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**From:** Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>  
**Sent:** Thursday, April 25, 2019 2:19 PM  
**To:** Brian Ellrott - NOAA Federal  
**Cc:** Joe Heublein - NOAA Federal  
**Subject:** Re: Uncertainties

Sarah just asked GARwin that, and his response was "uncertainties in the effects analysis, but could be driven by uncertainties in the PA". So, both, it seems. Howard's context seems to be adaptive management, which lends itself to fixing certain kinds of uncertainties, but I'm still gonna include some process uncertainties from the Stan, like uncertainty about what the regulatory flow requirement for hte SJR will be come Jan 2020. If not what he's looking for, he can cut it.

On Thu, Apr 25, 2019 at 2:13 PM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:

Thanks Barb! Looking for uncertainties with the PA, our effects analysis on the PA, or both?

On Thu, Apr 25, 2019 at 2:09 PM Barbara Byrne - NOAA Federal <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)> wrote:

FYI -- Howard looking for Division uncertainties; suspect he left you off to you can either focus on I&S or just take a breath.

Unless I hear otherwise that you have time and inclination to do it, **I will pull what I think are key uncertainties for the American River** from the Effects analysis and sufficiency review worksheets.

----- Forwarded message -----

From: **Howard Brown - NOAA Federal** <[howard.brown@noaa.gov](mailto:howard.brown@noaa.gov)>

Date: Thu, Apr 25, 2019 at 2:03 PM

Subject: Uncertainties

To: Sarah Gallagher - NOAA Federal <[sarah.gallagher@noaa.gov](mailto:sarah.gallagher@noaa.gov)>, Barbara Byrne <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)>, J. Stuart <[j.stuart@noaa.gov](mailto:j.stuart@noaa.gov)>, Evan Sawyer - NOAA Affiliate <[evan.sawyer@noaa.gov](mailto:evan.sawyer@noaa.gov)>, Cathy Marcinkevage <[Cathy.Marcinkevage@noaa.gov](mailto:Cathy.Marcinkevage@noaa.gov)>, Garwin Yip <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)>

Sorry for this late-in-the-day request, by I am hoping you folks might be able to pull together a short list of key uncertainties from your effects analysis drafting. I am meeting with Reclamation and FWS tomorrow to discuss adaptive management and it would be more than helpful to get your latest views on uncertainty. I suggest now more than key uncertainties per division. Short bullet points would be perfect. COB today would be ideal!

Thank you!

Howard

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