Update to Building Block Information

Attached is a slightly updated and expanded version of the summary table for the Building Blocks (BBs). The key changes are highlighted in the table, and are as follows:

1. Capital costs have been updated for BBs 1 and 2 (in-lieu and ASR, respectively). The updates reflect various improvements and modifications to the scaling (and hence numbers) of wells, removing cost for the pipeline upgrade from Felton to Loch Lomond for BB1, including land acquisition costs for well sites, and other factors. Updated Tables 1.1 and 1.2 are also attached to provide additional detail.

2. The change in capital costs for BBs 1 and 2 also resulted in updated total annualized costs for those options and related changes.

3. Two new unit cost metrics have been provided, in the two added shaded rows. These reflect the total annualized cost divided by the "yield" that each option provides the City. One metric reflects the worst year peak season yield (row j = row c divided by row h), and the other reflects the average year peak season yield (row k = row c divided by row i). These yield-based unit cost metrics are more indicative of the benefit Santa Cruz receives from the BB options than the "annual production cost" metric provided (row f = row c divided by row g, which is based on production volume received by the City) because the yield approach reflects how much a BB contributes to closing the peak season shortage gaps.

4. Slight variations have been added for BBs 3, 7, and 8 (DPR, and the desal options, respectively).

    a. The added column labeled "3-small" reflects the scale of DPR that could be attained if the City relied solely on the wastewater effluent it produced on its own (i.e., not relying on any effluent coming from the County of Santa Cruz).

    b. BB7-large and BB 8-large reflect slightly enlarged desal options, such that the yields are sufficient to keep worst year shortages under 15%. Confluence runs for the two enlarged desal options have not been run, so we do not report any specific yield estimates for these variations.