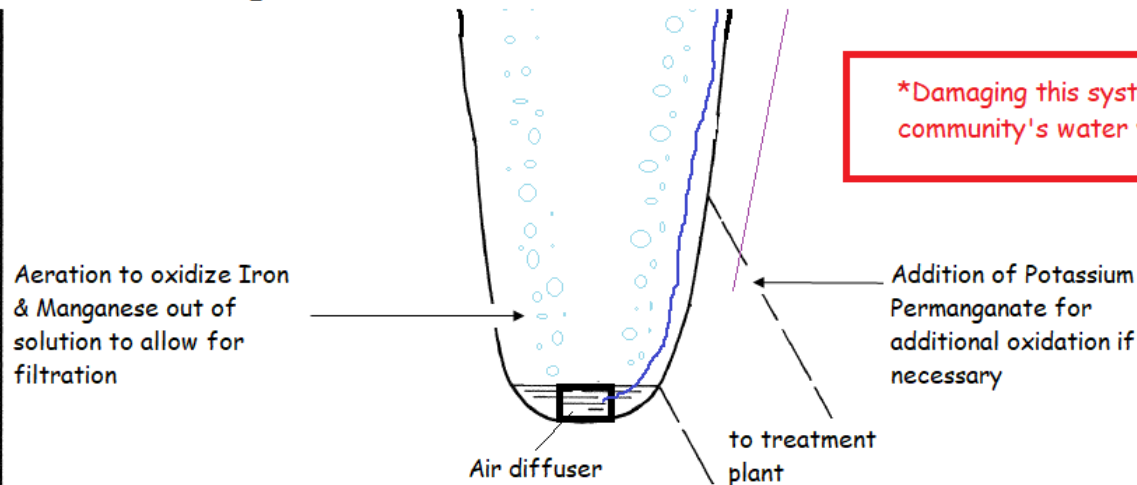


General explanation of Aeration in Chesbro Reservoir



*Damaging this system may turn the community's water yellow due to manganese.

*There are multiple aeration diffusers set up around the water plant's intake pipe to add air to the water to oxidize dissolved iron and manganese out of solution to allow them to be removed through the filtration process. The diffusers are fed from compressors on the fenced in area on the shore. Fencing and buoys were installed to protect the aeration lines and diffusers. Iron and manganese is naturally present in the soil and dissolves into solution. Also, periodic reservoir turnover due to temperature changes in the reservoir sometimes stirs up the waters, requiring careful monitoring and treatment by staff.

36" STEEL