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**From:** J. Stuart - NOAA Federal <j.stuart@noaa.gov>  
**Sent:** Monday, April 1, 2019 3:57 PM  
**To:** Kristin Begun - NOAA Affiliate  
**Cc:** Garwin Yip - NOAA Federal; Barbara Byrne; Howard Brown  
**Subject:** Re: ROC fall x2?

I added some comments to the document. First blush is that it will probably put WR and smelt in conflict with each other (unless Reclamation has modeling to indicate otherwise) due to upstream reservoir releases and upstream temperature compliance for WR. The addition of BN water years (not just AN and Wet) and June through August in addition to September and October for the action and moving the compliance point downstream into Grizzly Bay and Suisun Marsh, rather than the 80 km (Broad Slough area) would indicate to me that more water releases must be made to achieve the stated goals for compliance. This document does not say which reservoir is going to be tapped, or if the outflow will be by export reduction.

On Mon, Apr 1, 2019 at 3:43 PM Kristin Begun - NOAA Affiliate <[kristin.begun@noaa.gov](mailto:kristin.begun@noaa.gov)> wrote:  
Okay, I'll stick to the BA but using the 80 km. There are still some unknowns since project description is not super clear.

Kristin Begun, Natural Resource Specialist  
Contractor with Ocean Associates, Inc.  
NOAA Fisheries West Coast Region  
[kristin.begun@noaa.gov](mailto:kristin.begun@noaa.gov)

On Mon, Apr 1, 2019 at 3:33 PM Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)> wrote:  
Very timely, meeting with USFWS right now. USFWS suggested going with Reclamation's initial PA on "fall X2," but with the numbers (80 km) from The newest language. We just need to be very explicit regarding what we're using and where it came from.

Sent from my iPhone

On Apr 1, 2019, at 2:52 PM, Kristin Begun - NOAA Affiliate <[kristin.begun@noaa.gov](mailto:kristin.begun@noaa.gov)> wrote:

HI Garwin,

Should I update my Fall Delta Smelt Habitat (X2) section based on the revised text? It lays things out with more detail (based on water year type) but is still not crystal clear. The BA says X2 would move upstream to an average of 92 km in September and October. The revised text says Delta outflow may be augmented in above normal and wet years to maintain 2 ppt isohaline at 80 km in September and October. Also, there is no mention of where the water would come from to augment outflow, or where X2 will be in dry or critically dry years in either document.

Just wondering if I should keep my effects section up to date with most current info or wait for more detail.

Kristin

Kristin Begun, Natural Resource Specialist  
Contractor with Ocean Associates, Inc.  
NOAA Fisheries West Coast Region  
[kristin.begun@noaa.gov](mailto:kristin.begun@noaa.gov)

On Mon, Apr 1, 2019 at 12:43 PM Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)>  
wrote:

FYI

Sent from my iPad

Begin forwarded message:

**From:** "Allen, Kaylee" <[kaylee\\_allen@fws.gov](mailto:kaylee_allen@fws.gov)>  
**Date:** April 1, 2019 at 9:46:00 AM PDT  
**To:** Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)>, "Howard Brown - NOAA Federal" <[howard.brown@noaa.gov](mailto:howard.brown@noaa.gov)>  
**Subject:** Fwd: ROC fall x2?

FYI

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

From: **Callejo, Russell** <[rcallejo@usbr.gov](mailto:rcallejo@usbr.gov)>  
Date: Fri, Mar 29, 2019 at 5:27 PM  
Subject: Re: ROC fall x2?  
To: Jana Affonso <[jana\\_affonso@fws.gov](mailto:jana_affonso@fws.gov)>  
Cc: Harrison, Katrina E <[KHarrison@usbr.gov](mailto:KHarrison@usbr.gov)>, Janice Pinero <[jpinero@usbr.gov](mailto:jpinero@usbr.gov)>, Mooney, David <[dmmooney@usbr.gov](mailto:dmmooney@usbr.gov)>, Allen, Kaylee <[kaylee\\_allen@fws.gov](mailto:kaylee_allen@fws.gov)>

Hi Jana,

Sorry for the delay, please find Ch. 4 and Appendix C text attached. I revised Ch. 4 text based on my review of Appendix C.

Thanks,  
Russ

Russell Callejo  
Assistant Regional Director  
Bureau of Reclamation  
Mid-Pacific Regional Office  
2800 Cottage Way  
Sacramento, CA 95825  
916-413-9097  
[rcallejo@usbr.gov](mailto:rcallejo@usbr.gov)

On Fri, Mar 29, 2019 at 10:12 AM Jana Affonso <[jana\\_affonso@fws.gov](mailto:jana_affonso@fws.gov)>  
wrote:

Just checking in status of Appendix C refinements. ETA?

On Mar 28, 2019, at 11:58 AM, Callejo, Russell <[rcallejo@usbr.gov](mailto:rcallejo@usbr.gov)> wrote:

Hi Jana,

Please find attached our proposed action text for Delta Smelt Summer-Fall Habitat incorporating feedback received to date. We have not completed the refinements to Appendix C, but will send those as soon as possible.

Thanks,  
Russ

Russell Callejo  
Assistant Regional Director  
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2800 Cottage Way  
Sacramento, CA 95825  
916-413-9097  
[rcallejo@usbr.gov](mailto:rcallejo@usbr.gov)

On Thu, Mar 28, 2019 at 10:12 AM Affonso, Jana  
<[jana\\_affonso@fws.gov](mailto:jana_affonso@fws.gov)> wrote:  
ok thanks for getting back to me.

On Thu, Mar 28, 2019 at 9:55 AM Russell Callejo  
<[rcallejo@usbr.gov](mailto:rcallejo@usbr.gov)> wrote:  
I apologize Jana, we committed to having revised language to you this morning. Hopefully, Katrina can provide an update on where we are.

Sent from my iPhone

On Mar 28, 2019, at 8:42 AM, Affonso, Jana  
<[jana\\_affonso@fws.gov](mailto:jana_affonso@fws.gov)> wrote:

What'st the status? Our team is meeting this morning and I'd like to give them an update.

<Delta Smelt Summer-Fall Habitat.docx>

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Kaylee Allen  
Field Supervisor  
San Francisco Bay-Delta Fish and Wildlife Office  
U.S. Fish and Wildlife Service

(916) 930-5603  
[kaylee\\_allen@fws.gov](mailto:kaylee_allen@fws.gov)

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**Jeffrey S. Stuart, M.S.**  
*Fishery Biologist*

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