

May 15, 1954

Dr. Melvin L. Levine  
Honolulu Office

Dear Mel:

Thank you very much for the Well 1 water analysis.  
I compared the sum of the equivalents of the anion with the  
sum of the cations and they did not agree. What anions  
could have mixed?

Sincerely,

W. W. Aldrich

WWA/mn

AIR MAIL

INTER-OFFICE CORRESPONDENCE

HONOLULU OFFICE

MS  
5-13

May 11, 1954

RECEIVED  
MAY 13 1954  
Ans'd \_\_\_\_\_

Mr. W. W. Aldrich  
Lanai Office

Dear Bill:

The three samples of water from Well No. 1, as mentioned in your teletype to George Felton, No. 14, dated April 13, 1954, have been received and analyzed. The accompanying table gives the results of the analysis.

We will be expecting the additional samples at the end of the 1954 pumping period, presumably some time next fall. Would you inform Mr. C. H. Wells directly at the time those samples are being sent?

If there is other information which you would like relative to these samples we would be glad to do what we can to furnish it.

Sincerely,

  
Melvin L. Levine

cc: NEW  
WLT  
CHW

encl.

Analysis of Water from Lanai Well No. 1

<u>Sample received</u>	4-21-54	4-26-54	5-4-54	<u>Av</u>
Calcium (Ca) <sup>40.8</sup>	51	66	50 <sup>161</sup>	56 ✓
Magnesium (Mg)	106	162	136 <sup>160</sup>	135 ✓
Sodium (Na)	95	100	85 <sup>280</sup>	93 ✓
Boron (B)	13	23	27 <sup>63</sup>	21
Chloride (Cl)	311	446	394 <sup>151</sup>	384 ✓
Sulfate (SO <sub>4</sub> )	68	76	68 <sup>212</sup>	71 ✓
Bicarbonate (HCO <sub>3</sub> )	123	132	127 <sup>382</sup>	127 ✓
Phosphate (PO <sub>4</sub> )	4	1	0 <sup>5</sup>	2 ✓
pH	8.0	7.7	7.5 <sup>232</sup>	7.7

Cations

rc/5/11/54

Ca	56
Mg	135
Na	93
	<hr/>
	284

Me = 33%

Anions

Chlorides	1384
Sulphate	71
HCO <sub>3</sub>	127
	<hr/>
	1602
	<hr/>
	585

$\frac{384}{35} = 10$
$\frac{71}{48} = 2$
$\frac{127}{62} = 2$
<hr/>
14

Cl.  $\frac{56}{20} = 2.5$  equivalent

Mg  $\frac{135}{12} = 10$  "

Na  $\frac{93}{11} = 8$  "  


---

 20 "