December 23, 1970

Mr. H. Hayashi
District Engineer, Maui
Department of Transportation
P. O. Box 700
Wailuku, Hawaii

Dear Mr. Hayashi:

Maui Community College Well

Attached are the results of our chloride analyses of water samples taken during a 6-hour pumping test on the recently drilled Maui Community College well.

The pump test results show that the well is capable of yielding 300 gpm with an initial salinity of 415 parts per million chlorides (upper limit of potable water is 250 ppm) which is suitable for lawn irrigation (Mauna Kea Beach Hotel uses irrigation water of 650 ppm chlorides).

However, there is an indication that the salinity of the well water may increase under sustained pumping operations and it is therefore suggested that when the well is put into operation, the salinity be checked from time to time to monitor any possible significant trend.

Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

RTC: DL: js
enc.
cc: D. A. G. S.
<table>
<thead>
<tr>
<th>TIME</th>
<th>GPM</th>
<th>AIRLINE GAGE</th>
<th>DRAW DOWN NO.</th>
<th>C1- (ppm)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:55</td>
<td></td>
<td>STATIC WATER LEVEL - AIRLINE GAGE READING 36 FEET</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:00</td>
<td>164</td>
<td>37</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00</td>
<td>164</td>
<td>37</td>
<td>1.0</td>
<td>1</td>
<td>394</td>
</tr>
<tr>
<td>9:55</td>
<td>164</td>
<td>37</td>
<td>1.0</td>
<td>2</td>
<td>399</td>
</tr>
<tr>
<td>10:00</td>
<td>220</td>
<td>39.5</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>220</td>
<td>39.5</td>
<td>3.5</td>
<td>3</td>
<td>408</td>
</tr>
<tr>
<td>11:55</td>
<td>220</td>
<td>39.5</td>
<td>3.5</td>
<td>4</td>
<td>410</td>
</tr>
<tr>
<td>12:00</td>
<td>300</td>
<td>40.0</td>
<td>4.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td>300</td>
<td>40.0</td>
<td>4.0</td>
<td>5</td>
<td>415</td>
</tr>
<tr>
<td>2:00</td>
<td>300</td>
<td>40.0</td>
<td>4.0</td>
<td>6</td>
<td>417</td>
</tr>
<tr>
<td>2:01</td>
<td>385</td>
<td></td>
<td></td>
<td></td>
<td>chloride analysis by DOWARD</td>
</tr>
<tr>
<td>2:10</td>
<td></td>
<td>SHUTDOWN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:11</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td>IMMEDIATE RECOVERY</td>
</tr>
</tbody>
</table>
Dec. 9, 1970

Department of Land & Natural Resources
Division of Water & Land Development
P. O. Box 373
Honolulu, Hawaii 96809

Attention: Mr. Dan Lum

Gentlemen:

Subject: Physical Ed. Facilities, MOE D.A.G.S. Job Nos. 05-31-0479.2 & 05-31-0712.2

Transmitted for your kind review and analysis are the well test data and water samples obtained on Dec. 12, 1970.

Please forward your findings to this office.

Your kind cooperation is greatly appreciated.

Very truly yours,

H. Hayashi
District Engineer, Maui

enc.
cc: D.A.G.S.
December 23, 1970

Mr. H. Hayashi
District Engineer, Maui
Department of Transportation
P. O. Box 700
Wailuku, Hawaii

Dear Mr. Hayashi:

Maui Community College Well

Attached are the results of our chloride analyses of water samples taken during a 6-hour pumping test on the recently drilled Maui Community College well.

The pump test results show that the well is capable of yielding 300 gpm with an initial salinity of 415 parts per million chlorides (upper limit of potable water is 250 ppm) which is suitable for lawn irrigation (Mauna Kea Beach Hotel uses irrigation water of 650 ppm chlorides).

However, there is an indication that the salinity of the well water may increase under sustained pumping operations and it is therefore suggested that when the well is put into operation, the salinity be checked from time to time to monitor any possible significant trend.

Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

RTC:DL:js
enc.
cc:  D. A. G. S.
Mark Construction Inc.
Kahului, Maui 96732

October 16, 1970

SUBJECT: Physical Education Facilities and Site Development
Maui Community College, Kahului, Maui, Hawaii
D.A.G.S. Job Nos.: 05-31-0479.2 and 05-31-0712.2

Gentlemen:

Enclosed is a drilling log on the irrigation well which was drilled in accordance with plans and specifications.

After studying the log you will notice that the top seventeen feet (17') of good water bearing formation is cased off with solid casing and concrete plug. Before installation of the casing, the water tested thirty-eight (38) grains. After installing the casing and drilling the seventeen feet (17') of open hole it appears that the water is coming from near the bottom of the well or approximately sixty feet (60') below the surface and it tests at one hundred (100) grains.

I have been drilling water wells in the state for the past Fifteen (15) years and I find these specs really unusual because most specifications call for perforated casing in the water bearing zones and gravel packing. By the use of this method you pump the upper water as well as the lower and get better quality water.

I would recommend drilling a twelve inch (12") hole and installing eight inch (8") casing from top to bottom with perforated sections throughout the water bearing strata and gravel packing perforated sections.

If you examine the specifications and the plans you will find that they do not compare.

Please advise me if you need my services to develop a better quality water.

Thank you.

Very truly yours

Mark Construction Inc.
DRILL LOG

ELEVATION 37.15

SAND

DIRT

WATER LEVEL

DEPTH OF BORING

POROUS BLACK ROCK

VERY POROUS ROCK

HARD BLUE ROCK

VERY POROUS ROCK

HARD BLUE ROCK