

(NREA) FYI
JWW

BASE MAINTENANCE DIVISION
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/FEC/rm
11330
16 Dec 1982

From: Director, Utilities Branch
To: Base Maintenance Officer

Subj: Safe Drinking Water Act Monitoring Requirements,
iron contamination problem

Ref: (a) NREAD ltr 11000 of 1 Dec 1982

1. As noted in the reference, several water treatment plants are having problems with high iron levels. The following outlines the problems and planned corrective action regarding the five plants noted by the reference:

a. Camp Johnson Water Treatment Plant, M-178 - This plant consistently exceeds the limits for iron. No effective means of iron removal are available at this plant. Present plans call for demolition of this plant with water to be provided from the expanded Holcomb Boulevard Water Plant (MILCON Project P-785). This project is presently programmed for FY-85. No additional corrective action is planned at this time. Reduction of the iron level would require considerable construction costs.

b. Onslow Beach Water Treatment Plant, BA-138 - This plant has only exceeded the maximum iron level during two of the last 49 weeks (sampled once per week). This is not considered a serious problem. On occasion, we have experienced problems with the plant aerator. A new air compressor recently installed should improve iron removal at this plant.

c. MCAS(H) Water Treatment Plant, AS-110 - This plant has only exceeded the maximum iron level six of the last 49 weeks. Normally, the iron level was exceeded when sampling coincided with problems with the lime supply. A project is presently under design to provide a new lime storage and handling system.

d. Rifle Range Water Treatment Plant, RR-85 - This plant has exceeded the maximum iron level during 11 of the last 49 weeks. The backwash flow for this plant has been throttled back to prevent rupture of the filters (two of the three original filters have already ruptured). A repair project is under design to replace filters and softeners in this plant.

e. Courthouse Bay Water Treatment Plant, BB-190 - This plant has experienced problems with the backwash valve that have prevented proper backwashing of filters. This valve has been repaired. A repair project is under design to replace filters and softeners in this plant.

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2. The latest iron sample results for these plants are provided below
(maximum level .30 ppm):

<u>Plant</u>	<u>Iron</u>
M-178	.42 (exceeds limit)
BA-138	.09
AS-110	.16
RR-85	.14
BB-190	.28

3. No additional treatment is recommended for any of the five plants. It is our opinion that projects already identified will alleviate the iron problem.

F. E. Cone
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