

---

**From:** Naseem Alston - NOAA Federal <naseem.alston@noaa.gov>  
**Sent:** Tuesday, May 21, 2019 5:00 PM  
**To:** Sarah Gallagher - NOAA Federal; Evan Sawyer - NOAA Affiliate; J. Stuart; Barb Byrne; Brian Ellrott; Joe Heublein - NOAA Federal  
**Cc:** Cathy Marcinkevage; Garwin Yip; Brittany Cunningham - NOAA Affiliate; Howard Brown; Kristin McCleery - NOAA Affiliate  
**Subject:** Take Outline  
**Attachments:** ROC on LTO Take Outline at a Glance.docx

Division Leads,

Brittany and I are working on the Take Statement, and it would be a big help if you could give us **a few moments (15 min)** of your time.

Please take a look at the attached one-pager [Take Outline table](#) (also on the drive: R:\Draft BiOp\2\_ESA\2.11 ITS - Take Outline)

It is a *super quick/dirty* outline of the general categories of take per division based on the I&S tables.

I'm sure there are many more specific rows to add, but what we are looking for is your initial thoughts on what might be used for a surrogate.

(do we have actual numbers/data? do we have modeled numbers? might we use size of habitat affected? temps/flows? etc)

If you can take a quick look this week (**check with managers on priorities if needed**) - and let us know you've looked and offered some ideas (or had none), we'd really appreciate it!

thanks for your time,

Naseem O. Alston  
ESA-Section 7 Coordinator/Fish Biologist  
NOAA Fisheries West Coast Region  
U.S. Department of Commerce  
California Central Valley Office  
Sacramento, CA  
(916)930-3655  
<http://www.westcoast.fisheries.noaa.gov/>