Just spoke with Nance to confirm discussion we had with Ron Huffman at Coral Creek. Ron suggested that the cap be raised to 1500 ppm rather than a 1000 for their wells. Nance confirmed they could live with that and mix the WW. Their grass can handle 1500 ppm. Our samples from yesterday show that cl- are under 1000 even after 5 or so minutes of pumping. They shouldn't be pumping up to rates the cause the 3000 to 4000 ppm concentrations we've seen in the past.

Tom also clarified that lakes 1902-07 & 08 are NOT the water table as their elevations are several feet higher than the ground water levels and are simply retention basins. Given the Cl- concentrations we found around ~100 ppm and all the other sources are ~300 ppm seems like he is correct and we may have to remove these as well designations (another highlight of the importance of elevation surveys!).
Mr. Ron Huffman  
Coral Creek Golf Course, Inc.  
91-111 Geiger road  
Ewa Beach, HI 96706

Dear Mr. Huffman:

Well Completion Report for Well Nos. 1902-06 to 08, 2001-14 & 15, 2002-19 & 20

We received information to complete the Well Completion Reports on the following dates for the listed wells:

<table>
<thead>
<tr>
<th>Well No.</th>
<th>WCR I Data Submitted</th>
<th>WCR I Acceptance Date</th>
<th>WCR II* Data Submitted</th>
<th>WCR II* Acceptance Date</th>
</tr>
</thead>
</table>
| 1902-06 to 08  
2001-15  
2002-20 | June 8, 2001  
June 12, 2001  
| 2001-14 | May 30, 2001  
July 1, 2001  
| 2002-19 | May 30, 2001  
July 1, 2001  

WCR II only needed for 2002-19. Other sources are passive water features only.

The Well Completion Reports have been accepted as complete on the dates indicated above.

If you have any questions, please contact Lenore Nakama of the Commission staff at 587-0218.

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director

c. Tom Nance Water Resources Engineering
MEMORANDUM FOR THE RECORD

FROM: Lenore Nakama
SUBJECT: Completion dates for well construction & pump installation for 2002-19

Contacted Tom Nance, 7/3/01 regarding conflicting completion dates. He had previously verbally informed us that all lakes (1902-06 to 08, 2001-14 & 15, 2002-19 & 20) were constructed in 1999. However, WCR Part II, filed for 2002-19, showed the pump installation was completed on 8/25/98. Tom said that he spoke with the pump installer, Art Lambert of Goodfellow Bros., who was quite certain the pump went in in 1998. Tom is still unable to get a firm date on the lake constructions, but thinks they must have been constructed in late 1998 also. (These lakes were permitted as after-the-fact well constructions after the CWRM determined that the construction of a passive water feature (ie pond) that intercepts the ground water table is subject to the requirements for a well construction permit.)
MEMORANDUM

TO: Lenore Nakama
FROM: Tom Nance
SUBJECT: As-Built of Coral Creek Golf Course Lakes

In response to your phone request, the dimensions, area, and depths of the other Coral Creek golf course excavated lakes are shown below. I have also attached scaled drawings of each of these lakes. All of the sketches except the one for the lake at Holes 5, 6, & 7 (No. 2001-15) are as-built topography. The drawing for that lake is approximated from the original design drawing and field observations.

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Nearest Golf Holes</th>
<th>Dimensions (Feet)</th>
<th>Surface Area (Acres)</th>
<th>Average Depth (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1902-06</td>
<td>12, 13, &amp; 14</td>
<td>630 325</td>
<td>3.50</td>
<td>6</td>
</tr>
<tr>
<td>1902-07</td>
<td>15 &amp; 16 (Mauka)</td>
<td>210 100</td>
<td>0.32</td>
<td>3</td>
</tr>
<tr>
<td>1902-08</td>
<td>15 &amp; 16 (Makai)</td>
<td>240 75</td>
<td>0.30</td>
<td>2</td>
</tr>
<tr>
<td>2001-15</td>
<td>5, 6, &amp; 7</td>
<td>315 80</td>
<td>0.46</td>
<td>5</td>
</tr>
<tr>
<td>2002-20</td>
<td>2</td>
<td>195 80</td>
<td>0.26</td>
<td>5</td>
</tr>
</tbody>
</table>

cc: Ron Huffman
Attachments
Ground Water Lake "A"
Approximate Water Elevation = 1.4 ft.

LAKE 12, 13, & 14
C/N 2 (902-06)

Scale: 1" = 100'
LAKE 15 & 16
MAUNA
(NUM 1002-07)

Water

SCALE: 1" = 50'
MEMORANDUM

TO: Lenore Nakama
FROM: Tom Nance
SUBJECT: As-Built of Coral Creek Golf Course Lakes

In response to your phone request, the dimensions, area, and depths of the other Coral Creek golf course excavated lakes are shown below. I have also attached scaled drawings of each of these lakes. All of the sketches except the one for the lake at Holes 5, 6, & 7 (No. 2001-15) are as-built topography. The drawing for that lake is approximated from the original design drawing and field observations.

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Nearest Golf Holes</th>
<th>Dimensions (Feet)</th>
<th>Surface Area (Acres)</th>
<th>Average Depth (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1902-06</td>
<td>12, 13, &amp; 14</td>
<td>630 x 325</td>
<td>3.50</td>
<td>6</td>
</tr>
<tr>
<td>1902-07</td>
<td>15 &amp; 16 (Mauka)</td>
<td>210 x 100</td>
<td>0.32</td>
<td>3</td>
</tr>
<tr>
<td>1902-08</td>
<td>15 &amp; 16 (Makai)</td>
<td>240 x 75</td>
<td>0.30</td>
<td>2</td>
</tr>
<tr>
<td>2001-15</td>
<td>5, 6, &amp; 7</td>
<td>315 x 80</td>
<td>0.46</td>
<td>5</td>
</tr>
<tr>
<td>2002-20</td>
<td>2</td>
<td>195 x 80</td>
<td>0.26</td>
<td>5</td>
</tr>
</tbody>
</table>

cc: Ron Huffman
Attachments
Ms. Linnel T. Nishioka - Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Nishioka:

After-the-Fact Well Construction Permits for the Coral Creek Golf Course Drilled Wells and Excavated Lakes

In response to your May 29, 2001 letter and my subsequent discussion with Lenore Nakama of your staff, the one remaining item concerns the excavated lake at golf hole No. 10, identified as Well No. 2001-14. It is currently permitted as one of a battery of four wells that may be used to provide irrigation supply. The other three wells (Nos. 2002-15, 2002-17, and 2002-19) have pumps installed and are actively used. A pump has never been installed in Well 2001-14 (Lake 10) and the golf course has no current plans to do so.

We understand that the pump installation permit for Well 2001-14 has lapsed and that we would need to apply for a new permit if a pump is to be installed. Also, please note for your records that Hoolae Paoa is no longer associated with the golf course. The appropriate contact and address are:

Mr. Ronald Huffman
Coral Creek Golf Course, Inc.
91-111 Geiger Road
Ewa Beach, Hawaii 96706

I hope this completes the information that you used. Feel free to contact me if further clarification is required.

Sincerely,

Tom Nance

cc: Ron Huffman
May 29, 2001

Mr. Hoolae Paoa
Coral Creek Golf, Inc.
55 Merchant Street, Ste. 1810
Honolulu, HI 96813

Dear Mr. Paoa:

Notice of Expiration
After-the-Fact Well Construction Permits,
Well Nos. 1902-06 to 08, 2001-14 & 15, 2002-19 & 20
Puuloa Ground Water Management Area, Oahu

This is to notify you that the well construction permits for Well Nos. 1902-06 to 08, 2001-15, and 2002-19 & 20 expired on April 21, 2001. Except for Well No. 2001-14, these are dug wells that function as passive water features (lakes). After-the-fact permits were required per the Commission’s action on February 17, 1999. Although the after-the-fact permits for these sources required the submittal of well completion reports and as-built drawings, we are waiving the need to submit these documents. Instead, please provide the maximum width and length of the lakes and the average depths. You have already provided us with the surface area acreages.

The well construction permit and pump installation permit for Well No. 2001-14 expired on February 17, 2001. To satisfy the requirements of the well construction permit, please provide the maximum width and length of the lake and the average depth. Please complete and return Well Completion Report Part II for the pump installation.

Because the permits specified sixty days for the submittal of items required under Condition 7, please submit the requested information within the next thirty (30) days. Failure to do so may result in fines of up to $1,000 per day per violation.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

[Signature]

LINNEL T. NISHIOKA
Deputy Director

LN:ky
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management’s Administrative Rules, Section 13-168, entitled “Water Use, Wells, and Stream Diversion Works”, this document permits the construction and testing of Lake at Holes 12, 13, & 14 (Well No. 1902-06) at Geiger Road, Ewa, Oahu, TMK 9-1-69:11, subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basalt ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basalt ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

Timothy E. Johns, Chairperson
Commission on Water Resource Management

I hereby request your consent to the attached permit. The Chairperson of the Commission on Water Resource Management has returned the permit to the Commission.

The underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: 
Firm or Title: 
Date: 

Driller's Signature: 
C-57 License #: 
Date: 

Printed Name: 
Firm or Title: 

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

C: USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
AFTEOHE-FACT WELL CONSTRUCTION PERMIT
Lake at Holes 15 & 16 (Mauka), Well No. 1902-07

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Lake at Holes 15 & 16 (Mauka), (Well No. 1902-07) at Geiger Road, Ewa, Oahu, TMK 9-1-69:11, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee’s Signature: ___________ Date: 5/5/99
Printed Name: Firm or Title: Cane Creek
Driller’s Signature: ___________ Date: 5/5/99
Printed Name: Firm or Title: 

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment c: USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Lake at Holes 15 & 16 (Makai) (Well No. 1902-08) at Geiger Road, Ewa, Oahu, TMK 9-1-69:11, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/07) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997, HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: [Signature] Date: 5/1/99
Printed Name: [Name] Firm or Title: [Firm or Title]
Driller's Signature: [Signature] Date: 5/1/99
C-57 License #: [License Number] Date: [Date]
Printed Name: [Name] Firm or Title: [Firm or Title]

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
AFTEHE-FACT WELL CONSTRUCTION PERMIT
Lake at Holes 5, 6, & 7, Well No. 2001-15

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Lake at Holes 5, 6, & 7 (Well No. 2001-15) at Geiger Road, Ewa, Oahu, TMK 9-1-61:2, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of cumulative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ____________________________ Date: 5/16/99
Firm or Title: Comm Corp
Printed Name: ____________________________

Driller's Signature: ____________________________ Date: 5/16/99
C-57 License #: ____________________________
Printed Name: ____________________________
Firm or Title: Paradise Bros., Inc.

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment
c: USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
AFTEOHE-FACT WELL CONSTRUCTION PERMIT
Lake at Hole 2, Well No. 2002-20

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Lake at Hole 2 (Well No. 2002-20) at Geiger Road, Ewa, Oahu, TMK 9-1-69:10, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/87) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Chairperson if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation of fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ____________________________ Date: ________________
Printed Name: ____________________________ Firm or Title: ____________________________
Driller's Signature: ____________________________ C-57 License #: ________________ Date: ________________
Printed Name: ____________________________ Firm or Title: ____________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Mr. Hoolae Paoa  
Coral Creek Golf, Inc.  
55 Merchant St., Suite 1810  
Honolulu, Hawaii 96813

Dear Mr. Paoa:

After-the-Fact Well Construction Permit  
Lake at Holes 12, 13, & 14 (Well No. 1902-06)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:

**Special Conditions**

1. Attached for your information is a copy of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.

2. Standard Condition 2 is waived.

3. Standard Conditions 7.b. and 7.e. are waived.

4. The remaining items under Standard Condition 7 shall be submitted within sixty (60) days.

This permit does not authorize work for a permanent pump installation. Approval and issuance of a pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call the Commission staff at 587-0218.

Aloha,

[Signature]

for TIMOTHY E. JOHNS  
Chairperson

Enclosures
AFTER THE FACT WELL CONSTRUCTION PERMIT
Lake at Holes 12, 13, & 14, Well No. 1902-06

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management’s Administrative Rules, Section 13-168, entitled “Water Use, Wells, and Stream Diversion Works”, this document permits the construction and testing of Lake at Holes 12, 13, & 14 (Well No. 1902-06) at Geiger Road, Ewa, Oahu, TMK 9-1-69:11, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department’s Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997, HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used, it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: __________________________ Date: __________________

Printed Name: __________________________ Firm or Title: __________________________

Driller's Signature: __________________________ C-57 License #: __________________________ Date: __________________
Printed Name: __________________________ Firm or Title: __________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

C: USGS
Department of Health’s Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Mr. Hoolae Paoa
Coral Creek Golf, Inc.
55 Merchant St., Suite 1810
Honolulu, Hawaii 96813

Dear Mr. Paoa:

After-the-Fact Well Construction Permit
Lake at Holes 15 & 16 (Mauka), (Well No. 1902-07)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 13:

Special Conditions

1. Attached for your information is a copy of the Department of Health’s (DOH) review comments. Please note DOH’s requirements related to discharge of effluent from well drilling and testing activities.

2. Standard Condition 2 is waived.

3. Standard Conditions 7.b. and 7.e. are waived.

4. The remaining items under Standard Condition 7 shall be submitted within sixty (60) days.

This permit does not authorize work for a permanent pump installation. Approval and issuance of a pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call the Commission staff at 587-0218.

Aloha,

[Signature]

Timothy E. Johns
Chairperson

Enclosures
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules. Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Lake at Holes 15 & 16 (Mauka), Well No. 1902-07 at Geiger Road, Ewa, Oahu, TMK 9-1-69:11, subject to the Hawaii Well Construction & Pump Installation Standards (l/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the permittee, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ________________________________ Date: ________________

Printed Name: ________________________________ Firm or Title: ________________________________

Driller's Signature: ________________________________ C-57 License #: ________________ Date: ________________

Printed Name: ________________________________ Firm or Title: ________________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment:
   c: USGS Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
      Honolulu Board of Water Supply
Mr. Hoolae Paoa  
Coral Creek Golf, Inc.  
55 Merchant St., Suite 1810  
Honolulu, Hawaii 96813

Dear Mr. Paoa:

After-the-Fact Well Construction Permit  
Lake at Holes 15 & 16 (Makai), (Well No. 1902-08)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:

Special Conditions

1. Attached for your information is a copy of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.

2. Standard Condition 2 is waived.

3. Standard Conditions 7.b. and 7.e. are waived.

4. The remaining items under Standard Condition 7 shall be submitted within sixty (60) days.

This permit does not authorize work for a permanent pump installation. Approval and issuance of a pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call the Commission staff at 587-0218.

Aloha,

[Signature]

for: TIMOTHY E. JOHNS  
Chairperson

Enclosures
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules. Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Lake at Holes 15 & 16 (Makai) (Well No. 1902-08) at Geiger Road, Ewa, Oahu, TMK 9-1-69:11, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: _______________________________ Date: _______________

Printed Name: _______________________________ Firm or Title: _______________________________

Driller's Signature: _______________________________ C-57 License #: _______________ Date: _______________

Printed Name: _______________________________ Firm or Title: _______________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment
c: USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Mr. Hoolae Paoa  
Coral Creek Golf, Inc.  
55 Merchant St., Suite 1810  
Honolulu, Hawaii 96813  

Dear Mr. Paoa:  

After-the-Fact Well Construction Permit  
Lake at Holes 5, 6, & 7 (Well No. 2001-15)  

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:  

Special Conditions  

1. Attached for your information is a copy of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.  

2. Standard Condition 2 is waived.  

3. Standard Conditions 7.b. and 7.e. are waived.  

4. The remaining items under Standard Condition 7 shall be submitted within sixty (60) days.  

This permit does not authorize work for a permanent pump installation. Approval and issuance of a pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit.  

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.  

Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.  

If you have any questions, please call the Commission staff at 587-0218.  

Aloha,  

Timothy E. Johns  
Chairperson  

Enclosures
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversions," this document permits the construction and testing of Lake at Holes 5, 6, & 7 (Well No. 2001-15) at Geiger Road, Ewa, Oahu, TMK 9-1-61:2, subject to the Hawaii Well Construction & Pump Installation Standards (12/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168.15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ___________________________ Date: __________
Printed Name: ___________________________ Firm or Title: ______________
Driller's Signature: ___________________________ C-57 License #: __________ Date: __________
Printed Name: ___________________________ Firm or Title: ______________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment c
USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Mr. Hoolae Paoa  
Coral Creek Golf, Inc.  
55 Merchant St., Suite 1810  
Honolulu, Hawaii 96813  

Dear Mr. Paoa:

After-the-Fact Well Construction Permit  
Lake at Hole 2 (Well No. 2002-20)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:

Special Conditions

1. Attached for your information is a copy of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.

2. Standard Condition 2 is waived.

3. Standard Conditions 7.b. and 7.e. are waived.

4. The remaining items under Standard Condition 7 shall be submitted within sixty (60) days.

This permit does not authorize work for a permanent pump installation. Approval and issuance of a pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call the Commission staff at 587-0218.

Aloha,

[Signature]

TIMOTHY E. JOHNS  
Chairperson

Enclosures
AFTE-HE-FACr WELL CONSTRUCTION PERMIT
Lake at Hole 2, Well No. 2002-20

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Lake at Hole 2 (Well No. 2002-20) at Geiger Road, Ewa, Oahu, TMK 9-1-89:10, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (692-8015) immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997: HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 21, 1999
Expiration Date: April 21, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ___________________________ Date: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

Driller's Signature: ___________________________ C-57 License #: ___________________________ Date: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment:

USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management

SUBJECT: After-the-Fact Well Construction Permit Applications  
Well Nos. 2002-20, 2001-15, 1902-06 to 08

Transmitted for your review and comment is a copy of the captioned well applications.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 26, 1999.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at 587-0218.

LN:ss
Attachment(s)

RESPONSE:

[] This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[] For the applicant's information, a source of possible wastewater contamination [ ] is not located near the proposed well site (information attached).

[] Other relevant DOH rules/regulations, information, or recommendations are attached.

[] No comments/objections

Contact Person: Lori N. Kajiwara  
Phone: 808-4294

Signed: Lori N. Kajiwara  
Date: 4-16-99
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management  

SUBJECT: After-the-Fact Well Construction Permit Applications  
Well Nos. 2002-20, 2001-15, 1902-06 to 08

Transmitted for your review and comment is a copy of the captioned well applications.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 26, 1999.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at 587-0218.

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached).

Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: William Wong  
Phone: 586-4258  
Signed: William Wong  
Date: 04/13/99
The Department of Health, Clean Water Branch has the following comments:

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Chapter 11-55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (808) 586-4352.

2. For Well Pump Testing

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering state waters. Such measures shall include, if necessary, containment of the initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the discharger must obtain written permission from the owner of that storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.

JS/cr
Dear Mr. Paoa:

After-the-Fact Well Construction Permit Applications for Well Nos. 2002-20, 2001-15, 1902-06 to 08

We acknowledge receipt, on March 5, 1999, of your completed well construction permit applications for the Lakes at Holes 2; 5, 6, & 7; 12, 13, & 14; 15 & 16 (Mauka); and 15 & 16 (Makai) (Well Nos. 2002-20, 2001-15, 1902-06 to 08). You can expect your applications to be processed within ninety (90) days from this date.

If you have any questions about your permit applications, please contact Lenore Nakama of the Commission staff at 587-0218.

Sincerely,

[Signature]
EDWIN T. SAKODA
Acting Deputy Director

LN:ss
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management

SUBJECT: After-the-Fact Well Construction Permit Applications  
Well Nos. 2002-20, 2001-15, 1902-06 to 08

Transmitted for your review and comment is a copy of the captioned well applications.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 26, 1999.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at 587-0218.

LN:ss
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination [ ] is not located near the proposed well site (information attached).

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] No comments/objections

Contact Person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
<table>
<thead>
<tr>
<th>F</th>
<th>YR</th>
<th>APP</th>
<th>D</th>
<th>SRC/ CTR</th>
<th>COST</th>
<th>PROJECT</th>
<th>PH</th>
<th>ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>00</td>
<td>000</td>
<td>C</td>
<td>10200752</td>
<td>125.00</td>
<td>Coral Creek Golf, Inc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>00</td>
<td>000</td>
<td>C</td>
<td>10200752</td>
<td>50.00</td>
<td>Coral Creek Golf, Inc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>00</td>
<td>000</td>
<td>C</td>
<td>10200752</td>
<td>25.00</td>
<td>Oasis Water Systems, Inc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>00</td>
<td>000</td>
<td>C</td>
<td>10200752</td>
<td>25.00</td>
<td>Oasis Water Systems, Inc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL</td>
<td>225.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REMARKS:
LINE (1) Well No. 2002-20, 2001-15, 1902-00 to 08
LINE (2) Well No. 1902-05 & 2002-18
LINE (3) Well No. 1221-04
LINE (4) Well No. 1222-04

Pay To The Order Of Dept. of Land and Natural Resources $125.00

One Hundred twenty five and 0/100 Dollars

First Hawaiian Bank

Main Banking Center
Honolulu, Hawaii
MEMORANDUM

TO: Hoolae Paoa
FROM: Tom Nance
SUBJECT: Completion of Permit Applications Required by the Commission on Water Resource Management (CWRM)

Enclosed are the seven permit applications that are required to comply with decisions made by the CWRM at its February 17th meeting. Five of the applications are for lakes that have been excavated into groundwater but from which no pumping will occur. These need your signature as Applicant and Landowner and Goodfellow's signature as the Contractor. The other two applications are to seal Well Nos. 3 and 5, circulation wells that will not be used. You need to sign these as Applicant and Landowner. We already have Roscoe Moss' signature as the Contractor.

When all applications are signed, they need to be submitted with two copies each and a $25 filing fee for each application. The transmittal should also point out the revised areas for the lakes which are now more accurately known from Thompson's as-built topo:

<table>
<thead>
<tr>
<th>Coral Creek Lake Sizes (in Acres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nearest Holes</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>(2002-19)</td>
</tr>
<tr>
<td>1 and 9</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>2001-15</td>
</tr>
<tr>
<td>5, 6, and 7</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>(2001-14)</td>
</tr>
<tr>
<td>12, 13, and 14</td>
</tr>
<tr>
<td>15 and 16 (Mauka)</td>
</tr>
<tr>
<td>15 and 16 (Makai)</td>
</tr>
</tbody>
</table>

Attachments
cc: Joe Livingood
APPLICATION FOR PERMIT

1. APPLICANT: (circle primary contact) b. or c)
   (a) WELL OWNER
     Firm/Name: Coral Creek Golf, Inc.
     Contact Person: Hoolae Paa
     Address: 55 Merchant Street - Suite 1810
     Honolulu, Hawaii 96813
   (b) LANDOWNER
     Firm/Name: Coral Creek Golf, Inc.
     Contact Person: Hoolae Paa
     Address: 55 Merchant Street - Suite 1810
     Honolulu, Hawaii 96813
   (c) CONTRACTOR
     Firm/Name: Goodfellow Bros., Inc.
     Contact Person: Ph. 682-3899
     Address: P.O. Box 700728 Kapolei, Hawaii 96709

2. WELL LOCATION/NAME: Lake at Hole 2
   Address: Geiger Road - Ewa Beach
   Tax Map Key: Island Oahu 9-1-69:10

3. (a) PROPOSED WORK:
   - Drill New Well
   - Redrill
   - Modify Existing Well
   - Install New Pump
   - Modify Pump
   - Abandon/Seal
   - Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

4. PROPOSED PUMP INFORMATION:
   - Type: None
   - Rated Pump Capacity: 0 gallons per minute
   - Motor: Electric, rated horsepower
   - Pump Type:
     - Deep Well Turbine
     - Rotary
     - Propeller
     - Submersible
     - Impulse
     - Radial
     - Rotary-Gear
   - Centrifugal
   - Flow-meter
   - Reciprocating
   - Not Applicable
   - If Pump Replacement, Existing Pump Capacity:
   - Gallons per minute

5. PROPOSED USE:
   - Municipal (including hotels, stores, etc.)
   - Industrial
   - Domestic (individual, noncommercial water sys.)
   - Dwelling Units
   - Irrigation (crop)
   - Military
   - Other: Passive Water Feature
   - Acres 0

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   - None gallons per day
   - (b) METHOD OF FLOW MEASUREMENT:
     - Flow-meter
     - Open-pipe
     - Orifice Plate
     - Weir
     - Not Applicable

7. PENDING ACTIONS:
   - CDUA
   - SMA
   - EIS
   - EA
   - None
   - Other (explain)
   - Completion Date: 2-17-99

8. REMARKS, EXPLANATIONS:
   - This passive water feature is an excavated exposure of groundwater in the Ewa limestone aquifer, built for aesthetics and as an integral part of regional drainage for the Kaloi Basin. The feature is 0.27 acres in size and 2 to 5 feet deep.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of compliance with rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Coral Creek Golf, Inc.
Landowner: Coral Creek Golf, Inc.
Contractor: Goodfellow Bros., Inc.

Signature: Date: 2-17-99
Signature: Date: 2-17-99
Signature: Date: 2-17-99

For Official Use Only:
Date Received
Date Accepted
Field Checked By
Date
Longitude
Latitude
State Well No. 2002-30

3 Jan 97 WCHR Form
8. Remarks, Explanations (cont'd):

**9. PROPOSED WELL SECTION**

*(NOT APPLICABLE)*

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>ft., msl</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Grout:</td>
<td>ft.</td>
</tr>
<tr>
<td>Rock Packing:</td>
<td>ft.</td>
</tr>
<tr>
<td>Hole Diameter:</td>
<td>in.</td>
</tr>
<tr>
<td>Total Depth</td>
<td>ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ground Elevation:</th>
<th>ft., msl</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Solid Casing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Length</td>
</tr>
<tr>
<td>Diameter</td>
</tr>
<tr>
<td>Wall thickness</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing:</th>
<th>Perforated</th>
<th>Screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>ft.</td>
<td></td>
</tr>
<tr>
<td>Diameter</td>
<td>in.</td>
<td></td>
</tr>
<tr>
<td>Wall thickness</td>
<td>in.</td>
<td></td>
</tr>
<tr>
<td>Openings</td>
<td>sq in./A.F.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Open Hole:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
</tr>
<tr>
<td>Diameter</td>
</tr>
</tbody>
</table>

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.*
APPLICATION FOR PERMIT

2-17-99

Well Construction [ ] or Pump Installation [ ]

97-4306

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. This application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission's Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact [a] b, or c)
   (a) WELL OWNER
   (b) LANDOWNER
   (c) CONTRACTOR

   Firm Name: Coral Creek Golf, Inc.
   Address: 55 Merchant Street - Suite 1810
   Honolulu, Hawaii 96813
   Contact Person: Hoolae Paoa
   PH: 528-1244
   Fax: 528-1514

   Firm Name: Coral Creek Golf, Inc.
   Address: 55 Merchant Street - Suite 1810
   Honolulu, Hawaii 96813
   Contact Person: Hoolae Paoa
   PH: 528-1244
   Fax: 528-1514

   Firm Name: Godfellow Bros., Inc.
   Address: P.O. Box 700728
   Kapolei, Hawaii 96709
   Contact Person: ___________
   PH: 682-3899
   Fax: 528-1244

   Contractor's License No.: ABC 7046

   (Please circle type: C-57, Gen.'C', or C-57a, Gen.'A')

2. WELL LOCATION/NAME: Lake at Holes 5, 6, & 7
   Island: Oahu
   Address: Geiger Road - Ewa Beach
   Tax Map Key: 9-1-61:2

   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK:
   - Drill New Well
   - Deepen
   - Install New Pump
   - Modify Existing Well
   - Redrill
   - Modify Pump
   - Abandon/Seal
   - Replace Pump

   * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   - Dug
   - Bored
   - Driven
   - Drilled
   - Radial
   - Is this well a part of a battery of wells? Yes
   - No

   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   - Rated Pump Capacity: None
   - Gallons per minute
   - If Pump Replacement, Existing Pump Capacity:
   - Gallons per minute
   - Motor:
     - Deep Well Turbine
     - Rotary
     - Submersible
     - Centrifugal
     - Other
   - Propeller
   - Rotary-Displacement
   - Reciprocating
   - Rotary-Gear
   - Impulse
   - Gas
   - Electric, rated horsepower:

5. PROPOSED USE:
   - Municipal (including hotels, stores, etc.)
   - Domestic (individual, noncommercial water sys.)
   - Irrigation (crop)
   - Military
   - Industrial
   - # Dwelling Units
   - # Acres
   - Other:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: None
   (b) METHOD OF FLOW MEASUREMENT:
       Flow-meter
       Not Applicable

7. PENDING ACTIONS:
   - CDUA
   - SMA
   - EIS
   - EA
   - NONE
   - Other (explain)

8. REMARKS, EXPLANATIONS:
   This passive water feature is an excavated exposure of groundwater in the Ewa limestone aquifer, built for aesthetics and as an integral part of regional drainage for the Kaloi Basin. The feature is 0.38 acres in size and 2 to 5 feet deep.

I understand that approval of this application attache(s) the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of conclusive water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Coral Creek Golf, Inc.
Landowner: Coral Creek Golf, Inc.
Contractor: Godfellow Bros., Inc.

Signature: __________________________
Date: 2-22-59

For Official Use Only
Date Received __________________________
Date Accepted __________________________
Field Checked By _______________________
Date __________________________

Latitude __________________________
Longitude __________________________
Aquifer System Name: __________________________
State Well No.: __________________________

3 Jan 97 WCPIA Form
8. Remarks, Explanations (cont'd):

9. PROPOSED WELL SECTION
(NOT APPLICABLE)

Elevation at top of casing
______ ft., msl

Ground Elevation: ________ ft., msl*

Cement Grout: ________ ft.

Solid Casing:
Material
Length ________ ft.
Diameter ________ in.
Wall thickness ________ in.

Rock Packing ________ ft.

Hole Diameter: ________ in.

Total Depth ________ ft.

Casing: [ ] Perforated [ ] Screen
Material
Length ________ ft.
Diameter ________ in.
Wall thickness ________ in.
Openings ________ sq. in. A.F.

Open Hole:
Length ________ ft.
Diameter ________ in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
APPLICATION FOR PERMIT

Well Construction or Pump Installation

2-17-99  97-4306

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. This application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, call the Commission’s Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact[a] b, or c) Primary Fax: 528-1514
   (a) WELL OWNER
   Firm/Name: Coral Creek Golf, Inc.
   Contact Person: Hooalea Paa
   Address: 55 Merchant Street - Suite 1810
   Honolulu, Hawaii 96813
   (b) LANDOWNER
   Firm/Name: Coral Creek Golf, Inc.
   Contact Person: Hooalea Paa
   Address: 55 Merchant Street - Suite 1810
   Honolulu, Hawaii 96813
   (c) CONTRACTOR
   Firm/Name: Goodfellow Bros., Inc.
   Contact Person: Paoa Ph
   Address: P. O. Box 700728
   Kapolei, Hawaii 96709

2. WELL LOCATION/NAME: Lake at Holes 12, 13, & 14
   Island: Oahu
   Tax Map Key: 9-1-69:11
   Address: Geiger Road - Ewa Beach

3. (a) PROPOSED WORK: [ ] Drill New Well  [ ] Modify Existing Well  [ ] Install New Pump
   [ ] Deepen  [ ] Redrill  [ ] Modify Pump
   [ ] Abandon/Seal *  [ ] Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   [ ] Dog  [ ] Bored  [ ] Driven  [ ] Radial
   Is this well a part of a battery of wells? [ ] Yes  [ ] No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION: Rated Pump Capacity: [ ] None  gallons per minute
   Pump Type:
   [ ] Deep Well Turbine  [ ] Rotary  [ ] Submersible
   [ ] Propeller  [ ] Reciprocating  [ ] Centrifugal
   Motor:
   [ ] Diesel  [ ] Gas
   Electrical:
   [ ] Electric, rated horsepower:
   If Pump Replacement, Existing Pump Capacity:  gallons per minute

5. PROPOSED USE:
   [ ] Municipal (including hotels, stores, etc.)
   [ ] Industrial
   [ ] Domestic (individual, noncommercial water sys.)
   [ ] Dwelling Units
   [ ] Irrigation (crop)
   # Acres
   [ ] Other: Passive Water Feature

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: [ ] None  gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   [ ] Flow-meter  [ ] Open-pipe  [ ] Orifice Plate
   Not Applicable

7. PENDING ACTIONS:
   [ ] DEA  [ ] SMA  [ ] EIS  [ ] EA  [ ] NONE  [ ] Other(explain)
   Completion Date: ___

8. REMARKS, EXPLANATIONS:
   This passive water feature is an excavated exposure of groundwater in the Ewa limestone aquifer, built for aesthetics and as an integral part of regional drainage for the Ko'olau Basin. The feature is 3.52 acres in size and to 5 feet deep.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permit work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner

Landowner

Contractor

Signature

Date

2-17-99

Signature

Date

2-17-99

Signature

Date

2-17-99

For Official Use Only:

Date Received

Date Accepted

Field Checked By

Date

Longitude

Latitude

Aquifer System Name

State Well No.

3 Jan 97 WCPIA Form
8. Remarks, Explanations (cont'd):

9. PROPOSED WELL SECTION
(NOT APPLICABLE)

Elevation at top of casing
__ ft., msl.

Cement Grout: __ ft.

Rock Packing: __ ft.

Ground Elevation: __ ft., msl*

Solid Casing:
Material
Length: __ ft.
Diameter: __ in.
Wall thickness: __ in.

Hole Diameter: __ in.

Casing: ☐ Perforated ☐ Screen
Material
Length: __ ft.
Diameter: __ in.
Wall thickness: __ in.
Openings: __ sq in./ft.

Total Depth: __ ft.

Open Hole:
Length: __ ft.
Diameter: __ in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
APPLICATION FOR PERMIT

Well Construction or □ Pump Installation

Well Construction

Date 2-17-99

97-4306

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. This application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission’s Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact[a], b, or c) Primary Fax: 528-1514
   (a) WELL OWNER
   Firm/Name Coral Creek Golf, Inc.
   Contact Person Hoolae Paoa
   Address 55 Merchand Street - Suite 1810
   Honolulu, Hawaii 96813
   (b) LANDOWNER
   Firm/Name Coral Creek Golf, Inc.
   Contact Person Hoolae Paoa
   Address 55 Merchand Street - Suite 1810
   Honolulu, Hawaii 96813
   (c) CONTRACTOR
   Firm/Name Goodfellow Bros., Inc.
   Contact Person __________________
   Address P.O. Box 700728 Kapolei, Hawaii 96709

2. WELL LOCATION/NAME:
   Lake at Holes 15 & 16 (Mauka)
   Address Geiger Road - Ewa Beach
   Tax Map Key Island Oahu
   9-1-69:11

Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"x24,000”), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK: □ Drill New Well □ Deepen □ Install New Pump
   □ Modify Existing Well □ Redrill □ Modify Pump
   □ Abandon/Seal * □ Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   □ Dug □ Bored □ Driven □ Drilled □ Radial
   □ Is this well a part of a battery of wells? □ Yes □ No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: None gallons per minute
   Pump Type:
   □ Deep Well Turbine □ Rotary □ Propeller
   □ Submersible □ Rotary-Displacement □ Reciprocating
   □ Centrifugal □ Rotary-Gear □ Impulse
   If Pump Replacement, Existing Pump Capacity: ____________________ gallons per minute
   Motor:
   □ Diesel □ Natural gas □ Electric, rated horsepower: ____________________

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.) □ Industrial
   □ Domestic (individual, noncommercial water sys.) # Dwellings
   □ Irrigation (crop) # Acres
   □ Military

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: None gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   □ Flow-meter □ Open-pipe □ Orifice Plate □ Weir
   Not Applicable

7. PENDING ACTIONS:
   □ CDUA □ SMA □ EIS □ EA
   □ NONE □ Other(explain)
   Completion Date: ____________________

8. REMARKS, EXPLANATIONS:
   This passive water feature is an excavated exposure of groundwater in the Ewa limestone aquifer, built for aesthetics and as an integral part of regional drainage for the Kaloli Basin. The feature is 0.32 acres in size and 2 to 5 feet deep.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of complete water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Coral Creek Golf, Inc.
Landowner: Coral Creek Golf, Inc.
Contractor: Goodfellow Bros., Inc.

Signature ___________________ Date 2/17/99

For Official Use Only:
Date Received ___________________ Field Checked By ___________________
Date Accepted ___________________ Longitude ___________________
Date ___________________ Latitude ___________________
Aquifer System Name ___________________
State Well No. ___________________

3 Jan 97 WCPIA Form
8. Remarks, Explanations (cont'd):

Elevation at top of casing

Cement Grout:

Rock Packing:

Hole Diameter:

Total Depth:

Ground Elevation:

Solid Casing:

Casing: □ Perforated □ Screen

Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
APPLICATION FOR PERMIT

1. APPLICANT: (circle primary contact [a] b, or c) Primary Fax: 528-1514
   (a) WELL OWNER
   Firm/Name: Coral Creek Golf, Inc. Contact Person: Hoolae Paoa
   Address: 55 Merchant Street - Suite 1810 Honolulu, Hawaii 96813
   (b) LANDOWNER
   Firm/Name: Coral Creek Golf, Inc. Contact Person: Hoolae Paoa
   Address: 55 Merchant Street - Suite 1810 Honolulu, Hawaii 96813
   (c) CONTRACTOR
   Firm/Name: Goodfellow Bros., Inc. Contact Person: Goodfellow Bros., Inc.
   Address: P.O. Box 700728 Kapolei, Hawaii 96709

2. WELL LOCATION NAME: Lake at Holes 15 & 16 (Makai) Island Oahu
   Address: Geiger Road - Ewa Beach
   Tax Map Key: 9-1-69:11

3. (a) PROPOSED WORK: • Drill New Well • Install New Pump
   • Modify Existing Well • Modify Pump
   • Abandon/Seal • Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:
   • Dug • Bored • Driven • Drilled • Radial
   Is this well a part of a battery of wells? • Yes • No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION: Rated Pump Capacity: None gallons per minute
   Pump Type: • Deep Well Turbine • Rotary • Driven • Centrifugal
   • Submersible • Rotary-Displacement • Rotary-Gear • Impulse
   Motor: • Diesel • Gas • Electric, rated horsepower:
   If Pump Replacement, Existing Pump Capacity: gallons per minute

5. PROPOSED USE:
   • Municipal (including hotels, stores, etc.) • Industrial
   • Domestic (individual, noncommercial water sys.) • Dwelling Units
   • Irrigation (crop) • # Acres
   • Military • # Other: Passive Water Feature

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: None gallons per day
   (b) METHOD OF FLOW MEASUREMENT: • Flow-meter • Open-pipe
   Not Applicable
   Completion Date: 

7. PENDING ACTIONS: • CDUA • SMA • EIS • EA
   • NONE • Other (explain)

8. REMARKS, EXPLANATIONS: This passive water feature is an excavated exposure of groundwater in the Ewa limestone aquifer, built for aesthetics and as an integral part of regional drainage for the Kaloi Basin. The feature is 0.28 acres in size and 2 to 5 feet deep.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of corrective water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Coral Creek Golf, Inc. Landowner: Coral Creek Golf, Inc. Contractor: Goodfellow Bros., Inc.

Signature: __________________________ Signature: __________________________ Signature: __________________________
Date: 2/17/99 Date: 2/17/99 Date: 2/17/99

For Official Use Only: Date Received __________________________ Date Accepted __________________________
Field Checked By __________________________ Date __________________________

Latitude __________________________ Longitude __________________________ Aquifer System Name: __________________________
State Well No. __________________________
8. Remarks, Explanations (cont'd):

9. PROPOSED WELL SECTION
(NOT APPLICABLE)

Elevation at top of casing
______ ft, msl.

Cement Grout: ________ ft.

Rock Packing: ________ ft.

Hole Diameter: ________ in.

Ground Elevation: ________ ft, msl.

Solid Casing:
Material
Length
Diameter
Wall thickness

Casing: □ Perforated □ Screen
Material
Length
Diameter
Wall thickness
Openings ________ sq in./ft.

Open Hole:
Length
Diameter

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.