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13	UNITED STATES DISTRICT COURT	
14	EASTERN DISTRICT OF CALIFORNIA FRESNO DIVISION	
15		Lead Case:
16		1:09-cv-407-LJO-DLB
17		Member Cases: 1:09-cv-422-LJO-DLB
18	THE CONSOLIDATED DELTA SMELT	1:09-cv-631-LJO-DLB 1:09-cv-892-LJO-GSA
19	CASES	Partially Consolidated With: 1:09-cv-480-LJO-GSA
20		1:09-cv-1201-LJO-DLB
21		Declaration of Ren Lohoefener In Support of the Joint Status Report
22		and Request to Further Extend the Remand Schedule For The
23		Delta Smelt Biological Opinion
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25		Lead Case: 1:09-cv-1053-LJO-DLB
26		Member Cases:
27 28	THE CONSOLIDATED SALMONID	1:09-cv-1090-LJO-DLB 1:09-cv-1378-LJO-DLB 1:09-cv-1520-LJO-DLB

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1	CASES	1:09-cv-1580-LJO-DLB 1:09-cv-1625-LJO-SMS
2		Declaration of Ren Lohoefener In
3		Support of the Joint Status Report and Request to Further Extend
4		the Remand Schedule For The Delta Smelt Biological Opinion
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1 I, Ren Lohoefener, declare as follows:

I am the Regional Director of the Pacific Southwest Region of the U.S. Fish and
 Wildlife Service ("Service"). In this capacity, I oversee approximately 1,000 employees in
 California, Nevada, and Oregon employed in support of numerous programs and projects
 including National Wildlife Refuges, Endangered Species, Conservation Partnerships, Science
 Applications, Migratory Birds, Fisheries, and numerous subprograms such as environmental
 contaminants, fish passage, and many others.

8 2. The Pacific Southwest Region's Bay Delta Fish and Wildlife Office is staffed by 9 approximately 35 employees. Among many obligations, this office administers the Endangered 10 Species Act (ESA) in the Bay Delta Region, including preparation of the draft and final remand 11 Biological Opinions (BiOp) regarding the effects of the continued long-term operation of the 12 Central Valley Project (CVP) and State Water Project (SWP) on delta smelt. This office 13 participates in the Collaborative Science and Adaptive Management Program (CSAMP). Additionally, this office is working on many important efforts in the San Francisco Bay. the 14 15 Delta and its tributaries, such as providing technical assistance in the development of the Bay 16 Delta Conservation Plan (BDCP) and participating as a federal co-lead agency in the 17 corresponding NEPA process, implementation of the Central Valley Project Improvement Act 18 (CVPIA), and participating in the State Water Resources Control Board's revision of the Water 19 Quality Control Plan for the Bay-Delta.

3. I approved and signed the Service's final 2008 BiOp on the Long Term Operations of
 the Central Valley Project and State Water Project that found jeopardy and adverse modification
 of designated critical habitat for the delta smelt ("2008 Smelt BiOp"), and I am familiar with the
 litigation that has followed.

4. I am also familiar with the CSAMP created by the agencies and certain parties to the
litigation to provide both an avenue to supplement existing scientific processes and a greater
voice to stakeholders in scientific investigations regarding some of the more contentious fish
protective actions. The CSAMP is intended to enhance existing efforts to determine if there are
alternative methods of achieving equivalent or improved biological protection for listed species
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with less impact to water supply. I filed two declarations with this Court, one in November,
 2012, and one in February, 2013, in support of the extension of the remand schedule and
 development of the CSAMP.

5. The Service has devoted substantial time and resources towards initiating and
undertaking the CSAMP process. Since this Court granted the initial year extension on remand, I
and members of my staff have spent approximately 1,000 hours developing and participating in
the CSAMP process.

8 6. Even in the absence of litigation, development of new ecological science is a slower 9 process than most people appreciate, and much slower than we would like. The CSAMP seeks 10 to provide answers to difficult delta smelt ecology questions that are critical to effective 11 conservation and management. For instance, response variables such as smelt abundance, 12 growth rates, and mortality rates, which are usually driven by multiple factors, can be hard to 13 measure and the relationships between variables are often complicated. The historical record is 14 also incomplete. For instance, some of the most critical information, including winter adult 15 distribution, larval distribution, and turbidity has been sampled for less than twenty years, and 16 some key sampling stations in various surveys have been surveyed less than ten years. Although 17 a great deal has been learned about delta smelt, much more science-related work for this species (and longfin smelt) is needed. Developing new understanding often requires that new field 18 19 sampling approaches be deployed over several years to obtain the observations needed to 20 complete studies.

21 7. Despite the inherent difficulty of the underlying scientific questions and the past 22 opposing litigation positions among the participants, the CSAMP has made excellent progress 23 during its first ten months. Among other accomplishments since the Court's April 2013 Order: 24 (1) a two-tier organizational structure (a Policy Group and the Collaborative Adaptive 25 Management Team (CAMT)) has been established to implement the CSAMP: (2) a mission 26 statement and standards for meeting conduct have been developed; (3) three priority topics of 27 urgency and relevance have been agreed upon; (4) a framework and process for collaboration has 28 been developed; (5) expert subgroups to support the process have been created; and (6) work Decl. of Ren Lohoefener Supp. of Movants' Civ. No. 09-407-OWW Status Report & Mot. for Remand Extension 2

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plans to address the priority topics of urgency have been drafted. A detailed discussion of these
 efforts is included in the Progress Report to the Collaborative Science Policy Group.

8. As noted in the prior paragraph, CSAMP has created expert subgroups to support the
 process. More specifically, the CAMT, an eleven-member working group of high-level
 managers and senior scientists, has created these expert subgroups to focus on fall outflow,
 entrainment, and South Delta salmon survival. These three priority issues were areas of
 fundamental disagreement in the 2008 Smelt BiOp, the National Marine Fisheries Service's 2009
 Biological Opinion ("2009 Salmon BiOp"), and associated litigation.

9 9. In regards to each of the two issues that affect delta smelt (fall outflow and 10 entrainment), the CAMT has acknowledged the roles of existing scientific and adaptive 11 management efforts pertaining to these issues, and has developed a new set of questions that 12 incorporate stakeholder viewpoints. The CAMT has assigned subgroups to review and discuss 13 conceptual models, ascertain areas of agreement and disagreement in regards to the conceptual 14 models, and develop key questions and draft hypotheses. These CAMT studies will be 15 implemented alongside existing science and adaptive management processes. The schedule for 16 implementation is outlined in Table 2-2 and further detailed in the attached Progress Report to 17 the Collaborative Science Policy Group. It is expected that answers to these key questions will, 18 along with the findings of the other processes, contribute to answering questions about the 19 relative importance of drivers and mechanisms. To the extent that these findings help refine or 20 more precisely focus protective actions for delta smelt than was previously possible, I expect the 21 processes to contribute to more efficient use of resources and progressively greater agreement 22 among all interested parties. The subgroups have proposed work plans that will produce results 23 in the coming year.

10. As detailed in the Progress Report to the Collaborative Science Policy Group, the
CSAMP has also provided an approach for continued work on model development. As noted in
my previous declaration, multiple independent peer reviews, including the National Research
Council review, have identified a lack of quantitative models as a shortcoming in developing and
implementing the 2008 Smelt BiOp. The collaborative science process currently underway
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offers the opportunity to work with the various State, Federal, and private stakeholders involved
 in the CSAMP to use existing models that have been developed and to further develop those and
 other models. We can use those models to make predictions about system responses to
 management actions. The models are a quantitative description of our understanding of how the
 system works.

6 11. After a series of productive discussions and technical group sessions in 2013 and 7 January 2014, the CAMT has agreed to jointly consider the application of important modeling 8 efforts to potentially: (a) improve our understanding of entrainment impacts, in terms of 9 percentage of the population; (b) improve our understanding of the population viability consequences of water project effects; and (c) refine the existing protective measures for entrainment by increasing emphasis on prevention of the conditions that create entrainment risk. Because of the technical difficulty involved with these undertakings, completing the proposed modeling efforts will require at least two additional years and new resources. In the likely event that technical hurdles prove more challenging than currently projected, additional time may be required. Despite these potential constraints, the Service believes that it is worth pursuing these important efforts, which may help us better understand the relationship between management actions and environmental responses.

18 12. As discussed in my previous declaration, the Service and the U.S. Bureau of 19 Reclamation (Reclamation) – through the Interagency Ecological Program (IEP) – have been 20 utilizing the Fall Outflow Adaptive Management Program (FOAMP) as part of the 21 implementation of the Fall X2 action in the 2008 Smelt BiOp RPA. The FOAMP was designed 22 to evaluate the effectiveness of the RPA action and potential alternatives to it over a ten-year 23 period. The collaborative efforts of dozens of agency and academic scientists who have 24 contributed thousands of hours of effort to the program have produced many important products 25 that are relevant to the issues addressed in the BiOp. The Modeling and Synthesis Team 26 ("MAST") Report by the IEP that is due out in winter 2014 represents a major effort to integrate 27 the results of Fall Outflow studies undertaken since 2011. Results from this study will be 28 important when the Service prepares a new Biological Opinion. We are working to make the Decl. of Ren Lohoefener Supp. of Movants' Status Report & Mot. for Remand Extension 4 Civ. No. 09-407-OWW

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1 next phase of this investigation a part of CSAMP by expanding the scientific leadership of the 2 effort to include stakeholder groups, as well as by giving the CAMT a role in management of the 3 scientific content of the program. Additional time to continue the CAMT work to develop new 4 scientific information in coordination with the FOAMP will enhance both efforts, benefitting the 5 science used in development of the new Biological Opinion.

6 13. Since this Court's April 2013 Order, substantial work has been done related to the 7 turbidity models that I discussed in my previous declaration. In 2013, the Service worked 8 closely with Metropolitan Water District (MWD) and others on the application of these models 9 to the question of whether stronger "preventive" actions designed to reduce early entrainment risks might pay off in the form of a reduced need for "curative" actions designed to manage entrainment once substantial risks already exist. The Service and MWD presented proof-ofconcept modeling results to an independent expert panel provided by the state's Delta Science Program in November. Interested CAMT members are already participating in the development of next steps in the analysis, and we expect the CAMT to play a key role in the development of an analysis of potential prevention scenarios for a meeting with the same independent panel in late 2014. In February, 2014, the Service, with the assistance of Reclamation, initiated a new delta smelt sampling regime that will work in concert with the turbidity models to better provide decision space for water managers.

14. Information collected from the new sampling regime will assist in addressing a key CAMT work plan question regarding the effect of various environmental variables on entrainment risk. Giving the CAMT additional time to address those entrainment questions will improve the Service's ability to design and interpret early warning monitoring in the future. As already noted, the new early warning monitoring will work in concert with turbidity and distributional information that is also being developed to better provide decision space for water 25 managers during the drought.

26 15. Dr. Ken Newman of my staff is working to build a life cycle model (LCM) 27 combining the current knowledge of the species life history with the extensive trawl survey data 28 on distribution and abundance of delta smelt. Phase 1 of this effort is developing a life history Decl. of Ren Lohoefener Supp. of Movants' Status Report & Mot. for Remand Extension 5 Civ. No. 09-407-OWW

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1 model for delta smelt, and Phase 2 will either develop multiple single species life history models 2 for one or more fish species, or a single integrated multi- species life history model. A 3 presentation of Newman's delta smelt LCM work was given in May 2013. The model reached a 4 milestone state of development and a first publication is in preparation. In addition, the Service 5 has hired a PhD graduate, Leo Polansky, for a minimum of 2 years, to provide technical 6 assistance with ongoing preliminary exploratory data analysis, state -space model formulation, 7 and model fitting. Also in May 2013, Dr. Newman began collaborative work with David 8 Fullerton (MWD) and Mark Maunder (Inter-American Tropical Tuna Commission), with the 9 latter providing technical assistance with model fitting using AD Model Builder.

10 16. At the time of my previous declarations, the CSAMP was a fledging effort involving 11 an unprecedented level of collaboration. As of the date of this declaration, we are now seeing 12 the first results of the collaboration and I believe it holds great promise for developing 13 collaborative joint science that will be used to answer difficult questions. I strongly believe this 14 process is a much better solution than using the courtroom to test scientific hypotheses or seek 15 collaborative solutions. Fully developing the CSAMP will take time, however. A further 16 extension of the remand schedules is both necessary and warranted to provide more time to allow 17 this collaboration to fully develop and produce the result we are all looking for: a collaborative 18 science based effort that resolves difficult issues.

19 17. The collaborative spirit fostered by the CSAMP has allowed the principals to 20 produce results in areas beyond the remanded BiOps. In particular, in late 2013 the state and 21 federal agencies met a major milestone in the BDCP process, with the release of the draft BDCP 22 and draft Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) for public 23 review. As noted in my December 7, 2012 declaration, the BDCP is a conservation plan being 24 developed pursuant to the Endangered Species Act and state Natural Communities Conservation 25 Plan Act (NCCPA). BDCP is a high priority for the State of California, and the federal 26 government is being responsive to the State's needs by devoting substantial staff and resources to 27 help the state develop a scientifically rigorous plan. I do not believe that this significant

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achievement would have been possible if the parties had remained in an adversarial posture
 regarding the smelt and salmon BiOps.

18. In addition, the previously adversarial parties have continued to work collaboratively
through the CSAMP and other processes despite the tension caused by poor hydrologic
conditions currently being experienced in many parts of California. While to date this water
year no restrictions on water exports have been needed to ensure the survival of delta smelt, the
collaborative relationship has been instrumental in finding solutions for human health and safety
in this difficult water year.

9 19. If the Court declines to grant a further extension of the remand schedule in the smelt
10 case, the Service will be required to prepare a new BiOp by the end of 2014. We believe that the
11 likelihood of facing a legal challenge to that BiOp would be significant, which would return the
12 parties to their adversarial corners at a time when continued collaboration is imperative. Thus,
13 for this, and the reasons discussed above and detailed further in the attached Progress Report to
14 the Collaborative Science Policy Group, we are seeking another year to make additional progress
15 on the CSAMP and the development of collaborative science.

I declare under the penalty of perjury under the laws of the State of California and the United States, that the foregoing is true and correct to the best of my knowledge.

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Dated this 14th day of February, 2014

Lohoefener

Director, Pacific Southwest Region U.S. Fish and Wildlife Office

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