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LAWRENCE, KANSAS

October 14, 1942

Dr. F. C. Allen
Director of Physical Education
Robinson Gymnasium
Campus

Dear Dr. Allen:

At the request of your department I made an inspection today of the swimming pool and of the filtration and purification equipment.

The water in the pool was turbid and gave off a considerable odor. The odor can be described as a combination chlorine and mouldy odor. The odor is caused, I believe, by the organic matter present in the water. The increase in the number of persons using the pool has placed a load on the filtration equipment that it cannot treat the water properly under the present conditions of operation.

Most of the analyses have shown this water to be of satisfactory bacteriological quality, but the physical quality of the water is poor. In order to improve the physical quality I am listing some suggestions below. Because of the limited capacity of the recirculating pump and the filter it may be necessary to drain the pool once each two or three weeks. The pump now in use can recirculate all of the water once each twenty-four hours if kept in operation continuously. The suggestions follow:

- (1) Drain the pool and start again with clean water.
- (2) Examine the filter to be sure that the ingredients are properly graded and the required depth. The gravel should be 18" deep and the sand 18" to 24" deep. The sand should have an effective size between 0.35 and 0.50 mm. and a uniformity coefficient between 1.25 and 1.80.