

REPORT OF WATER ANALYSIS—CITY OF Lawrence

Laboratory No. ....	421606		
Source .....	East End	West End	
Collected by .....	Kissell		
Date of collection .....	4-16-42		
Date received .....	4-16-42		
Analysis completed .....	4-18-42		
<b>BACTERIAL EXAMINATION *</b>			
Bacteria per cc. on Agar, at 37°—24 hrs. ....	8	5	
Presumptive Tests for Coli-Aerogenes Group Results of Fermentation Tests:	-	-	
in 5 10 cc. tubes .....	5-	5-	
in 3 1 cc. tubes .....	3-	3-	
in 3 .1 cc. tubes .....	3-	3-	
in 3 .01 cc. tubes .....			
in 3 .001 cc. tubes .....			
Confirmatory Tests for Coli-Aerogenes Group			
<b>CHEMICAL ANALYSIS</b> Results in parts per million.			
Color .....			
Odor .....			
Turbidity .....	under 1	under 1	
5 day B. O. D. ....			
Nitrogen as Nitrites .....			
Nitrogen as Nitrates .....			
Solids, total .....			
Special .....			
Special .....			
<b>MINERAL ANALYSIS</b>			
HCO <sub>3</sub> (Bicarbonate) .....	38	34	
CO <sub>3</sub> (Carbonate) .....			
OH (Hydroxide) .....		87	
Cl (Chlorides) .....			
Fe (Iron) .....			
Special .....			
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\* Gas in the fermentation tubes and confirmatory test indicate the presence of bacterial organisms of the Coli-Aerogenes group. These organisms inhabit the intestinal tract of warm-blooded animals, hence their presence in water shows sewage contamination or pollution from surface drainage. Plus sign, gas present. Minus sign, gas absent.

One part per million is equivalent to 1 pound of substance per million pounds of water. One gallon weighs 8.33 pounds. 17.1 parts per million=1 grain per gallon.