

In reply  
refer to:

OFFICE OF THE POST MEDICAL INSPECTOR  
STATION HOSPITAL

TSC:ml

721.5

Fort Huachuca, Arizona,  
3 January, 1944.

**SUBJECT:** Monthly Sanitary Report.

**TO :** The Commanding Officer, Fort Huachuca, Arizona.  
Thru: The Director, Medical Division.

1. In compliance with par. 1c, AR 40-275, as amended by Section III, War Department Circular No. 114, dated June 13, 1941 and letter, The Surgeon General, file 721.5 subject as above, and War Department Circular Letter No. 76, file SPMCA, dated July 27, 1942, the following report on sanitary conditions of the command for the month of December, 1943 is submitted:

a. ENVIRONMENTAL SANITATION

(1) General:

Environmental sanitation during the past month was satisfactory.

(2) Water Supply:

(a) Adequacy of Supply: Water supply during December was adequate. As usual in this season most of the flow was from the deep wells.

(b) Consumption data: (Potable Water)

In spite of the fact that a large number of buildings were not occupied during more than half of the month, the per capita consumption continued at approximately the same level as previously. This would indicate that the high usage or wastage of water is spread over the entire camp and not confined to any particular area.

Average daily consumption	1.6 m.g.d.
Minimum daily consumption	1.0 m.g.d.
Maximum daily consumption	2.4 m.g.d.
Average per capita per day	115 gal.

(c) Bacteriology:

(1) Raw water before chlorination: The samples taken from springs continue to be mostly non-potable while those from the wells are potable.

Source of Sample	Non Potable	Questionable	Potable
Springs	1	3	0
Wells	7	0	1
Total	8	3	1

(2) Chlorinated water from Distribution System:

Samples taken from all parts of the distribution system were satisfactory.

Sources of Sample	Potable	Non-Potable
Old Post	7	0
Civilian Housing	1	0
Cantonment	24	0
Total	32	0

- (d) Chlorine residual: Chlorine residuals during the month were lower than normal in the cantonment area. This was probably due to the fact that a greater part of the area was not occupied so that the water stood for long periods in the mains after chlorination.

PPM Chlorine residual: Max. 0.7, Min. 0.05, Aver. 0.31

- (e) Treatment for hardness: During the past month equipment has been installed at three of the wells to supply a solution of sodium hexametaphosphate in order to prevent deposits of scale in hot water heaters, piping, and other equipment. It is expected that after about another month all water used by the Post will be treated by this method. This should result in considerable increased efficiency of hot water boilers, sterilizers, etc.

(3) Sewage Treatment:

- (a) General: All sewage was treated during the month. Efficiency of both plants was very good. In the case of Plant No. 2, this was partially due to the greatly lowered flows during the large portion of the month.
- (b) Flows treated: Post-chlorination of the sewage effluent was discontinued during the month. It is believed that this will result in no ill effects since the effluent normally seeps into the ground or evaporates before it reaches a flowing stream or approaches a human habitation.

	Plant No. 1	Plant No. 2
Average rate	0.56 m.g.d.	0.54 m.g.d.
Maximum rate	1.44 m.g.d.	1.96 m.g.d.
Minimum rate	0.06 m.g.d.	0.11 m.g.d.

(c) Efficiency of treatment: (Monthly Average)

	Plant No. 1		Plant No. 2	
	Susp. Solids	B.O.D.	Susp Solids	B.O.D.
Raw Sewage	223	164	159	206
Primary Effluent	39	26	29	27
Reduction	82%	84%	82%	87%

(4) MILK:

- (a) General: Milk from both the Post Dairy and the dairy in Tucson was satisfactory during the month.
- (b) Post Dairy: Milk from the Post Dairy showed low bacterial counts and low phosphatase units during the month. Sanitary conditions at the dairy plant were greatly improved, due to completion of most of the necessary construction items and to the cold weather which effectively discouraged the flies.
- (c) Milk purchased from commercial dairy: All samples taken from this source during the month were satisfactory. Quantity delivered and refrigeration in transit adequate.

(5) Garbage and Waste Disposal:

- (a) Garbage: Quantity of garbage per capita during December increased slightly over November due partially to the holiday season. The plan of collection by contractors directly from the messes has been discontinued. Disposal of garbage by burying and the sale to contractors at the garbage pits is satisfactory.
- (b) Combustible Waste: One of the two post incinerators is still out of repair and a considerable portion of the waste has been burned on an adjacent dump creating an unsatisfactory condition. Unless the incinerator is repaired immediately, it is probable that ~~it~~ <sup>trouble</sup> will result with the incinerator now in use, due to overloading.

(6) Insect and Rodent Control:

- (a) Mosquitoes: Mosquitoes were not present in the camp during the past month.
- (b) Roaches: Some progress was made during the past month in the elimination of roaches from barracks and mess halls. The authorized issue of insecticide continues to be too low to permit adequate control.

- (c) Bedbugs: No buildings were fumigated during the past month but approximately twenty buildings are listed for fumigation as soon as possible.
- (d) Rodents: There was no rodent problem at this Post.
- (7) Food Supply: Food supplies during the past month were adequate although the issue of pork was greater than desired. For detailed report see Supplementary Report No. 1.
- (8) Other phases of environmental sanitation; Housing, drainage, and environmental sanitation were generally satisfactory during the month. During the last week of the month it was necessary to turn off all heat in the barracks for several days due to shortage of gas in the area. It is anticipated that this situation may continue during at least a portion of January.
- b. PERSONAL HYGIENE: Personal hygiene of troops at this station continue at the usual level. For detailed report see Supplementary Report No. 2.
- c. ACUTE COMMUNICABLE DISEASES: In common with the rest of the country this Post has had a large increase in the cases of upper respiratory diseases. Most of these respond to treatment after a few days in the hospital. For listing of communicable diseases see Supplementary Report No. 3.
- d. MONTHLY VETERINARY SANITARY REPORT:  
See Supplementary Report No. 4.
- e. ADMINISTRATIVE MEASURES AND DEVICES:  
None.
- f. RECOMMENDATIONS:  
None.

  
THOMAS S. CASSEDY,  
Capt., Sanitary Corps,  
Post Medical Inspector.

Incls: MD Form 95-49  
Sup. Reports Nos. 1, 2, 3, & 4.