

The meeting was held in the Water District Office and was called to order by Chairman H. C. Ziegler at 7:30 p.m. Board Members present were Richard McNulty, Pete Place and Don Vaughan. Also present were Dave Leland, Dave Phelps and Mel Dainwood of the State Health Department, Vance Hubbard, Dist. Supt., Tim Holsti, Bill Finney, and Carol Quinn, Dist. Clerk.

The purpose of the meeting was to discuss the options presented in the Water Study Report with regard to improving the quality of the water served to customers of the District through filtration or deep wells.

Mr. Leland summarized what has happened to bring the District to this position; During the Summer of 1982 there was a positive test for coliform bacteria and a case of Giardiasis had been confirmed. At the end of September the State Health Dept. recommended the District increase chlorination and flush the lines. At the end of October the EPA ran Giardiasis tests on the water. In early November (about the 5th) EPA reported finding presence of giardia lamblia cyst in the water. At that time a boil water order was issued from November 6 to the 16th; then it was lifted. There were 15 confirmed cases of giardia in the District, mostly of residents, but a couple of employees who work within the District area but live elsewhere were also infected. At the end of April, 1983, the District received a Water Study Report which offered several alternatives as a solution.

Further research by Don Vaughan concerning deep wells verified that that alternative was probably conservative in cost and in the depth requirement. He was able to find only one well in the Columbia Basalt and that was not producing very well.

Mr. Leland informed the Board that they feel that the increased chlorination is an interim measure and is not a satisfactory permanent solution. He also noted that shallow wells would require chlorination, but deep wells would not. Deep wells go through a protective rock layer while shallow wells like those in the Troutdale formation. He did note that no more cases of giardia have been reported since the chlorination has been increased. There are different levels of requirements in watersheds that are open or closed to public use. However, that would not take care of giardia since it comes from many animals as well as humans. Portland uses an unfiltered chlorination water supply. Their turbidity level is somewhat lower. Mr. Leland commended the job that Mr. Hubbard is doing and was impressed with his work and knowledge of the Water System.

Mr. Phelps informed the Board of some different ways to fund such a project, loans, grants, and combinations of both. He noted that in one grant program water and sewer projects are taking about 35 per cent of the total money available. He said in applying for a grant it was necessary to have more than a project concept in mind. There must be specific plans as the competition is extremely tough, although most water projects approved have to do with water quality not system improvements. The State Health Dept. would give their support to such a grant application and they are also part of the group who assist the people awarding the grants among all the applicants. Most applications have been for system improvements. There is a plan which is a grant and loan option combination, for every loan dollar, there are three dollars of grant. A health hazard and a below median income level would be helpful on the grant application, however a high income level in the community could disqualify the application. Our area has a fairly high income level. There are 100 per cent loan programs available and the District could issue bonds to finance the project. It would take about 40 hours to fill out a grant application. The County would have to apply in our behalf for certain ones.

For now the concensus is to continue monitoring and start looking and planning for some funds; hold some type of public meeting informing them what the situation is and what the alternatives are and what the costs will be. The men from the State

Health Division would come to such a meeting to answer questions if the Board would like them to. Mr. Leland thought it would be good to send some type of quarterly notification to customers with their bills.

Mr. Leland said they would support a plan that would close off the water shed to the public if the Forest Service would agree to such a request by the District. They also noted that shallow wells are better than open water shed even though they would also have to be chlorinated. Disinfecting isn't 100 per cent effective. Regarding the filtration system, dirty water is easier to filter than clean water. Corbett's water would be harder to filter because it is both clean and very cold. Mr. Leland said he would like to see some progress in the direction of one of the alternatives. He had been quite concerned at the outset of the problems, but feels so far that the measures taken have been satisfactory as a temporary solution. He said the filtration plant would be complicated to run, but felt that Mr. Hubbard would have no problem learning it.

Mr. Place moved that the Board accept the preliminary draft of the Auditors Report with the corrections indicated. Mr. McNulty seconded. Passed.

Carol announced that Mt. Hood Security Bank invited the Board to attend an open house celebrating 5 years in business on Thursday, Dec. 22, 1983.

Meeting was adjourned at 9:00 p.m.