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Chuck Wahlen
4053 South Olathe Ct.
Aurora, Colorado 80013

Re: Coyote Hills Water Supply

Dear Chuck:

Pursuant to your request, we have reviewed the water which can supply the captioned subdivision through a central water supply system. The subdivision is comprised of 32 residential lots located on approximately 200 acres in Elbert County, and the groundwater underlying the land was decreed in Case No. 98CW265. The following describes the amounts decreed and the estimated depth of wells to reach the bottoms of the aquifers:

Aquifer	Annual Amount	Estimated Depth
Upper Dawson	72 acre-feet	600 feet
Lower Dawson	21 acre-feet	825 feet
Denver	80 acre-feet	1400 feet
Arapahoe	80 acre-feet	2200 feet
Laramie-Fox Hills	55 acre-feet	2900 feet

The Upper Dawson aquifer water is not nontributary but can be withdrawn pursuant to an augmentation plan as also decreed in Case No. 98CW265. This decree provides for withdrawal of 24 acre-feet per year for a 300 year period to provide each lot with an annual supply of 0.75 acre-feet, through individual or central wells. (It is our understanding that the subdivision will have a central system).

We discussed what the most cost efficient source of water would be with Bruce Hier of Hier Drilling Company. Bruce agrees that the most inexpensive source would be a couple of wells completed into the Upper Dawson aquifer which

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would be permitted and operated pursuant to the augmentation plan. (Bruce also thought these wells would pump at rates of flow from 15 to 30 gpm). However, he also had concerns that to use this source, it may be necessary to also have a storage tank in place, because the yield from the wells may not be sufficient to supply all the lots at peak times.

The Lower Dawson aquifer is not a sufficient source, so another alternative would be to drill one large municipal well into the nontributary Denver aquifer. However, this one well could cost more than three fairly good size Upper Dawson aquifer wells. Also, the advantage of using the Upper Dawson aquifer, is that the wells can be permitted and constructed as the development is built out to full capacity. Therefore, the capital costs required at this time to drill one Upper Dawson aquifer well is much less that if a Denver aquifer well is constructed.

We can obtain one or more well permits to construct Upper Dawson wells at any time pursuant to the decree. However, we do not know if the central system has been planned at this time and where the Upper Dawson wells would be located and integrated into that system. If the system has been designed, please provide us with the name of the firm and a contact and we will work with them on locating the wells (or whether they have considered any other options). We can also check whether there will be some storage for peak use times.

It is difficult to go any farther toward getting the well permits until we have this information. If you have any questions or would like to discuss this in more detail, please call Gary Crosby of this office.

Sincerely,

Holly

Holly I. Holder

HIH:gjc
cc: Dave Archer