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**From:** Howard Brown - NOAA Federal <howard.brown@noaa.gov>  
**Sent:** Friday, February 8, 2019 11:29 AM  
**To:** Garwin Yip; Barry Thom; Maria Rea; Cathy Marcinkevage; Kaylee Allen; Jana Affonso; paul\_souza@fws.gov; Norma Hinton - NOAA Affiliate; Callejo, Russell; Beverly Pies - NOAA Federal  
**Subject:** NMFS Analytical Needs Update

Paul and Barry,

We had a productive meeting yesterday between NMFS, USFWS, Reclamation and a group of consultants to discuss modeling needs and deliverable dates. Russ and Cathy will be giving an update at 3:30. We also made some good progress with the NMFS Southwest Fisheries Science Center and Cathy will be updating us on the discussion also. Attached is a summary of the NMFS modeling needs expected deliverable dates.

Howard

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