Parshall Flume @ Tunnel and a reservoir probably responds to rain (not 100% direct flow) supplementation of Res. 675 Res. (to Parshall Flume) 27 ft.

Shaft has been drawn Makaha 3 milky water(?) too high rebarge on time rebarge limitations. lot of old M.4. III diff. of KB compartment

**Total Pumpage Request**: (3 wells):

- 468,000 gpd

*Total Makaha pumpage*:

- 1.5 → 2.0 mod of CY:3

**Makaha West Wells** (DU 1, 2, 3)

- Distance from shoreline = 7500 ft.
- Est. el. = 250'

<table>
<thead>
<tr>
<th>U.S. Calendar Year</th>
<th>Depth (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-03 MI</td>
<td>83</td>
</tr>
<tr>
<td>2013-02 Shaft</td>
<td></td>
</tr>
<tr>
<td>2014-02 MI</td>
<td>24.3</td>
</tr>
<tr>
<td>2812-03 QC1</td>
<td>38.13</td>
</tr>
<tr>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>
Charley:

I've added info on the attached applications. Irrigation will be on 117 turf acres. At an annual average of 4000 GPD/acre, the total would be 468,000 GPD or about 160,000 GPD from each well. In the driest months, irrigation will rise to about 6000 GPD/acre, equivalent to about 250,000 GPD per well. These figures are comparable to past water use on the pre-existing course.

Tom

On Fri, Apr 13, 2012 at 10:19 AM, <Charley.F.Ice@hawaii.gov> wrote:

When you get a chance today, please fill in amounts for projected daily pumpage and acres of turf to be irrigated - missing from WCPIA. I want to send the review up this aft if possible.

Tom Nance Water Resource Engineering
560 N. Nimitz Hwy. - Suite 213
Honolulu, Hawaii 96817

Tel: 808-537-1141 | Fax: 808-538-7757

12-14 makaha gc.pdf

Didn't realize I left those blank. I'll get the info to you as soon as possible.

Tom