From: Sarah Gallagher - NOAA Federal <sarah.gallagher@noaa.gov>

**Sent:** Friday, March 1, 2019 2:02 PM **To:** Cathy Marcinkevage - NOAA Federal

**Subject:** Re: ROC FAST TURNAROUND METHOD NEED

Sorry this is late; I wanted to talk to you about this before I sent but kept missing you.

For Clear Creek: Spawning and rearing WUA for spring run and steelhead (fall run for Killer whale) and redd dewatering steelhead/fall/latefall

Upper Sac: Floodplain inundation in upper Sac and redd dewatering (all runs)

Is the egg mortality model the science center's model?

## Sarah Gallagher | Fish Biologist

NOAA Fisheries | West Coast Region U.S. Department of Commerce 650 Capitol Mall, Suite 5-100, Sacramento, CA 95814 916-930-3712 | Sarah.Gallagher@noaa.gov

On Fri, Mar 1, 2019 at 1:52 PM Cathy Marcinkevage - NOAA Federal < <a href="mailto:cathy.marcinkevage@noaa.gov">cathy.marcinkevage@noaa.gov</a>> wrote:

Sarah, do you have any definite needs that you can identify here? Please let me know asap.

Thanks, Cathy

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

From: Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov>

Date: Thu, Feb 28, 2019 at 2:31 PM

Subject: ROC FAST TURNAROUND METHOD NEED

To: Barbara Byrne <a href="mailto:sarahgen: byrne@noaa.gov">barbara Byrne <a href="mailto:sarahgen: byrne@noaa.gov">byrne@noaa.gov</a>>, Sarah Gallagher - NOAA Federal

< sarah.gallagher@noaa.gov >, Evan Sawyer - NOAA Affiliate < evan.sawyer@noaa.gov >, Joe Heublein -

NOAA Federal < joe.heublein@noaa.gov>, Brian Ellrott < brian.ellrott@noaa.gov>, Garwin Yip

<<u>sarwin.yip@noaa.gov</u>>, Howard Brown <<u>howard.brown@noaa.gov</u>>, J. Stuart <<u>j.stuart@noaa.gov</u>>, Justin Ly - NOAA Federal <<u>justin.ly@noaa.gov</u>>, Seth Naman - NOAA Federal <<u>seth.naman@noaa.gov</u>>, Kristin

McCleery - NOAA Affiliate <a href="mailto:kristin.begun@noaa.gov">kristin.begun@noaa.gov</a>>

All --

Please see the attached list of WUA and IFIM related methods. This is in response to an initial request from us to ICF. The green rows are more specific to our request, and the rest are similar/related by weren't asked for specifically.

Please respond by noon tomorrow with an indication of methods that you would like completed for your division.

Note that the last column is ICF's take on the method -- if you have more "on the ground" or update knowledge that differs, you should defer to your own expertise.

Let me know if you have any questions.

Thanks! Cathy

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

From: **Ellis, Gregg** < <u>Gregg.Ellis@icf.com</u>>

Date: Thu, Feb 28, 2019 at 1:50 PM Subject: Available models.xlsx

To: Cathy Marcinkevage - NOAA Federal (cathy.marcinkevage@noaa.gov) < cathy.marcinkevage@noaa.gov>