From: Kristin Begun - NOAA Affiliate <kristin.begun@noaa.gov>

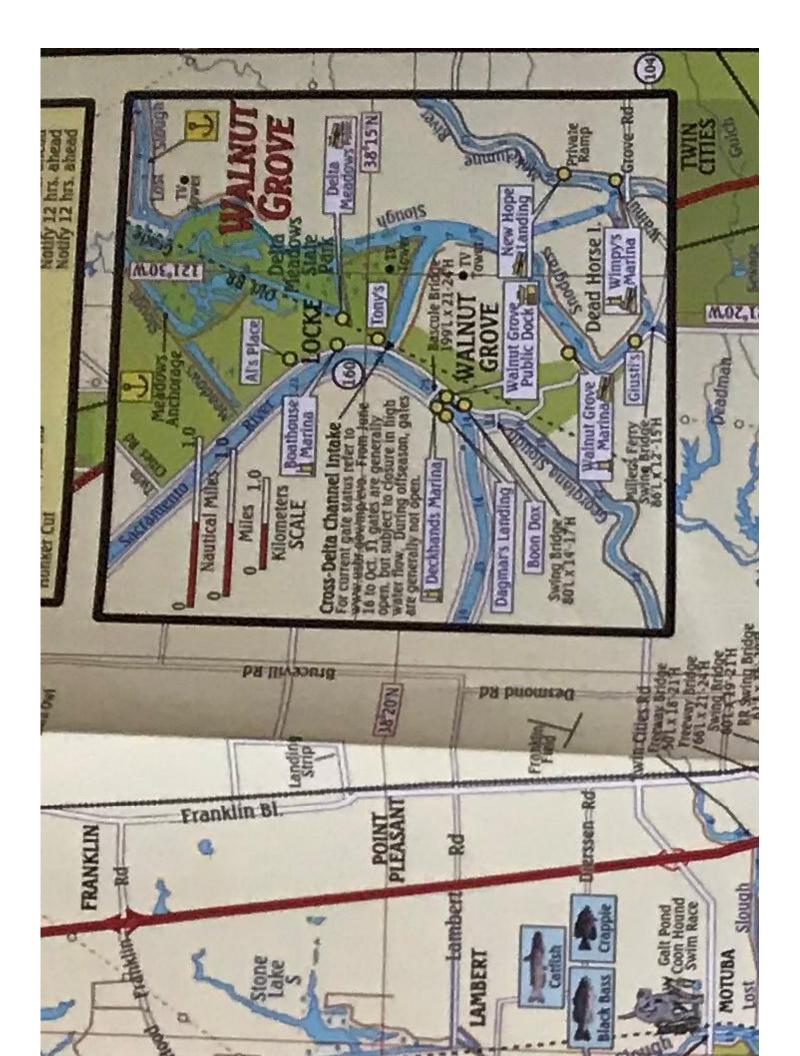
Sent: Wednesday, February 20, 2019 9:01 AM

To: Barbara Byrne - NOAA Federal
Cc: J. Stuart - NOAA Federal

Subject: Re: DSM2 Channel Velocity Analysis - locations

Hi Barb,

I've mapped these out too and the south Delta is pretty sparse. What locations did you and Jeff discuss? I placed green markers in locations (on the map) for spots I thought would be affected by exports and useful to see changes in flow. Orange markers are locations from table 2-166.



Kristin

On Wed, Feb 20, 2019 at 6:24 AM Barbara Byrne - NOAA Federal < barbara.byrne@noaa.gov > wrote: Jeff and I discussed this yesterday afternoon and we mapped out some rough locations (additional to those listed in Table 2-166) we'd like throughout the south Delta. I'm swamped this morning but this afternoon will check in with Kristin and then get something out to you.

On Tue, Feb 19, 2019 at 1:30 PM Cathy Marcinkevage - NOAA Federal < cathy.marcinkevage@noaa.gov wrote:

Barb, Jeff, and Kristen --

I know that the sufficiency review is the priority this week, but to get Rec's help on our later tasks in time, we need to give them some info now.

Attached are excerpts from the CWF BiOp noting which DSM2 channels were analyzed for changes in flow velocities and percent of time in "reverse" flow. We used this in some south Delta analyses on travel time and routing.

Rec will provide similar analyses and I gave them this list as an initial start. Can you take an hour or so later today or tomorrow to review this list and see if any need to be removed or added? I'm hoping it's in pretty good shape but want to be sure you as division leads have what you need.

Thanks! Cathy

Cathy Marcinkevage

California Central Valley Office NOAA Fisheries West Coast Region U.S. Department of Commerce

Office: (916) 930-5648 Cell: (562) 537-8734

cathy.marcinkevage@noaa.gov

Begin forwarded message:

From: "Harrison, Katrina" < <u>kharrison@usbr.gov</u>> **Date:** February 19, 2019 at 11:04:00 AM PST

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

Cc: "Ellis, Gregg" < Gregg. Ellis@icf.com>, "Leaf, Rob/SAC" < rob.leaf@jacobs.com>,

"Micko, Steve/SAC" < Steve. Micko@jacobs.com>

Subject: DSM2 Channel Velocity Analysis - locations

Hi Cathy -

Just a reminder that we need confirmation on the locations that you want the DSM2 velocity comparisons for in order to move forwards with the additional DSM2-HYDRO analysis that you requested. Basically, whether it is the same locations as Table 2-166 in the attached or whether you'd like any different locations. Once you confirm the locations we believe it should be pretty fast.

Thank you,

Katrina Harrison Bay-Delta Office Bureau of Reclamation Office: (916) 414-2425

Cell: (916) 606-8793

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Barb Byrne

Fish Biologist

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