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**From:** Terra Alpaugh <talpaugh@kearnswest.com>  
**Sent:** Wednesday, January 17, 2018 10:58 AM  
**To:** Harrison, Katrina; Andrew Schultz; Erwin Van Nieuwenhuyse; Joshua Israel; Thomas Patton; White, Kristin; Kiteck, Elizabeth; Ford, John@DWR; Matt Nobriga; Derek Hiltz; Michael.Eakin@wildlife.ca.gov; Duane.Linander@wildlife.ca.gov; Jim.Starr@wildlife.ca.gov; Ted.Sommer@water.ca.gov; Schreier, Brian@DWR; Deanna Sereno; Allison Febbo; Corey C Phillis; Sheila Greene; JOHN DEALY; Garwin Yip - NOAA Federal; j.stuart@noaa.gov; Danielson, Ammon (CONTR); Francis Brewster; tboardman@apex.net; Winternitz, Leo; Henery, Rene; Jana Affonso; Wilkinson, Chris@DWR; Carl Wilcox; Michelle Banonis; David Mooney; Pinero, Janice; Benjamin Nelson; Kundargi, Kenneth@Wildlife; Michael Harty; Jacobs, Brooke@Wildlife; dcgarcia@usbr.gov; kim\_squires@fws.gov; katherine\_sun@fws.gov; Tom.Boardman@SLDMWA.Org; Louise.Conrad@water.ca.gov; Kevin.Reece@water.ca.gov; Xiao.Wang@water.ca.gov; Prabhjot.Sandhu@water.ca.gov; Matthew.Reeve@water.ca.gov; Curtis.Yip@water.ca.gov; Ryan.Reeves@water.ca.gov; Jacob.McQuirk@water.ca.gov; Cici Vu; jnevills@mdwh2o.com  
**Cc:** Kirkland, Marianne@DWR; ahalston@usbr.gov; Jon Rubin; ebuttermore@usbr.gov; barbara.byrne@noaa.gov; Rene Henery; Clark, Kevin@DWR; Wilhite, Jerry  
**Subject:** Agenda + Details for Friday's USBR ROC on LTO Delta Technical Brainstorming Workshop  
**Attachments:** 20180119\_Workshop\_Delta\_Agenda.pdf

Hello all -

The USBR ROC on LTO team looks forward seeing you at Friday's workshop. *They hope you will come ready to brainstorm possible actions that could (a) increase water supply and (b) be developed and analyzed in a year.*

Attached is an agenda for the day. A few details to keep in mind:

- *Security:* The workshop will be held at 650 Capitol Mall, where you will have to go through security. **Please make sure you arrive before 10 am as there is often a line at security. We recommend allowing 10-15 minutes for this process.** Also, consider bringing a lunch if you do not want to go through security after lunch.
- *Brainstorming:* The brainstorming is occurring after lunch, around 1:45pm. Please try to stay for the afternoon as this is your opportunity to share your ideas.
- *Homework:* You may wish to brush up on some of the following documents / resources to jump-start your brainstorming.

- Delta Smelt Resiliency Strategy - <http://resources.ca.gov/docs/Delta-Smelt-Resiliency-Strategy-FINAL070816.pdf>
- Sacramento Valley Salmon Resiliency Strategy - <http://resources.ca.gov/docs/Salmon-Resiliency-Strategy.pdf>
- Salmonid Recovery Plan, Delta Summary  
([http://www.westcoast.fisheries.noaa.gov/publications/recovery\\_planning/salmon\\_steelhead/domains/california\\_central\\_valley/delta\\_summary\\_7-21-2014.pdf](http://www.westcoast.fisheries.noaa.gov/publications/recovery_planning/salmon_steelhead/domains/california_central_valley/delta_summary_7-21-2014.pdf))
- Bennett, 2005, Critical Assessment of the Delta Smelt Population in the San Francisco Estuary (<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.386.1419&rep=rep1&type=pdf>)
- Feyrer et. al., 2007  
(<https://www.researchgate.net/publication/233686820> Multidecadal trends for three declining fish species Habitat patterns and mechanisms in the San Francisco Estuary California USA)
- Lindley, et. al., 2007  
(<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.618.4888&rep=rep1&type=pdf>)
- Envisioning Futures, Appendix A: [http://www.ppic.org/content/pubs/report/R\\_207JLR.pdf](http://www.ppic.org/content/pubs/report/R_207JLR.pdf)
- NRC BO Report, download free pdf here: <https://www.nap.edu/catalog/12881/a-scientific-assessment-of-alternatives-for-reducing-water-management-effects-on-threatened-and-endangered-fishes-in-californias-bay-delta>
- Delta Stewardship Council's Science Action  
Agenda: <http://scienceactionagenda.deltacouncil.ca.gov/sites/default/files/2017-2021-SAA-final-Sept2017.pdf>

Please let me know if you have any questions in advance of Friday! We look forward to seeing you there.

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-----Original Appointment-----

**From:** Terra Alpaugh  
**Sent:** Thursday, January 4, 2018 8:52 PM  
**To:** Terra Alpaugh; Harrison, Katrina; Andrew Schultz; Erwin Van Nieuwenhuyse; Joshua Israel; Thomas Patton; White, Kristin; Kiteck, Elizabeth; Ford, John@DWR; Matt Nobriga; Derek Hilts; Michael.Eakin@wildlife.ca.gov; Duane.Linander@wildlife.ca.gov; Jim.Starr@wildlife.ca.gov; Ted.Sommer@water.ca.gov; Schreier, Brian@DWR; Deanna Sereno; Allison Febbo; Corey C Phillis; Sheila Greene; JOHN DEALY; Garwin Yip - NOAA Federal; j.stuart@noaa.gov; Danielson, Ammon (CONTR); Francis Brewster; tboardman@apex.net; Winternitz, Leo; Henery, Rene; Jana Affonso; Wilkinson, Chris@DWR; Carl Wilcox; Michelle Banonis; David Mooney; Pinero, Janice; Benjamin Nelson; Kundargi, Kenneth@Wildlife; Michael Harty; Jacobs, Brooke@Wildlife; dcgarcia@usbr.gov; kim\_squires@fws.gov; katherine\_sun@fws.gov; Tom.Boardman@SLDMWA.Org; Louise.Conrad@water.ca.gov; Kevin.Reece@water.ca.gov; Xiao.Wang@water.ca.gov; Prabhjot.Sandhu@water.ca.gov; Matthew.Reeve@water.ca.gov; Curtis.Yip@water.ca.gov; Ryan.Reeves@water.ca.gov; Jacob.McQuirk@water.ca.gov; Cici Vu; jnevills@mwdh2o.com  
**Cc:** Kirkland, Marianne@DWR; ahalston@usbr.gov; Jon Rubin; ebuttermore@usbr.gov; barbara.byrne@noaa.gov; Rene Henery; Clark, Kevin@DWR; Wilhite, Jerry  
**Subject:** USBR ROC on LTO Delta Technical Brainstorming Workshop

**When:** Friday, January 19, 2018 10:00 AM-4:00 PM (UTC-08:00) Pacific Time (US & Canada).

**Where:** Stanford Room, 650 Capitol Mall, Sacramento

Hi all –

In December, you received an email from Katrina Harrison, the ROC on LTO project manager at USBR's Bay Delta Office, about scheduling a Delta brainstorming workshop. Based on your Doodle poll responses, **we are confirming that workshop for Friday, January 19.**

As you know, in August 2016, Reclamation, along with DWR as the applicant, reinitiated Section 7 Endangered Species Act consultation on the Coordinated Long-term Operations (LTO) of the Central Valley Project and State Water Project. Since that time, they have been working to set up a framework for the reinitiation of consultation (ROC) on the LTO. The ROC on LTO may include changes to operations, habitat restoration, or infrastructure to assist in meeting the authorized purposes of the CVP and SWP. For more information on the ROC on LTO, see USBR's website: <https://www.usbr.gov/mp/BayDeltaOffice/lto.html>.

**USBR is trying to obtain ideas prior to developing alternatives to make sure they have a robust range of actions moving forwards.** This technical brainstorming workshop with engineers and fisheries biologists is intended to generate those ideas as they pertain to the Delta.

You know the system best - **how can USBR improve? Please bring your ideas, and be prepared to come up with new ones.**

I am helping Katrina and her team with scheduling and logistics, so please keep your eye out for more information and agendas from me in advance of the workshop.

Thank you,  
Terra

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