

30 March 1983

From: Utilities System Operator General Foreman  
To: Director, Utilities Branch

Subj: Inadequate Raw Water Supply at Tarawa Terrace and Camp Johnson

1. Based on the flows for the months of April thru October 1982, the water treatment plants at Tarawa Terrace and Camp Johnson could very well be unable to satisfy the demand during the summer of this year due to steady decrease in well yield.

2. The Tarawa Terrace plant has a capacity of 1 M.G.D., an average daily demand in excess of 1 M.G.D., and an original seven well fields with a capacity of 1.5 M.G.D.

3. The Camp Johnson plant has a capacity of .750 M.G.D., and average daily demand of .275 M.G.D. and seven well fields with an original capacity of 1 M.G.D. over a period of twenty five years, the wells at Camp Johnson and Tarawa Terrace have gradually decreased in yield to a point that an additional well was drilled and put into operation in April 1982 with a capacity of 100 G.P.M. at Tarawa Terrace. This brought the raw water capacity back up to 1 M.G.D. which is still insufficient to satisfy the daily demand thru the summer months. an additional well is under construction but will not be put in operation before August and possibly later.

4. Three of the seven wells at Camp Johnson are down and awaiting contracts to repair. The four remaining wells are producing approximately .5 M.G.D. with one having 5 P.P.M. iron and should not be used except in emergency.

5. The two systems are joined together with a six inch line. Normally, we can pump from Camp Johnson to Tarawa Terrace at a rate of two hundred gallons per minute during peak demand periods, but at the present time with three wells out Camp Johnson cannot supply very much to Tarawa Terrace. Several of these wells have been chemically cleaned and had sand removed numerous times receiving a slight increase capacity. When the original wells were drilled, they had capacity ranging up to 350 G.P.M. but now we can barely get 150 G.P.M. from a new well in the area.

6. If these pumps continue to operate on a continuous basis without periodic rest periods, they will be subject to failure. as over-production is one of the leading causes for well failure.

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