February 13, 2009

John Scardino
Woodlands Ventures, LLC
31200 Via Colinas, Suite 200
Westlake Village, California 91362

SUBJECT: January 2009 Ground Water Elevation Monitoring Report for The Woodlands Development, Nipomo Mesa, San Luis Obispo County, California

Dear Mr. Scardino:

This report documents the monitoring of water levels at eleven wells in the vicinity of The Woodlands project and at the six wells on The Woodlands property. The monitoring program is being performed to enable compliance with Mitigation Measure 4.1-6d of the Woodlands Specific Plan Environmental Impact Report (1998):

"Prior to approval of discretionary development (e.g. prior to recordation of the final map, Development Plan approval), the applicant shall conduct a complete survey of wells that could be affected by cumulative water level interference. The applicant shall then implement means to allow for continued production of these wells under drought conditions to the satisfaction of the County Engineer."

Monitoring Report Summary

Cleath-Harris Geologists (CHG) conducted a private domestic well survey between March and May 2000 and has been monitoring water levels in selected offsite wells and in The Woodlands wells on a monthly basis since March 1999. Well locations are shown on Figure 1. There are 17 wells currently being monitored.

Water level monitoring results show no evidence of significant water-level impacts to offsite wells from ground water production in the four producing onsite wells. Observed water level fluctuations and declines are related to seasonal changes in precipitation and regional well pumping. Regional pumping appears to be heavy north of Camino Caballo.

Long term water level trends have been identified in the shallow aquifer wells. Water levels in wells along Via Concha north of The Woodlands have steadily risen since the end of 2005. Water levels in the Banneker Place and Eucalyptus Road wells southeast of The Woodlands have been dropping since spring 2006.
CHG recommends the following:

- In order to reduce cumulative impacts of pumping north of Camino Caballo, the Homestead well should be utilized again as the primary production well as soon as is practical, and the Dawn well should be pumped minimally.

- Abandon the Highway 1 monitoring well.

- Installation of a casing liner and filter pack in the Flintcote well to ensure the continued monitoring of the well in the event of failure of the old steel casing.

Onsite Well Monitoring

Four of the onsite wells were constructed as production wells for the project, with the Highway 1 Monitoring well and the Flintcote well utilized as monitoring wells only. The Highway 1 Monitoring well was installed prior to the production wells to identify the aquifer zones beneath the site, evaluate water quality in these zones, and to determine general design parameters for the production wells. The Flintcote well was drilled in 1944, and the five Woodlands project wells were drilled in 1993 and 1994.

Currently, ground water production is occurring at three of the four production wells. The Homestead well has not been in production since August 2007, because of discharge piping and electrical problems. The Mesa well is the primary production well; however, according to Mike Wentzel of Fluid Resource Management of San Luis Obispo, the Homestead well will eventually be the primary supply well and the Mesa well will serve as its backup well. The Highway 1 well is configured for golf course irrigation. The Dawn well will not be pumped significantly after the Homestead well becomes the primary well again.

After test discharges of treated wastewater in the Spring of 2007, consistent wastewater discharges began in September 2007. The effluent is pumped into Pond D where it is blended with water produced from the Highway 1 well and occasionally the Mesa well, and then the water is available for spray irrigation onto golf course turf. According to Fluid Resource Management, approximately 8 million gallons (24 acre feet) of treated wastewater were discharged to the ponds during 2008. Total potable water production from the four onsite wells in 2008 was 545 acre feet. Well production volumes from the four wells for 2008 are included in the table below.
Table 1
Woodlands 2008 Water Usage Summary
Volumes in acre-feet

<table>
<thead>
<tr>
<th>Month</th>
<th>Dawn</th>
<th>Homestead</th>
<th>Mesa</th>
<th>Highway 1</th>
<th>Total</th>
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<tr>
<td>January</td>
<td>10.0</td>
<td>0.1</td>
<td>0.8</td>
<td>0.1</td>
<td>11.0</td>
</tr>
<tr>
<td>February</td>
<td>0.8</td>
<td>0.0</td>
<td>14.0</td>
<td>8.6</td>
<td>23.4</td>
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<td>March</td>
<td>10.9</td>
<td>0.0</td>
<td>16.6</td>
<td>9.0</td>
<td>36.5</td>
</tr>
<tr>
<td>April</td>
<td>7.5</td>
<td>0.5</td>
<td>27.6</td>
<td>9.2</td>
<td>44.8</td>
</tr>
<tr>
<td>May</td>
<td>4.8</td>
<td>0.0</td>
<td>5.4</td>
<td>14.3</td>
<td>24.5</td>
</tr>
<tr>
<td>June</td>
<td>18.1</td>
<td>0.1</td>
<td>21.3</td>
<td>17.4</td>
<td>56.9</td>
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<td>July</td>
<td>13.3</td>
<td>0.3</td>
<td>13.5</td>
<td>27.3</td>
<td>42.6</td>
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<tr>
<td>August</td>
<td>29.6</td>
<td>0.0</td>
<td>0.6</td>
<td>2.0</td>
<td>54.4</td>
</tr>
<tr>
<td>September</td>
<td>1.3</td>
<td>0.0</td>
<td>36.7</td>
<td>12.9</td>
<td>32.2</td>
</tr>
<tr>
<td>October</td>
<td>4.1</td>
<td>0.1</td>
<td>30.2</td>
<td>17.3</td>
<td>50.9</td>
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<tr>
<td>November</td>
<td>3.8</td>
<td>0.0</td>
<td>18.0</td>
<td>12.7</td>
<td>51.7</td>
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<tr>
<td>December</td>
<td>0.7</td>
<td>0.0</td>
<td>24.5</td>
<td>0.0</td>
<td>34.5</td>
</tr>
<tr>
<td>Total</td>
<td>137</td>
<td>19</td>
<td>242</td>
<td>147</td>
<td>545</td>
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</table>

Data from Fluid Resource Management

Ground water elevations for the onsite wells and monthly precipitation are shown on Figure 2. The water level data tables are available upon request. Seasonal water level fluctuations have ranged between approximately 20 feet and 45 feet in the six onsite wells during the nearly 10 years of monitoring. Since 2002, the range of seasonal fluctuation has increased in each of the wells because of higher pumping rates during the dry seasons as compared to the wet seasons. The slightly declining average water levels indicated in the hydrograph from the year 1999 through 2005 is a result of changing climatic conditions in the area during that period. Pumping at the Homestead well beginning in spring 2003, and Mesa, Dawn, and Highway 1 wells beginning in spring 2004 resulted in additional water level declines. From winter 2004 to the fall of 2006 average water levels were stable because of higher than normal precipitation amounts during the winter of 2004 - 2005, and the late winter and spring precipitation in 2006. Average water levels have decreased slightly during and following the below-normal precipitation amounts in the winter of 2006 – 2007.

Water levels in the onsite wells were 26 feet to 28 feet higher in winter 2009 than in summer 2008, representing a typical seasonal water level fluctuation for the wells. Water levels were two to five feet lower in January 2009 than in January 2008 in the Flinns and Homestead wells respectively, and were seven feet lower in the Mesa well. The lower water levels in the Mesa well in January 2009 compared to January 2008 reflects the increased pumping at the well during 2008. Water levels in the Dawn well were eight feet higher in January 2009 than in January 2008, and correspond with
decreased pumping during the late fall of 2008 in the well.

The slightly higher average water levels measured during 1999 and 2000 of the monitoring program reflect the higher than normal precipitation of the mid and late 1990s. Average to below average annual precipitation occurred from the year 2000 through the winter of 2003 - 2004, and precipitation was significantly below average during the winter of 2006 - 2007. Historically, water levels generally drop from February through September of each year, after which they recover and rise.

**Offsite Well Monitoring**

Wells 9K4, 15G1, 10N, and 22H are currently used as domestic supply wells to single-family homes and are pumped on a regular basis. Wells 10K, 10Q, 14N, and 22G have been inactive since monitoring began. Well 10R2 is used for irrigation supply and has a history of frequent pumping. Well 10F is unequipped. Well 15B4, is equipped, but inactive, and is located on a property planned for development. Well 10R1 was abandoned in January 2007, and well 10R3 is no longer accessible. The 11 offsite wells are listed in Table 2.

Ground water elevations for the offsite wells are shown on Figures 3, 4, and 5. The water level data tables are available upon request. Water levels in wells 9K4, 10F, 10N, 10R2, 15B4, and 15G1 have shown the greatest amount of seasonal fluctuation of all the monitored off-site wells, fluctuating 27 feet to 31 feet between the 2008 dry and wet seasons. The fluctuation in well 14N, penetrating mixed aquifers, was 13 feet. Water levels in wells 9K4, 10F, 10R2, 14N, 15B4, and 15G1, all penetrating the deeper aquifer or mixed aquifers, were about one foot to seven feet lower in January 2009, compared to January 2008. Water levels in well 10N (mixed aquifers) were the same in January 2009 as they were in January 2008. Declines in wet season water levels have been greatest in well 15G1, having steadily dropped 26 feet since monitoring began in 2000.

Hydrographs of wells 22G, 22H, 10K, and 10Q are relatively flat, compared to hydrographs of all the other wells which fluctuate in response to regional pumping. This data, and the relatively high water levels suggest that these wells have been completed within the unconfined dune sand aquifer, whereas other offsite and onsite wells were either completed within a deeper, confined aquifer, or completed within portions of both aquifers. Table 3 shows the aquifers penetrated by the offsite and onsite wells.

Long term water level trends in these shallow aquifer wells indicate that water levels in the Via Concha area north of The Woodlands, as represented by wells 10K and 10Q, have risen about one foot since the end of 2005. Water levels in Banneker Place and Eucalyptus Road, as represented by wells 22G and 22H, have dropped about one foot since spring 2006.
Ground Water Movement

Estimated confined aquifer ground water flow directions and hydraulic gradients on The Woodlands property are shown in Figure 1. Ground water during January 2009 is inferred to flow generally to the north beneath the site at an estimated average hydraulic gradient of 0.00183 vertical feet of head loss per horizontal foot of distance. Wells used for the confined aquifer hydraulic gradient calculations represent the same or similar hydraulic pressure zones. Five onsite wells were used to calculate the hydraulic gradient for the January 2009 monitoring event. The Highway 1 Monitoring well is completed within multiple pressure zones and therefore is not used in gradient calculations.

Conclusions and Recommendations

Mitigation Measure 4.1-6d of the project EIR requires that the applicant shall implement means to allow for continued production of offsite wells that have been significantly affected by well interference from The Woodlands project. Monthly water level monitoring allows early detection of wells most vulnerable to well interference during drought, and will allow for the mitigation of potentially significant water-level impacts before they occur.

There are 17 wells currently being monitored. There are six onsite wells and a total of 11 offsite wells in the program. Based on observed water levels, there are two principal groups of aquifer zones being tapped by the various wells: shallow aquifers (unconfined) and deep aquifers (confined). Table 3 shows the aquifers penetrated by each well in The Woodlands monitoring program.

Water level monitoring results show no evidence of significant water-level impacts to offsite wells from ground water production in the four producing onsite wells. Observed water level fluctuations and declines are related to seasonal changes in precipitation and regional well pumping. Regional pumping appears to be heavy north of Camino Caballo. In order to reduce cumulative impacts of pumping in this area and on wells such as 10N, 10R2, 15B4, and 15G1 during low rainfall periods, the Homestead well should be utilized again as the primary production well as soon as is practical, and the Dawn well should be pumped minimally.

CHG recommends the following:

- Abandonment of the Highway 1 monitoring well. The well was installed prior to the production wells to identify the aquifer zones beneath the site, evaluate water quality in these zones, and to determine general design parameters for the production wells. Because the well is completed across multiple aquifer zones, water levels do not compare well with other wells on the site that are completed within the deep zones only. The well should be abandoned in accordance with Department of Water Resources Water Well Standards, Section 23, Requirements for Destroying Wells.
• Installation of a casing liner and filter pack in the Flintcote well to ensure the continued monitoring of the well in the event of failure of the old steel casing.

• Bring the Homestead well back on line as the primary supply well while reducing pumpage at the Dawn Road and Mesa wells.

Water level data sheets including depths to ground water, ground water elevations, and changes in water levels for each well are available upon request. If you have any questions regarding this letter report, please call our office.

Sincerely,

[Signature]

David R. Williams
Associate Geologist

Cc. Tom Whalen
Figure 1
Onsite Ground Water Elevation Contours on December 16, 2008 for Confined Aquifer Zones

The Woodlands
Cleath-Harris Geologists
January 2009
Figure 2
Water Levels: March 1999 to January 2009
The Woodlands Onsite Wells

Elevation in feet above sea level
Rainfall in Inches

Mesa — Dawn — Hwy1pro — Homestead — Flintcote — Hwy1mon — Monthly Rainfall

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# Table 2
## Woodlands Offsite Wells

<table>
<thead>
<tr>
<th>Well Number</th>
<th>Reference Point</th>
<th>Total depth (in feet)</th>
<th>Well Type</th>
<th>Well Status</th>
<th>Date Monitoring Began</th>
<th>Drillers</th>
<th>Year Drilled</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11N/35W-14N</td>
<td>Top of sounding tube (271.2)</td>
<td>--</td>
<td>Irrigation</td>
<td>Equipped, inactive</td>
<td>Nov-00</td>
<td>Floyd V. Wells</td>
<td>1975</td>
<td>--</td>
</tr>
<tr>
<td>11N/35W-10F</td>
<td>Steel plate on top of casing (277.9)</td>
<td>600</td>
<td>School supply &amp; Irrigation</td>
<td>Unequipped</td>
<td>Dec-02</td>
<td>Enloe Well Drilling</td>
<td>2002</td>
<td>Cascading water enters well at approximately 206 feet depth</td>
</tr>
<tr>
<td>11N/35W-10N</td>
<td>Top of casing (246.0)</td>
<td>360</td>
<td>Domestic</td>
<td>Active</td>
<td>Oct-00</td>
<td>Floyd V. Wells</td>
<td>1981</td>
<td>Discontinued Feb-01, Resumed monitoring in Nov-04</td>
</tr>
<tr>
<td>11N/35W-22G</td>
<td>Top of casing (279.8)</td>
<td>--</td>
<td>Domestic</td>
<td>Equipped, inactive</td>
<td>Feb-03</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>11N/35W-15G1</td>
<td>Top of sounding tube (234.8)</td>
<td>380</td>
<td>Domestic</td>
<td>Active</td>
<td>Oct-00</td>
<td>Water Well Supply</td>
<td>1985</td>
<td>--</td>
</tr>
<tr>
<td>11N/35W-10R2</td>
<td>Top of casing (269.1)</td>
<td>365</td>
<td>Domestic / Irrigation</td>
<td>Active</td>
<td>Nov-03</td>
<td>Longwell</td>
<td>1956</td>
<td>Pumping often</td>
</tr>
<tr>
<td>11N/35W-10R3</td>
<td>Top of casing (est. 276)</td>
<td>--</td>
<td>Domestic</td>
<td>Active</td>
<td>Apr-06</td>
<td>--</td>
<td>--</td>
<td>Discontinued Dec-08, no access, redundant location</td>
</tr>
<tr>
<td>11N/35W-9K4</td>
<td>Top of sounding port (County GPS=168.55)</td>
<td>--</td>
<td>Domestic</td>
<td>Active</td>
<td>Jan-2004 by Cleath &amp; Associates</td>
<td>Floyd V. Wells</td>
<td>1960's</td>
<td>Pumping often. Monitored by County Public Works Dept. in October and April since 1973</td>
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<tr>
<td>11N/35W-10K</td>
<td>Top of casing (249.3)</td>
<td>210</td>
<td>Domestic</td>
<td>Unequipped</td>
<td>Feb-05</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>11N/35W-22H</td>
<td>Top of casing (270.1)</td>
<td>--</td>
<td>Domestic</td>
<td>Active</td>
<td>Dec-04</td>
<td>--</td>
<td>--</td>
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<tr>
<td>11N/35W-10Q</td>
<td>Top of casing (284.5)</td>
<td>257</td>
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<td>Inactive</td>
<td>May-05</td>
<td>--</td>
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<tr>
<td>11N/35W-15B4</td>
<td>Concrete slab (244.8)</td>
<td>500</td>
<td>Domestic</td>
<td>Inactive</td>
<td>Sep-05</td>
<td>Central Coast</td>
<td>2005</td>
<td>Unimproved lots</td>
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</tbody>
</table>

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Figure 3
Water Levels Through January 2009
The Woodlands Offsite - Southeast Wells
Figure 4
Water Levels Through January 2009
The Woodlands Offsite - Northern Wells
Figure 5
Water Levels Through January 2009
The Woodlands Offsite - Northeast Wells
### Table 3

Aquifers Penetrated by Woodlands Onsite and Offsite Wells

<table>
<thead>
<tr>
<th>Common Well Name</th>
<th>Deep Aquifer (confined)</th>
<th>Shallow Aquifer (water table)</th>
<th>Mixed Aquifers</th>
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<tbody>
<tr>
<td>Mesa</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>Dawn</td>
<td>X</td>
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<td>Homestead</td>
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<tr>
<td>Flintcote</td>
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<tr>
<td>11N/35W-14N</td>
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<td>X</td>
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