



VILLA GRANDE

Domestic Water Improvement District

Note: All meeting minutes are posted for informational purposes only. The board of directors does not ratify meeting minutes until the next scheduled board meeting.

Minutes

November 14, 2024 • Regular Meeting

Call to Order: Bernie Vargas called the meeting to order at 7:06 pm.

Directors Roll Call: Present were Bernie Vargas, Allen Grant, Cauy Washburn, Terry Eickstaedt, and Ray Roerdink.

Discussion/Action Minutes: The Regular Meeting Minutes of 10/10/24. A motion was made by Terry Eickstaedt to approve and ratify the minutes for the Regular Meeting Minutes held on 10/10/24 as written and seconded by Cauy Washburn. Vote unanimous 5-0. Motion carried.

Call to the audience: None present to address the board.

Discussion/Action: ADEQ/Nitrate Treatment System. Currently we are waiting for AdEdge to come back. Doug Craver from AdEdge was here today for about 6 hours. Jack was going to meet him but couldn't be on site for the entire time. Doug was updating the program and stayed for the day and made sure all functions were correct. They also have a couple of minor updates they need to do as well. Joni was notified yesterday that AdEdge would be shipping some parts from Endress Houser for the nitrate sensor. They would be shipping them to the house and will provide tracking information when they ship. AdEdge said they will be installing and replacing those parts themselves once they are delivered and they return to the site.

Doug Craver said they have been waiting on the updated water quality for Villa Grande to provide the new calculations that Jasmina, engineer for ADEQ, was needing and the confirmation if a softener is needed. This did take several weeks to receive the water reports. All the samples were taken at the same time but processed at different times. WIFA paid for them.

Doug was talking with Jack Cook and said he would have a person on site next to do some program updates. During this call he asked about the updated water quality and Jack provided him the data for both Well 1 and Well 2. In looking at these he was stunned since the water quality was far worse than the water quality they were provided back in 2019 when they were finishing the design.

Well 2 should not be used because the water quality has an Iron level that is 3 mg/l. Jack confirmed he felt it was possible. When he checked the pre-filters, he found they were plugging within 1 to 2 days and that is due to the high turbidity and Iron from Well 2. He said it's only rated for 12 GPM so he's shut it off and only plans to use this in an emergency right now.

Of more concern was Well 1 which is the 150 GPM and primary well the site uses. The water quality is again far worse with the TDS reported over 2,100 mg/l versus 860 mg/l we had five years ago. Sulfate levels of 674 mg/l versus 270 mg/l, Hardness at 1300 mg/l. This hardness is way off the scale and will be difficult to even soften. We did not have hardness on the Site Profile form but we had a New Source analysis in our file which showed 220 mg/l of Hardness so this level of hardness didn't need a softener.

Doug was bringing all this up since he needs to run new projections for the system to confirm the regeneration frequency and volume of waste brine that will be discharged to the evaporation ponds. Doug is going to project now the waste volumes will be 2-3 times the original calculations they provided in 2019 so the evaporation ponds will fill much faster. In addition, this high TDS and Anion (a negatively charged ion) levels cause other issues with IX resins so we may see more leakage as well.

He will provide the updated calculations to VGDWID and WestLand before providing them to ADEQ. He was going to meet with his team over some of the information and start discussing answers to address the issues. He may need to chat with all involved to assure everyone is on the same page as we start providing the answers to ADEQ.

One question he had on Well 1 was there any rehab work done on this well since 2019. He's seen well waters changing but not to this degree and this fast. He asked if the well was deepened or other work was done. He was wondering if that affected the water quality. Joni and Dina had a conversation and told him nothing has been done to Well 1 since 2019. Doug said he has never seen such drastic changes in a five-year period.

Per the ADEQ list, they want AdEdge to provide a proposal to add a water softener so Doug Craver stopped by the site and took more photos for his team so they would know how to best interface the softener into the current set-up. He also went through the regeneration sequence again with Jack and the noticed a couple final items they need to update in the program so AdEdge is having an internal call and setting up another site visit. That should be the final visit. They will be providing a proposal shortly for the softener and associated components need to add it to the system. Doug should have the updated calculations next week or so and will share them when he gets them. Joni was told ADEQ was aware that we may need a water softener. Joni told them, we do not have the means to pay for that. Joni was at the well site while ADEQ was there and spoke to Jason Bobko and discussed additional items and funding those things such as new labs, etc. Joni told him we didn't have the funds to pay for those tests. Jason stated they weren't going to get 98 or 99% completed and not help us. That is why they paid for all the new labs. Doug said there is money available and that they were going to try and get a grant that would pay for it. But they want the proposal from AdEdge first to see the cost to tie it in. So, we are waiting on them for the proposal.

Discussion/Action: Well #1. We didn't have any issues with Well #1.

Discussion/Action: Well #2. We did have any issue with Well #2. The pipe came apart and Jack is going to repair it and will get the cost for the repair. (The Directors were provided pictures of the pipe and the water loss). We have no way of knowing how much we lost because it didn't go through the flow meter. We will have to estimate it. We also had one booster pump go out and that has been repaired.

Discussion/Action: Generator Maintenance Update. Terry Eickstaedt reported to Joni that the generator has 570.4 hours on it. The oil is good. The fuel tank was just below 5/8 full. All other levels look good. There were no bees at the site.

Discussion/Action: Permits for Water Service. Joni hasn't had the time to get to this. She has been backed up with other issues with WestLand, leaks, etc. during this past month to get to it.

Discussion/Action: Managers Report. Joni Roerdink reported the following:

- Water bills were sent out on 11/2/24. Final notices were sent on 11/2/24.
- Disconnects were scheduled for 11/12/24. There were no disconnects. Past Due Amount: \$1,607.05 with 16 past due customers.

Discussion/Action: Equipment & Site Report/Lab Tests.

- Coliform sample came back absent.
- The nitrate sample Jack took prior to start up came back at 19.1 mg/L.

Discussion/Action: Meters/Installations/Reinstallations/Leaks/Repairs.

- We had an emergency repair across the canal. As you may have noticed, the water loss went way up for September but went down drastically after the repair. It looks like it may have been leaking for a couple of months but really became obvious last month when Cauy noticed it.
- We do have a new customer signed up for service. A new dual service line and meter were installed and was prepaid.

Discussion/Action: Approve and Ratify Expenditures & Purchases. The Board reviewed the Expenditures and Purchases as submitted for October 2024. Cauy Washburn made a motion to approve and ratify the expenditures and purchases as written. Terry Eickstaedt seconded the motion. Vote unanimous 5-0. Motion carried.

Adjournment: The agenda being completed; Bernie Vargas adjourned the meeting at 7:34pm.

Date: _____

Bernie Vargas

Allen Grant

Ray Roerdink

Cauy Washburn

Terry Eickstaedt