

---

**From:** Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>  
**Sent:** Thursday, April 25, 2019 2:09 PM  
**To:** Ellrott, Brian; Joe Heublein - NOAA Federal  
**Subject:** Fwd: Uncertainties

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

--

**Howard L. Brown**

*Policy Advisor*

*NOAA Fisheries, West Coast Region*

*U.S. Department of Commerce*

(916) 930-3608

[Howard.Brown@noaa.gov](mailto:Howard.Brown@noaa.gov)



[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)

--

**Barb Byrne**

*Fish Biologist*

*NOAA Fisheries West Coast Region*

U.S. Department of Commerce  
Office: 916-930-5612  
[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)  
California Central Valley Office  
650 Capitol Mall, Suite 5-100  
Sacramento, CA 95814



**Find us online**

[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)

