

**MINUTES**  
**ENOCH CITY WATER BOARD**  
**September 10, 2020 at 4:30pm**  
**City Council Chambers**  
**City Offices, 900 E. Midvalley Road**

**MEMBERS PRESENT:** Larry Gardner, Doug Grimshaw, Alan Miller & Steve Woolsey. Spencer Jones was absent.

**STAFF PRESENT:** Rob Dotson, Julie Watson, Director Hayden White and Council Member David Harris

**PUBLIC PRESENT:** Derek Nelson. On Zoom: Val Kofoed, Ryan Blanchard and Mike Jessop

1. **CALL TO ORDER OF REGULAR MEETING-**By Chairman Gardner at 4:30 pm.
  - a. **Pledge of Allegiance** –Led by Chairman Gardner
  - b. **Invocation** –Audience invited to participate. Given by Steve Woolsey
  - c. **Approval of agenda for Sept. 10, 2020** –**Alan Miller made a motion to approve the agenda. Motion was seconded by Doug Grimshaw and all voted in favor.**
  - d. **Approval of minutes for July 9, 2020-**Steve Woolsey made a motion to approve the minutes. Motion was seconded by Alan Miller and all voted in favor.
  - e. **Conflict of Interest Declaration-**none stated

2. **PRESENTATION ON RESULTS OF WATER SEARCH-**Ryan Blanchard of Willowstick will review the results of their survey for good water sources.

City Manager Dotson said you have seen some of Willowstick’s work before. They were given a contract to do some surveying for the City. State Code allows us to protect the information we receive from them so others who are also searching for water do not get the jump on us. They will share some information in this public meeting but we will not state exactly where they are referring to for that reason. We do that when talking about buying water or wells. In City Council it is discussed in closed meetings and we disclose publicly when the deals are completed but it is protected during negotiations. We don’t invite others to compete against us for water.

Mike Jessop said this work was conducted in July. They did ten days of field work collecting the data around the City. Then they really studied it and he will show how the science works. He gave details of how water can flow through cracks and fissures. He said what we are looking at are the initially proposed areas that look good. They based some information on old drilling logs. The main mechanism for water movement is where faulting has bisected the volcanic rock at depth. Volcanic faults or fracture zones are what they are searching for. Stage 1 was to use the radio metric gamma system. There were property access issues so they went in to where access was available like BLM roads. Water blocks gamma radiation. They tracked the rock for drill targets. In the ten days in the field they generated a lot of information but could only qualify part of the sites. They found 36 qualified targets. He explained the map on the screen showing the dips and different formations saying they went for the big ones marked as A, B, and C as Stage 1 prospects for drilling. They want to confirm where we have weak rock or fracture zones before drilling and that is in the next stage. A & C were the best ones. The area is 300 meters wide and runs from the southeast end to the northwest. He gave more details about how

their equipment works and its variances. When you go back and really target these spots you can get 3D locations and use a higher precision GPS. That takes more time. The goal is to be in the middle of the fracture zone. They are confident they have identified a number of good targets in this study. He went through several of them shown on the map. They used RAP passive seismic and gamma to find the sites. There is a really high potential to be able to yield water. He gave many details of how they did the search. They compared their work to other old well logs and studies to prove the data of fractured volcanic rock. He discussed the dipping structures on the slides. They were correlating with past work that had been done and confirming it.

City Manager Dotson showed some 3-D maps used to figure out where the best targets are located. A lot of the prospects have not been tested and some were ruled out. Others were qualified targets. Steve asked how long they have been doing this type of work and about previous jobs and results. Mike Jessop said they are all about trying to pinpoint drill for the best water. He told about some past successful examples. City Manager Dotson said we have 36 prospects for seeking out water and having this data gets us closer.

Alan said his recommendation would be for the City to narrow in on the locations then have Willowstick come back and do more precise work to confirm a target out of the 36 to focus on. Alan said water is likely to be in fault zones and asked, if you drill there is that the best thing to do in case the fault moves? City Manager Dotson said he asked about that also when they did a hydro study. What if there is movement? He added movement is rare and it is minimal and not worth worrying about. In fault lines the water quality is better and they are relatively safe. The City Council will get a different view in a closed meeting and the Water Board could be invited to that meeting. City Manager Dotson said we need to stay closer to our existing system due to the cost to pipe it to be able to get the water into our system. We will have Willowstick do more studies to choose the best site instead of punching holes everywhere. We will test the most promising areas and really look at doing it correctly for the long term benefit. Currently we are working with existing wells. Long term we want to find more water elsewhere.

There was more discussion of areas of concern such as impacting other nearby wells. They have located spots like that and are far enough away and that they will not affect other's wells. There was more discussion among the Water Board about other studies that were referred to in this presentation. Willowstick used UGS and other studies to start their work on the ground here. Steve asked what the next stage is. Mike Jessop said it would use more precise equipment to get 3D dimensions instead of just one gamma line through the area. If you want to increase precision around the targets you do that before drilling. City Manager Dotson thanked Mike and Willowstick and they signed off.

Doug said he would like to be in the closed City Council meeting. City Manager Dotson said if anything is divulged outside of that meeting you can be prosecuted. Alan said we have been looking at existing wells and asked what is going on with them. City Manager Dotson said we will continue to do that. Farmers decide they don't want to farm anymore and those wells can come to the City and that is always in the plan. We are also looking at surface water and how to use that. Alan asked what long term means. City Manager Dotson said 5 to 10 years. The Groundwater Management Plan (GMP) is 70 years out. City Manager Dotson explained how we have to do and redo studies due to growth. When we do things like this we are thinking 10 to 15 years down the road. Doug said we talked about isotope testing. Did anything come of that? City Manager Dotson said we have tested from nine different areas. We have found they are different water. The isotope testing tests for age and movement of water. The bench and the other side of the graben are different water. Steve asked where the better water is. The Iron Works area along the bench is the best quality water. City Manager Dotson said. There is a plume of nitrates coming out of Fiddlers Canyon and some goes into the south end of Enoch. City Manager Dotson said we will invite the Water Board for the Oct 7<sup>th</sup> City Council meeting reminding them it is

confidential. Alan asked if that meeting will be to prioritize. City Manager Dotson said no, it is to let the City Council know what they got for the money from Willowstick. No action was required.

**3. PUBLIC COMMENTS-none**

**4. BOARD/STAFF REPORTS**

Hayden White said we have a power outage tonight. The tanks are full right now. He will shut off the pumps.

City Manager Dotson said we are going to need a water rate change. The City Council will discuss that and a proposal by staff for a base rate change. We need revenue above breaking even. We have not talked about it much yet in City Council meeting. In these Water Board meetings we have talked in the past and compared our rates to others and we are the lowest in the area. When it comes to the need to do more maintenance and things we don't have the money. We use impact fee money to buy wells but it is not for maintenance. We are not making enough money and need to make a profit. City Manager Dotson said the Little Eden well behind Earl's house is pumping 500 GPM and will irrigate the school and church. We will save 4 million gallons per month off of the culinary system. They discussed how it will work. We will get a tank for that water at some time. A property owner has offered an easement to get the water to the school and church. We hope to add Old Enoch Park and the cemetery in the future. We are finalizing the purchase of a well this week. By this time next year we will have a 1.5 million gallons extra based on our projects. We are trying to pull our green spaces off of the culinary system and are working to that end. We are talking to many other well owners. The GMP is still pending due to culture changes with not holding public meetings. The public comment period is closed. The West Desert Water project is doing an EIS right now. As a partner we are participating.

**5. ADJOURN-Doug Grimshaw made a motion to adjourn. Motion was seconded by Alan Miller and all voted in favor.** The meeting ended at 5:47 pm.

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**Julie Watson, Recorder**                      **Date**