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TO: Shane Parker, Roger Greer, Vince Cauero
 FR: John Capece
 DA: January 2, 2008
 RE: West Hendry Water Demands

Assuming SFWMD grants PLUS the 1.2 mgd permit from the Sandstone Aquifer, I estimate that we would reach the current PLUS WTP capacity by 2012 if West Hendry reached 850 homes by that date. We would then need to increase the PLUS water plant capacity and water use permit from 1.2 mgd (raw water) to it's upper limit of 2.6 mgd water.

| Year | PLB homes | LaBelle homes | W.Hendry homes | Total homes | Usage gpd/home | Raw Water gpd |
|------|--------------|------------------|-------------------|----------------|-------------------|------------------|
| 2008 | 1,609 | 400 | 0 | 2,009 | 396 | 795,564 |
| 2009 | 1,709 | 450 | 50 | 2,209 | 396 | 874,764 |
| 2010 | 1,816 | 500 | 250 | 2,566 | 396 | 1,016,136 |
| 2011 | 1,928 | 550 | 550 | 3,028 | 396 | 1,199,088 |
| 2012 | 2,045 | | 850 | 2,895 | 396 | 1,146,420 |
| 2013 | 2,169 | | 1150 | 3,319 | 396 | 1,314,324 |
| 2014 | 2,299 | | 1450 | 3,749 | 396 | 1,484,604 |
| 2015 | 2,435 | | 1750 | 4,185 | 396 | 1,657,260 |
| 2016 | 2,578 | | 2050 | 4,628 | 396 | 1,832,688 |
| 2017 | 2,727 | | 2350 | 5,077 | 396 | 2,010,492 |
| 2018 | 2,883 | | 2650 | 5,533 | 396 | 2,191,068 |
| 2019 | 3,046 | | 2950 | 5,996 | 396 | 2,374,416 |
| 2020 | 3,215 | | 3250 | 6,465 | 396 | 2,560,140 |

If West Hendry from 2012 forward continued to build at a rate of 300 homes per year (250 if including commercial) then the PLUS water plant would reach its maximum capacity in 2020. I have attached a spreadsheet that allows you to try out various West Hendry building rates by changing the numbers in the green column (number of new home equivalents constructed in that year). Assumptions regarding City of LaBelle's supplemental water requirements up until their new WTP is completed are also provided in the spreadsheet and can be modified.

As I have mentioned in our meetings, the risk to Hendry County and PLUS customers is that by accelerating the rate at which we consume the current plant's 1.2 mgd capacity, SFWMD may push PLUS to the Lower Hawthorne rather than allowing us to collect data from the Sandstone Aquifer gradually over time to demonstrate that a 2.6 mgd allocation would represent no adverse effect on the groundwater resource or on surface water & wetland water levels. Being forced to the Lower Hawthorne rather than being allowed to continue using the Sandstone would represent an added cost of at least \$8 million beyond that required to expand plant and well capacity using the Sandstone Aquifer.

However, it is not at all certain that SFWMD will allow PLUS to continue using the Sandstone regardless of how much data is collected or what those data show. Nevertheless, the Sandstone/Hawthorne transition cost issue is a risk factor that must be considered in planning.