

BENEFIT CALCULATION, MONETIZATION, and RESILIENCY TAB	
	<p>Q.1 Did the applicant use the model products and assumptions described in section 6004(a)(1) of the regulations? See regulations section 6003(a)(1)(CC). If no, provide a description of the models and assumptions used to determine the without- project future conditions for years 2030 and 2070.</p> <p>The analyses conducted for the Sites Reservoir Project utilized the model products and assumptions described in section 6004(a)(1). This includes the 2030 and 2070 future conditions CalSim II and DSM2 models provided by the California Water Commission on November 2, 2016. The models provided by the commission were modified to include the facilities and operation of the Sites Project as described in the Project Description and Assumptions section.</p> <p>For the analysis of the Relative Environmental Values, the with- and without-project current conditions analyses were based on the DWR State Water Project Delivery Capability Report 2015 (DCR 2015) – CalSim II base scenario. The DCR 2015 base scenario, provided by DWR, was modified to include the facilities and operation of the Sites Project. The project description and assumptions for the with-project current condition are the same as for the 2030 and 2070 with-project conditions.</p> <p>The analyses also included the use of other analytical tools that were updated for future 2030 and 2070 conditions. These tools include:</p> <ul style="list-style-type: none"> • USRDOM – Upper Sacramento River Daily Operations Model • Sacramento River HEC5Q model • SALMOD • American River CE-QUAL-W2 Model • CWEST • SWAP • LTGEN • SWP Power • NODOS Power
	<p>A.1 Attach description and assumptions of with-project conditions for years 2030 and 2070, as defined in section 6004(a)(2) of the regulations, as well as a description of the with- and without-project current conditions. See also regulations section 6003(a)(1)(BB).</p> <p>Attached filename: Sites_A1 Modeling under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB</p>
	<p>A.2 Attach the preliminary operations plan for the proposed project. See regulations section 6003(a)(1)(H) for details. If the preliminary operations plan is located in another attachment, identify the attachment and provide the location.</p> <p>Attached filename: Sites_A2 Operations under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB</p>
	<p>A.3 Attach the analysis of all public and non-public monetized benefits. Identify at least one Program ecosystem or water quality priority for any ecosystem or water quality public benefit quantified. For each public and non-public benefit, describe the methods used to derive the physical and economic benefits and impacts at a level of detail that allows reviewers to verify your analysis.</p> <p>Description must include:</p> <ul style="list-style-type: none"> • The physical changes that are being monetized, consistent with information requested in the Physical Public Benefits Tab, and describing linkages between physical benefits and monetized benefits. See regulations sections 6004(a)(3) and 6004(a)(4); and • The monetization method and sources for data used. See regulations section 6004(a)(4). <p>Attached filename: Sites_A3 Physical Monetized under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB</p>
	<p>A.4 For each net public benefit claimed, where applicable, identify any existing environmental mitigation or compliance obligations that are accounted for in each net public benefit as of the date of the CalSim-II model product in section 6004(a)(1).</p> <ul style="list-style-type: none"> • Applicants that use the CalSim-II and DSM2 models to analyze their projects can indicate “within models” for any existing environmental mitigation and compliance obligations contained in those models. • If applicable to their claimed net public benefit such projects shall also list and account for the non-flow related mitigation and compliance obligations of the State Water Project and Central Valley Project.

STATUS: FINAL
PURPOSE: BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY A1
CAVEAT:
NOTES:

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QA/QC: REF/FILE #: WSIP APPLICATION
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	Attached filename: Sites_A4 Mitigation under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.5	Provide additional information that supports the physical and monetary quantification of the public and non-public benefits and impacts of the project as required by subsection 6004(a)(4) of the regulations. This includes data, assumptions, analytical methods and modeling results, calculations and relevant sources of information. For reference documents or studies relied upon, applicants may provide links to an existing website in lieu of attaching those documents to the application. Attached filename: Sites_A5 Documentation under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.6	Attach a table displaying each future economic benefit in 2015 dollars for each year of the planning horizon as required by section 6004(a)(4)(A) of the regulations. Attached filename: Sites_A6 Annual Benefits Table under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.7	If applicable, provide a summary of public benefits that cannot be monetized. Provide the following information for each non-monetized benefit. <ul style="list-style-type: none"> • Justification why benefit cannot be monetized, • Qualitative description of importance of benefit (who is affected, how and how often), • Evidence to show how the physical change is beneficial and important to Californians. Attached Filename: Sites_A7 Non Monetized under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.8	Attach an estimate of the total project costs that includes construction cost, interest during construction, land acquisition, monitoring, environmental mitigation or compliance obligations, operations and maintenance, repair, and replacement costs during the planning horizon using methods described in TR section 6. If the project costs are located in another attachment, identify the location. <i>The project cost estimates must be reviewed, approved and signed by an engineer licensed by the California Board for Professional Engineers, Land Surveyors, and Geologists.</i> Attached filename: Sites_A8 Estimate under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.9	Attach the benefit and cost analysis for the proposed project. If the analysis is located in another document, identify the location. See regulations section 6004(a)(6). Attached filename: Sites_A9 BCA Results under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.10	Provide a proposed allocation of total project costs to all project beneficiaries, including the Program, and an explanation of how the allocation was calculated, consistent with TR section 8 and section 6004(a)(7) of the regulations. If this information is included in another attachment, identify the location. Attached filename: Sites_A10 Allocation under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.11	Attach the Physical and Economic Benefits Summary tables. These tables can be downloaded from the Commission website and uploaded with the application. See regulations section 6003(a)(1)(N). Attached filename: Sites_A11 Benefits Table under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB
A.12	Attach the uncertainty analysis. See regulations section 6004(a)(8). Attached filename: Sites_A12 Uncertainty under the BENEFIT CALCULATION, MONETIZATION, AND RESILIENCY TAB

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