
From: Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov>
Sent: Tuesday, May 28, 2019 10:11 PM
To: Naseem Alston - NOAA Federal; Brittany Cunningham - NOAA Affiliate
Subject: Re: Take Outline

I took a quick look and added some items. I'd like to think on it more and maybe look in other places (like CDFW CWF ITP, not sure what they permitted for upper sac....).

On Tue, May 21, 2019 at 4:59 PM Naseem Alston - NOAA Federal <naseem.alston@noaa.gov> wrote:
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/>