

CENTRAL VALLEY
REGIONAL WATER QUALITY CONTROL BOARD

ITEM 7

CONSIDERATION OF RESOLUTION APPROVING THE CLEAN
WATER ACTION SECTIONS 305(b) AND 303(d)
INTEGRATED REPORT OF THE CENTRAL VALLEY REGION

THURSDAY, JUNE 11, 2009

HELD AT
CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD
RANCHO CORDOVA, CALIFORNIA

COPY

REPORTED BY:

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ATTENDEES

BOARD MEMBERS:

KARL E. LONGLEY, CHAIRMAN
KATE HART
DAN ODENWELLER
SANDRA O. MERAZ
NICOLE BELL

STAFF:

PAMELA CREEDON, EXECUTIVE OFFICER
KENNETH LANDAU
JERRY BRUNS
DANNY McCLURE

COUNSEL:

LORI OKUN

INTERESTED SPEAKERS:

LENWOOD HALL
JIM WHITFIELD
DEAN MARSTON
TOM WHEELER
JON NELSON
RICHARD McHENRY
ART O'BRIEN
KEN PETRUZZELLI
ERIC ATHORP
THERESA DUNHAM
KARNA HARRIGFELD
ARTHUR GODWIN
ZEKE GRADER
DAVE TAMAYO
DELIA McGRATH
MICHAEL BRYAN
ED CHESLAK
DEAN RUIZ

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RANCHO CORDOVA, CALIFORNIA
THURSDAY, JUNE 11, 2009, 9:15 A.M.

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CHAIRMAN LONGLEY: We are back in session.
We are on agenda Item No. 7. This is the time and place for receiving comments on the proposed 303(d) list of impaired water bodies and the 305(b) list on water quality conditions for the Central Valley region.

Anyone present who wishes to comment on this matter?

I have lots of cards here.

Since there are parties who are wishing to comment on this matter, we will proceed. This meeting will be conducted in accordance with the meeting procedures published with the meeting agenda. At this time, comments should be presented on the proposed listings.

Parties will normally be given three minutes to present comments. And I have had some requests for additional time. There is some indication the number of people wanting to testify. When you come up, if you need additional time, other than three minutes, please request it. Once again, if you're part of a group, if you can get together and pool

1 your comments, that would help us today.

2 Regardless, we want to hear what you have to say.

3 We will now go with the staff presentation.

4 MR. BRUNS: Good morning, Chairman Longley,
5 Members of the Board. I am Jerry Bruns. I am the
6 Regional Board Program Manager for the TMDL program.

7 Today, the Board will be considering approving
8 recommendations to send to the State Board regarding
9 the region's impaired water bodies and condition of
10 the other water bodies in the region. I am going to
11 provide a brief overview, and then Danny McClure is
12 going to provide the details. I have also with me
13 Amanda Montgomery, sitting at the front table. She
14 is the unit leader of the San Joaquin TMDL Unit. We
15 have other staff also available to help answer
16 questions and address comments.

17 As Danny will explain, this effort will
18 satisfy requirements of the federal Clean Water Act
19 for states to assess their water bodies and
20 periodically report to EPA. In his presentation,
21 Danny will be referring to an Integrated Report. In
22 the past, the exercise of identifying impaired water
23 bodies and the general exercise of assessing the
24 condition of our waters was often done as separate
25 efforts and presented in separate reports. These

1 two efforts have been brought together and combined
2 into one report that is called the Integrated
3 Report. That is what you are going to be hearing
4 about today.

5 It is important to recognize how this
6 assessment effort fits in with the overall Regional
7 Board's process for water quality control. The
8 Board's programs are generally, and you can see
9 generally from this circular chart we presented
10 here, basically supported by laws and regulations
11 that have the rules that govern what we are supposed
12 to do, how we are supposed to do it, including the
13 Basin Plan, which has water quality objectives,
14 beneficial uses and plans and policies for making
15 sure those are achieved.

16 The Board implements control programs to make
17 sure that the water quality is sufficient to protect
18 the beneficial uses. And then we have, as going
19 around, a continuous assessment cycle where we see
20 how well we are doing at protecting beneficial uses
21 and how effective our programs are being.

22 So this is sort of a continuous cycle that
23 keeps going around and around. There is quite a bit
24 of overlap. Each of the pieces of the cycle kind of
25 go on at the same time. But right now we are doing

1 the assessment cycle, and that is what this agenda
2 item is about today.

3 As you might imagine, for a region this size
4 this assessment was a massive undertaking. There
5 were hundreds of different data reports from dozens
6 of different data sources to evaluate. We reviewed
7 hundreds of pages of reports and data related to
8 dozens of pollutants and hundreds of water bodies.
9 Staff prepared over 1,800 fact sheets that explain
10 how data was assessed for each water body and
11 providing the rationale for impairment
12 determinations.

13 Staff resources spent on this effort was
14 similar to the resources that it would take to
15 develop a major TMDL. The amount of information
16 analyzed and the number of assessments completed was
17 very similar to what was prepared during the last
18 listing cycle by State Board for the whole state.
19 The entire process from the start of data collection
20 to the present was two and a half years of
21 relatively intensive work. Throughout the process,
22 there was always additional -- there was at least
23 one or two staff working on this. And for the past
24 year and a half, there has been staff in the TMDL
25 and SWAMP programs that have been brought in to

1 assist on the effort. While this greatly improved
2 the Integrated Report, because we were able to bring
3 people together with the expertise and the various
4 contaminants in the various watersheds, it also
5 affected and delayed other work that we were doing
6 in these programs, including work developing TMDLs.

7 However, ultimately the TMDL program will
8 benefit from having a solid assessment framework to
9 support the program. There are several reasons why
10 this effort was done, and I'm just going to briefl
11 talk briefly about what those were.

12 First, as mentioned earlier, a periodic
13 comprehensive assessment like this one provides
14 feedback on the effectiveness of our control
15 programs. Second, the 303(d) list triggers
16 requirements that the impairment be addressed by
17 TMDLs or some other regulatory process. Third, the
18 assessment helps determine program priorities in
19 future years, including which water bodies should be
20 high priority for TMDL development. And fourth,
21 NPDES and other dischargers discharging to impaired
22 water bodies may have additional monitoring
23 requirements, special studies and/or effluent limits
24 included in their permits, while TMDLs and other
25 regulatory programs are under development.

1 That kind of concludes my brief overview. So
2 I am going to turn it over to Danny. As Danny goes
3 through this, it is important to recognize that
4 while a lot of the presentation deals with areas
5 where there are differences of opinion, there really
6 is little controversy associated with much of the
7 Integrated Report. Also, it is important to
8 understand the process we used for evaluating the
9 bodies was largely determined by State Board policy
10 and State Board and EPA guidance. So with that, I
11 will turn it over to Danny.

12 MR. McCLURE: Good morning, Chair Longley,
13 Members of the Board. I am Danny McClure, an
14 engineer with the TMDL program in the Sacramento
15 office. I was lead in developing the 303(d)
16 Integrated Report under the supervision of Jerry
17 Bruns.

18 Here is an overview of what I will be
19 presenting this morning. First, I will provide some
20 background on the 303(d) list and what the
21 Integrated Report is, the requirements for updating
22 the 303(d) list under the state's listing policy.
23 Next, I will discuss the Integrated Report, the
24 methodology used to prepare it, and the results
25 which is the Draft Final Integrated Report. Then I

1 will discuss comments received and responses to
2 those comments. Then I will discuss next steps in
3 the process. Finally, I will review my presentation
4 and provide the staff recommendation.

5 There is a lot of information to present.
6 Please feel free to ask questions anytime in my
7 presentation, and I'll also stop periodically for
8 clarifying questions.

9 So what are the 303(d) list and 305(b) report?
10 Their names come from sections of the federal Clean
11 Water Act. Clean Water Act Section 303(d) requires
12 states to periodically develop lists of water bodies
13 that are impaired. Meaning they are not meeting
14 water quality standards. That's referred to as the
15 303(d) list.

16 Clean Water Act Section 305(b) requires the
17 state to report on its overall quality of waters.
18 So that is called the 305(b) report. USEPA guidance
19 recommends that states submit a single Integrated
20 Report, which includes both the 303(d) list and
21 305(b) report. So that is what I am referring to
22 when I say the Integrated Report.

23 Some background on the 303(d) list. In
24 California, the 303(d) list is updated every two to
25 four years. When something is placed on the 303(d)

1 list, it requires a regulatory response to address
2 the impairment. The types of regulatory responses
3 that are appropriate are described in the state's
4 policy for addressing impaired waters. The response
5 can include development of a total maximum load, or
6 TMDL. It can also include revision of the standard
7 and/or delisting if more detailed evaluation shows
8 the standard is inappropriate or the listing was not
9 valid. The Board can also make a finding that an
10 impairment is being addressed by third actions,
11 other than a TMDL.

12 The 303(d) listings are also a consideration
13 in other regulatory requirements. For example,
14 additional monitoring, special studies and permit
15 limits may be added to permits for dischargers that
16 discharge to impaired waterbodies.

17 In 2004, the State Water Board adopted a
18 listing policy, which all the regions and State
19 Board must following in developing the 303(d) list.
20 The listing policy requires us to assess all
21 regularly available data. It also describes how the
22 data must be analyzed. The listing policy includes
23 a statistical test that must be used on all data to
24 determine whether something should be listed or
25 delisted.

1 In addition, it makes provisions for
2 consideration of a weight of evidence as an
3 alternative to the default statistical test. The
4 listing policy also describes the administrative
5 policy for adoption of the list, including
6 soliciting data and responding to comments.

7 In my discussion I will highlight some of the
8 listing policy sections which guided our actions.

9 In contrast to the 303(d) list, the 305(b)
10 report looks at all waters, not just the impaired
11 ones. The emphasis of the 305(b) report is how many
12 of the waterbodies are supporting their beneficial
13 uses. The 305(b) report is also updated
14 approximately every two years.

15 I will stop for clarifying questions, if there
16 are any. If there are none, then I will move on to
17 talk about the 2008 Integrated Report.

18 This slide shows where we are in the process.
19 The previous 303(d) list, or the current 303(d)
20 list, was adopted by State Board in October 2006 and
21 finalized by EPA in 2007. Solicitation of data for
22 the current 303(d) list update ended in February
23 2007. Staff held a workshop on potential
24 temperatures listings in the San Joaquin River
25 watershed in September 2007.

1 In January 2008, about two years after the end
2 of the solicitation period, we released a Draft
3 Integrated Report for a 45-day period, ending in
4 March. During that review period, we had a public
5 meeting to discuss comments. After we received all
6 the comments, staff read and responded to comments,
7 making changes to the Integrated Report where
8 appropriate. This was all included in the Draft
9 Final Report, which was released a month ago.

10 So that brings us to the hearing today, where
11 the Integrated Report, including proposed changes to
12 the 303(d) list, are being brought to the Board for
13 your potential approval.

14 After the Integrated Report is approved, it
15 will be forwarded to the State Water Board for
16 inclusion in a statewide Integrated Report, which
17 will also go through a public process. Finally,
18 this will all go to EPA for final approval authority
19 on the 303(d) changes.

20 The scope of development of the Integrated
21 Report was direct application of the listing policy
22 and existing water quality standards. It did not
23 include reevaluation of the designated beneficial
24 uses or water quality objectives. The listing
25 policy requires us to look at all available data.

1 I'll go into the data sources more in a couple
2 slides.

3 So, we had data for 386 waterbody segments.
4 We also had data for over 70 pollutants. Over 1,800
5 fact sheets were prepared. Each of those fact
6 sheets documents a proposed decision on a potential
7 change to the 303(d) list. The results of the over
8 80,000 samples were looked at in coming up with our
9 recommendations.

10 This map here shows where the 386 waterbody
11 segments assessed are located. As you can see, we
12 have pretty good coverage of the waters in the
13 region for this report. The first step in
14 developing the 303(d) list update and Integrated
15 Report was to assemble the data. Staff assessed the
16 data in the 18 submittals we received. We also
17 assembled all the data that was readily available as
18 of the close of the solicitation period in January
19 2007. Data were available from several internal and
20 external sources that are shown here. The major
21 data sources are shown here. There were others.
22 So, as you can imagine, there was a lot of new data
23 not assessed before.

24 After staff assembled the data, it was assessed
25 by comparing to water quality objectives. These

1 include the numeric water quality objectives in our
2 Basin Plan. Examples of these include the Basin
3 Plan objectives for dissolved oxygen, pH, bacteria,
4 trace elements, such as selenium, and some
5 pesticides, such as diazinon. Another example are
6 the drinking water maximum contaminant levels.

7 We also compared data to the California Toxics
8 Rules criteria, which was promulgated by USEPA in
9 California. So the CTR numbers are treated the same
10 as numeric water quality objectives in preparing the
11 Integrated Report.

12 Since we do not have numeric objectives for all
13 the pollutants for which we had data, we also
14 compared data to the narrative objectives in our
15 Basin Plan, such as the narrative toxicity and
16 temperature objectives. This was done under the
17 listing policy by using evaluation guidelines to
18 interpret the narrative objective. The listing
19 policy has requirements for what can be used as
20 evaluation guidelines. These include: they must be
21 protective, applicable, scientifically based and
22 peer reviewed, and well described. Staff followed
23 these listing policy requirements as well as the
24 Basin Plan in selecting the evaluation guidelines
25 proposed for interpreting narrative objectives.

1 Evaluation guidelines used include fish
2 contaminant goals from the California Office of
3 Environmental Health Hazards Assessments for
4 mercury, PCBs and organochlorine pesticides. The
5 evaluation guidelines used also include water
6 quality criteria derived by USEPA for such things as
7 E.coli bacteria, pesticides, ammonia and
8 temperature.

9 So now that I have described the data sources
10 and objectives and guidelines they were compared to,
11 I'll describe the process of developing the
12 assessments to come up with recommended changes to
13 the 303(d) list. We didn't have the resources to
14 write up fact sheets for all of the data, so we
15 prioritized and focused mainly on evaluation of the
16 data that would potentially affect the 303(d) list.

17 So first we screened all the data and
18 identified potential 303(d) list changes where there
19 were exceedances of standards. Those were assessed
20 for potential listing. We also screened the data
21 for potential delistings. Things that were listed
22 where there was attainment of standards.

23 For the waterbody segment pollutant
24 combinations that came out of the screening, we
25 developed detailed fact sheets. The fact sheet

1 contained a proposed decision on a potential 303(d)
2 list change and assessment upon which the proposed
3 decision is based. The assessments are based on all
4 readily available data. For consistency and
5 information management, all these fact sheets were
6 entered into a statewide database which is used to
7 store some of the information and produce some of
8 the reports.

9 The fact sheets contain Internet links to the
10 sources of available data and evaluation guidelines,
11 which has made it easier for people to review what
12 we did and provide feedback. In addition to the
13 fact sheets identified in the screening, staff also
14 prepared fact sheets for all the SWAMP data in order
15 to meet SWAMP program requirements.

16 In assessing the data, we had to make
17 determinations of about how much of a waterbody was
18 represented by the data. Waterbodies were divided
19 into waterbody segments defined by factors such as
20 dams, tributaries and differing land uses.
21 Available data were then assessed for those
22 segments. Many of the smaller waterbodies were not
23 divided into segments, so the assessments were made
24 for the whole waterbody.

25 This was an area where there is some

1 discretion and flexibility as to how the waterbodies
2 are divided, and an area when we got a lot of
3 comments and made a lot of refinements.

4 The 303(d) list decision recommendations in the
5 fact sheets were then determined by looking at how
6 many samples were taken and how many of those
7 standards did not meet the objective. This
8 statistical test in the listing policy was the basis
9 for most of the recommendations.

10 In some cases where criteria or objectives
11 contained an explicit frequency where half of the
12 samples were allowed to be over the concentration,
13 that was also used under the listing policy weight
14 of evidence provisions. The completion date shown
15 on the 303(d) list are the dates that the TMDL is
16 targeted to be brought before the Regional Board.
17 For TMDLs that are currently under development, the
18 new term dates are what we have projected in our
19 work plans. The dates are approximate for other
20 TMDLs, which we anticipate completing in the next
21 several years, and the rest are scheduled further
22 out to the maximum 13 years from the year of the
23 listing cycle. Those are all either 2019 for things
24 already on the list or 2021 for those proposed new
25 listings.

1 Potential source categories on the 303(d) list
2 were determined by what we know about the pollutant
3 and by land uses in the watershed.

4 I will stop again for clarifying questions.

5 CHAIRMAN LONGLEY: Any questions from
6 Members of the Board?

7 You are doing a fine job.

8 MR. McCLURE: So now I will move onto
9 results. Applying the listing policy to the
10 available data, as described, led to 389 proposed
11 additions to the 303(d) list. I would like to
12 emphasize that an increase in the number of listings
13 is not indicative of water quality getting worse,
14 but more likely due to more data being available.

15 There are currently 342 listings for Region 5,
16 so the proposed changes would bring the total to
17 708. Just for context, statewide there are
18 currently about 2,000 listings on the current list.
19 And after this listings cycle, there will probably
20 be about 3,000. And these results I am presenting
21 also include changes to the public review draft made
22 in response to comments, which I will talk about
23 soon.

24 So here is what the proposed listings are,
25 proposed new listings. Of the new ones, most of

1 them are for pesticides, toxicity, mercury and
2 bacteria. And a note on the pesticides, those are
3 divided between currently registered pesticides and
4 those of legacy pesticides that are no longer used
5 and are still a water quality problem, such as DDT.

6 So here is the resulting list with the
7 proposed changes. The majority of the listings are
8 for pesticides, toxicity and mercury and metals and
9 trace elements. This map shows the current 303(d)
10 list waterbodies and the proposed new ones. Just to
11 show the geographic extent of the proposed listings.

12 So here is what the proposed 303(d) list looks
13 like for the Central Valley. This map also shows
14 waterbodies in blue that were assessed but not found
15 to be impaired. The 303(d) list update also
16 includes 23 proposed delistings. Some of these
17 document water quality improvements that are success
18 stories for this region, such as diazinon in the
19 Sacramento Feather and San Joaquin Rivers, metals in
20 the Sacramento River near Redding, bacteria at
21 Whiskeytown Reservoir, and selenium in the San
22 Joaquin Valley.

23 The delistings also include correction of one
24 erroneous listing for 2006 and a delisting for the
25 San Joaquin River for salt. And the green lines on

1 this map show waterbodies proposed for delisting --
2 excuse me, waterbodies that have delisting proposed.

3 Now moving onto the 305(b) section of the
4 Integrated Report. I am not going to spend a lot of
5 time since it was not commented on. As I mentioned,
6 the 305(b) report is a report on overall water
7 quality conditions. This is done by determining an
8 overall level of beneficial use support for each
9 waterbody for all the pollutants assessed. These
10 categories come from USEPA guidance.

11 The categories are: For the impaired
12 waterbody Category 5, which is impaired and
13 requiring a TMDL. Category 4 is impaired, but not
14 requiring a TMDL.

15 For the waterbodies which were not found to be
16 impaired: Category 1 is fully supporting all
17 beneficial uses. Category 2 is fully supporting at
18 least one beneficial use. And Category 3 is not
19 impaired, but there is not enough information to
20 determine beneficial use support.

21 For unimpaired waterbodies staff was
22 conservative in assuming full beneficial use
23 support, unless we had data for a reasonably full
24 suite of pollutants. We did not assume we knew
25 enough to say a beneficial use was fully supported.

1 This resulted in more unimpaired waterbodies being
2 classified as having insufficient information,
3 Category 3. This approach provides a more accurate
4 baseline for future assessments. 305(b) categories
5 do not affect the listing decisions. They are
6 largely as a result of the listing decisions. The
7 303(d) decisions, in other words, largely control
8 what category a waterbody goes into.

9 Here are the results for the 305(b) assessment.
10 There are 260 Category 5 requiring at least one
11 TMDL. Six Category 4. Those were impaired, but
12 they have TMDLs for all pollutants so they don't
13 need a TMDL. Don't need a new TMDL. Ninety-six
14 Category 3, which were not found to be impaired, but
15 there was insufficient information to determine full
16 beneficial use support. And there are 24 in
17 Category 2. This was based on their being no
18 impairment and a finding that bacteria
19 concentrations were low enough to fully support the
20 water contact recreation beneficial use.

21 I will stop again for clarifying questions
22 before moving onto comments and responses.

23 CHAIRMAN LONGLEY: Any questions from
24 Members of the Board?

25 Thanks. Please proceed.

1 MR. McCLURE: We received over 30 comment
2 letters on the public review draft. Some of which
3 were quite extensive. We don't have time today to
4 go through each of the commenters' comments, but I
5 will be discussing the major comments. Most of
6 which you will likely be hearing more about from the
7 commenters. These comments came from federal, state
8 and county governments, environmental groups,
9 agricultural groups, pesticide manufacturers, water
10 rights holders and municipal storm water and
11 wastewater discharges. We received comments on
12 approximately 150 assessments, mostly on the
13 proposed new listings. So comments on about or
14 related to about 40 percent of the proposed
15 listings.

16 We received a few comments opposed to proposed
17 delistings. We received several comments in favor
18 of taking things off the 303(d) list, but staff did
19 not propose to take off the 303(d) list, and a few
20 in favor of adding things to the 303(d) list, which
21 staff did not propose to add to the 303(d). Some of
22 the comments were an expression of general support
23 for the proposed 303(d) changes. As I mentioned
24 earlier, there were no comments on the 305(b)
25 categories.

1 A common comment was that the water quality
2 objective and/or beneficial use upon which the
3 proposed listing was based are inappropriate.

4 The staff response is that the reevaluation of
5 water quality objectives and designated beneficial
6 uses was outside the scope of this project. But the
7 comment should be forwarded to our triennial review
8 where the standards in our Basin Plan can be
9 prioritized for reevaluation.

10 Another comment we received was that some of
11 the proposed metals listings were inappropriate
12 since they were based on total metals concentration
13 and that the CTR water quality criteria were for
14 dissolved concentrations only.

15 After reviewing this issue, staff revised our
16 metals assessments for the relevant metals and made
17 them based on dissolved data only. This resulted in
18 the withdrawal of several proposed metal listings.
19 Mostly for copper.

20 Another comment we received was that the
21 evaluation guidelines used for pesticides were
22 inappropriate. Staff response was that we followed
23 the Basin Plan in selecting the evaluation
24 guidelines used.

25 When numerical water quality objectives are

1 not available, our Basin Plan instructs us to use
2 EPA or other criteria to evaluate compliance with
3 our narrative toxicity objective. In places where
4 appropriate criteria are not available, the Basin
5 Plan provides guidance on how to use available data
6 on toxicity of pesticides to sensitive aquatic
7 species to determine interim limits. For several
8 pesticides there were no numerical objectives or
9 appropriate numerical criteria to use. So we
10 evaluated data in the manner recommended in the
11 Basin Plan. Some listings were proposed on these
12 evaluations. We made sure the toxicity values used
13 were appropriate for evaluating data under the
14 listing policy.

15 Another comment we received was that we should
16 use a different value to assess contaminant levels
17 in fish tissue. Our response was that the OEHHA,
18 that is the Office of Environmental Health Hazard
19 Assessment, number used was appropriately protective
20 for consumer's fish and consistent with other state
21 and Regional Board assessments in past 303(d)
22 lists.

23 CHAIRMAN LONGLEY: Could you comment on
24 that a little farther? Fish tissue, is this
25 primarily in the Delta for mercury?

1 MR. McCLURE: No. Throughout the region.
2 I think this was primarily in reference to organo
3 pesticides.

4 CHAIRMAN LONGLEY: So both in the
5 Sacramento and San Joaquin Rivers?

6 MR. McCLURE: I believe so. I'm not sure
7 exactly what, but I know it was in reference to some
8 Sacramento and American River proposed listings.

9 CHAIRMAN LONGLEY: By the time you are
10 done, if you can give me some more information on
11 that, I would appreciate it.

12 MR. McCLURE: Sure. I will look it up.

13 Many comments were submitted on the proposed
14 temperature listings for the San Joaquin and its
15 major tributaries. These comments came from the San
16 Joaquin River Group Authority and others.

17 As I mentioned earlier, we hosted a workshop
18 in September 2007. Shortly after we received data
19 submitted requesting to list from the Department of
20 Fish and Game. The comments we received discussed
21 that the natural temperature condition had not been
22 determined, that the criteria used to assess the
23 data was not attainable, that temperature was not
24 the cause of the decline of salmon, that the
25 criteria used to assess data was inappropriate.

1 And I'll go into the criteria in the next
2 slide. Also, the narrative temperature objective in
3 our Basin Plan was not applicable and that the
4 beneficial use designation designated in our Basin
5 Plan do not exist since fish populations are not
6 healthy.

7 Staff's general response was that we followed
8 the specific listing policy requirements for
9 assessing temperature data that led us to
10 recommendation to list. We also followed the
11 recommendation of the Department of Fish and Game on
12 the state of the species, potential contribution and
13 appropriate temperature thresholds to support
14 salmon.

15 The available data showed that temperatures in
16 these rivers do not support healthy salmon habitat
17 during multiple, critical life stages. Migration
18 and spawning for these fish in the waterways under
19 discussion are designated as beneficial uses in the
20 Basin Plan.

21 Another comment relative to the temperature
22 listings was that USEPA Region 10 criteria for
23 temperature for the Pacific Northwest were
24 inappropriate to use as evaluation guidelines.

25 Staff's response is that these were the best

1 available criteria, and they were recommended by the
2 Department of Fish and Game. The criteria were
3 applied appropriately by using the correct criteria
4 for the species of salmon present, when and where
5 their critical life stages occurred. It is also
6 worth noting that the criteria for migration were
7 comparable to the numeric temperature objectives in
8 Basin Plan for the Sacramento River.

9 We received several comments related to the
10 data, which was not included in draft assessments.

11 Staff's response was that we made efforts to
12 include the data that was readily available,
13 especially when it approved the accuracy of the
14 Integrated Report. This resulted in the withdrawal
15 of the proposed listings of Pleasant Grove Creek for
16 low dissolved oxygen, the Middle Fork of the Feather
17 River for low dissolved oxygen, and the Lower Kern
18 River for high pH, which I will touch upon later as
19 a late change.

20 Staff did not, however, continually accept and
21 attempt to incorporate new data that was generated
22 after the solicitation period ended. If we did
23 that, we would never get done, as new data is
24 constantly generated, and also the new information
25 is best incorporated in future listing cycles. So

1 all new data sources can be assessed, not just ones
2 that happen to be presented to us.

3 We received several comments that the
4 assessments were based on limited data and more
5 information should be considered. This same concern
6 was stated by a discharger in response to proposed
7 new listings and also by CALSPA, which is an
8 environmental group, in response to some of the
9 proposed delistings.

10 Staff's response was that the listing policy
11 requires that the decisions be made with existing
12 data and that the 303(d) list can always be revised
13 when more data is available.

14 Another comment related to several proposed
15 listings was that there weren't enough samples above
16 the objectives to list using the statistical test in
17 the listing policy.

18 The staff's response is that where the
19 criteria or objective that was used to evaluate data
20 contained an explicit frequency for how the samples
21 are allowed to be over the concentration.
22 Compliance with that was also assessed. This was
23 appropriate under the listing policy evidence
24 provisions. Fact sheets were clarified to better
25 document this basis for the recommendations.

1 We received several comments on how we propose
2 to divide the waterbodies into segments. The
3 concerns include that the waterbody should be
4 further divided into smaller segments and/or the
5 extent being proposed for listing as impaired based
6 on the available data was too large.

7 Staff's response was that, in general, the
8 waterbodies had been divided into segments following
9 the listing policy considerations, such factors as
10 dams, tributaries and different land uses.
11 Available data were then assessed to determine water
12 quality in those segments. In several cases how a
13 waterbody was split into segments and/or the extent
14 of the proposed listing was revised based on
15 information provided.

16 Another comment was that the listings for the
17 Delta waterbodies were not clearly defined.

18 In response, staff generated maps and lists of
19 what would be considered Delta waterways in these
20 listings. It should now be very clear what they
21 mean. The maps and lists are included as Appendix
22 I.

23 We received some comments and concerns on the
24 general topic of the potential impact of 303(d)
25 listings, that the listings have negative effects.

1 This was mostly in regard to the proposed septic
2 tank regulations from the State Water Board.

3 The general response is that we are required,
4 under the Clean Water Act and the listing policy, to
5 list when data indicates standards aren't being met.
6 We recognize that listing a warterbody as impaired
7 may have long-term and short-term consequences for
8 dischargers that contribute to the impairment.
9 Requirements and permits may relate to the 303(d)
10 list, but their development and adoption are
11 separate processes to which some of the comments
12 should be directed. For example, comments on the
13 State Water Board's proposed septic tank regulation
14 should be directed to the appropriate State Water
15 Board contact.

16 Another comment was that TMDLs may not be
17 needed for some listings since the impairments are
18 already being addressed by an existing program.
19 This comment was made by several National Forests
20 and coalition groups under the Irrigated Lands
21 Regulatory Program.

22 Staff's response was that there are specific
23 EPA criteria in the Integrated Report guidelines
24 that must be met to determine that an existing
25 program can take the place of a TMDL. And from the

1 information provided by commenters, it was not
2 apparent that all those criteria were met.

3 We work with entities to help them develop
4 programs that can meet EPA criteria for alternatives
5 to TMDLs. Also, one of the first steps we take when
6 we start to work on a TMDL is determine whether a
7 TMDL really needs to be developed. So if we
8 determine a program is in place that addresses the
9 impairment in a timely manner, we will not be
10 developing a duplicate TMDL. And the Board can
11 revise the 303(d) list to place the waterbody in
12 the appropriate category.

13 USEPA had a comment on the bacteria
14 assessments, that some of the assessments where
15 staff initially concluded that they should not be
16 listed seem to support listing on the 303(d) list,
17 and that EPA might list these waterbodies or
18 bacteria if the Regional Board does not.

19 In response, staff looked at our bacteria
20 assessments, reevaluated them. As a result, one
21 additional bacteria listing was proposed. Staff
22 found no other listings warranted under the listing
23 policy.

24 Another comment, which we will be hearing more
25 about today, is that the pyrethroid listings are

1 inappropriate, that the proposed pesticide listings
2 are based on one line of evidence and that the
3 benthic community data do not support listing and
4 should be given more weight than the toxicity data
5 used to list.

6 Staff's response is that the listings are
7 required under the listing policy. We have valid
8 chemistry and toxicity data showing toxicity caused
9 by the pyrethroids. The bioassessment data provided
10 do not negate the chemistry and toxicity data. The
11 approach staff used on the listing policy is also
12 consistent with USEPA's policy of independent
13 applicability with regard to the use of biological
14 community data, which states that each test be a
15 chemistry, toxicity and biological community
16 measures, have independent measures and one does
17 negate nor override the other.

18 Another comment on the algal toxicity test
19 having uncertainty in the results. And the
20 observed toxicity for some waterbodies may be due to
21 such factors as low salinity in the samples or other
22 properties of the water.

23 Staff's response was that this test is an
24 established EPA test, and the listing policy
25 requires us to list when we have data showing algal

1 toxicity. Also, the affects of waters on the test
2 was not demonstrated, since some tests did not show
3 toxicity. There is insufficient information
4 available to support the contention that the
5 toxicity observed was due to some inherent property
6 of the water, such as low salinity.

7 We received a comment from the San Joaquin
8 River Group Authority requesting that we delist the
9 Stockton Deep Water Ship Channel in the Delta near
10 Stockton for low dissolved oxygen since data
11 collected during the aerator demonstration project
12 showed standards are being attained.

13 Staff responded that the data from the
14 immediate vicinity of the area is not representative
15 of the entire impaired segment. Also, the aerator
16 is being operated as part of a two-year
17 demonstration project, so these data are not
18 necessarily representative of a real change in
19 conditions. And to further illustrate that, the
20 bond funding for the aerator may be on hold. So the
21 aerator may not be operated this summer,
22 unfortunately.

23 Finally, there were a number of comments on
24 apparent errors in the fact sheet in the public
25 review draft. All of those were examined and

1 corrections made to the fact sheet when appropriate.
2 When we made corrections in response to comments, we
3 also looked for and corrected any systematic errors
4 that came to as a result -- came to light as a
5 result of the comments.

6 Just to quickly summarize the response to
7 comments. We received numerous comments from
8 diverse stakeholders. We made changes where
9 appropriate, and this resulted in several proposed
10 listings being withdrawn. Most of which were the
11 metal listings I discussed. The changes in response
12 to comments also involved one additional listing,
13 revisions to the extensive proposed listings,
14 changes to the potential sources and TMDL completion
15 dates in the proposed 303(d) list. The comments
16 received overall improved the accuracy of the
17 report.

18 There are a few late revisions before you. One
19 is a revised fact sheet for pH in the Lower Kern
20 River. This was proposed for listing in the Draft
21 Final Report, but included some NPDES data which
22 ideally we should have included in the original
23 assessment. Caused us to no longer recommend this
24 to be listed. This late change --

25 CHAIRMAN LONGLEY: Just one second. Do you

1 have that fact sheet, or where can I find it?

2 MR. LANDAU: It should have been handed out
3 to you.

4 CHAIRMAN LONGLEY: I don't have it. It is
5 lost in all the paper.

6 MR. LANDAU: It is being handed out to you
7 now.

8 MR. McCLURE: Sorry about that.

9 CHAIRMAN LONGLEY: Okay.

10 MR. McCLURE: Should I go on?

11 CHAIRMAN LONGLEY: Yes, go ahead.

12 MR. McCLURE: This late change results in
13 one less listing than the number shown in the staff
14 report. This also causes the lower Kern River to be
15 moved to a nonimpaired 305(b) category since it has
16 no other impairment listings.

17 There are also a couple of minor late
18 revisions. The San Joaquin River, as mentioned
19 earlier, is proposed for delisting for salt. There
20 was error in the fact sheet that was corrected. So
21 the fact sheet now shows that there were zero
22 exceedances of the salt standard for the period of
23 record analyzed in the fact sheet. This did not
24 change the overall listing or delisting
25 recommendation.

1 Another minor late revision was for the
2 Pleasant Grove Creek pyrethroid toxicity listing.
3 Just the fact sheet. The fact sheet was revised to
4 add a finding to the extent of the impaired reach,
5 to show that the impaired reach was only in the
6 urban areas upstream of Fiddymment Road.

7 MS. CREEDON: Clarify for the record which
8 part of the San Joaquin is being delisted. It is
9 not the entire river.

10 MR. McCLURE: Thank you. Yes. So that the
11 part proposed for delisting is only the San Joaquin
12 River between Stanislaus River and the Delta
13 boundary near Vernalis.

14 CHAIRMAN LONGLEY: To go back to the fact
15 sheet. What was given to me was late revisions. I
16 still don't have the fact sheet.

17 MR. ODENWELLER: Last two pages, Karl.

18 MR. LANDAU: You should have two page. The
19 last two of which -- actually five of which are
20 double-sided. Have one late revision fact sheet.

21 CHAIRMAN LONGLEY: Go ahead, please.

22 MR. McCLURE: So the change of minor late
23 revision was just to the fact sheet for the proposed
24 pyrethroid listing for Pleasant Grove Creek to show
25 that the extent proposed for listing was only in the

1 urban areas upstream of Fiddymment Road. This change
2 to the fact sheet is consistent with the extent of
3 the reach described in the proposed 303(d) list.
4 This did not cling the actual 303(d) list decision
5 recommendation.

6 CHAIRMAN LONGLEY: Also, you show on this
7 the 23 proposed delistings. I have gone through the
8 list here, and maybe I missed some, but I only count
9 20. There is supposed to be shown by
10 strike-throughs. Maybe I'm wrong. Maybe I
11 miscounted. I have gong through it several times.

12 MR. McCLURE: Well --

13 CHAIRMAN LONGLEY: I think what we can --

14 MR. McCLURE: The Appendix A was provided
15 as a kind of -- to help illustrate the exact -- how
16 the 303(d) list will look in terms of what is on and
17 what is not. The Appendix F table of contents would
18 have all the 23 proposed delistings. So I am not
19 sure what the difference is there.

20 CHAIRMAN LONGLEY: We apparently don't have
21 Appendix A.

22 MR. McCLURE: That is thousands and
23 thousands of pages of fact sheets. The table of
24 contents for Appendix A has the list of 23. I just
25 counted them last night, so I probably just made an

1 error in preparing Appendix A.

2 CHAIRMAN LONGLEY: Is Appendix A online?

3 MR. McCLURE: Yes.

4 CHAIRMAN LONGLEY: It is there for review.

5 We need to get this correct before we are going to

6 have a lot of comments. So I think it gives you

7 time to go back and evaluate it.

8 MR. McCLURE: Sure.

9 CHAIRMAN LONGLEY: Any further comments or
10 questions from Members of the Board?

11 Thank you.

12 MR. McCLURE: Almost finished here.

13 CHAIRMAN LONGLEY: I'm sorry. I'm rushing
14 you. I didn't mean to.

15 MR. McCLURE: So moving onto the next
16 steps. Following Regional Board approval, all the
17 Regional Board Integrated Reports go to State Board
18 for inclusion in the statewide Integrated Report
19 that will also go out for comment in late 2009,
20 probably, and go for adoption before the State Water
21 Board in early 2010. State Water Board will
22 consider all contested 303(d) list changes appealed
23 to them and can consider others on their own
24 initiative.

25 The statewide 303(d) list will be adopted by

1 State Board and sent to EPA probably in early 2010.
2 One thing to know is that the State Board can
3 change individual recommendations from the Regional
4 Board. They wouldn't remand the whole list back to
5 the regions as they can with permits or Basin Plan
6 amendments. They simply make the final decision on
7 what to send to EPA.

8 Ultimately, EPA has the finally authority over
9 the 303(d) list. They can fully or partially
10 approve the state's 303(d) list. If they partially
11 approve it, but make changes, such as adding
12 additional listings, which they have done in the
13 past, EPA will solicit comment on those changes.
14 And then after that, we are done and we start again.
15 It's like painting the Golden Gate Bridge. Sometime
16 in 2010, we will begin getting data for the next
17 Integrated Report.

18 CHAIRMAN LONGLEY: Vice Chair indicates
19 that she counted 23, which means I can't count.

20 MR. McCLURE: Thank you.

21 CHAIRMAN LONGLEY: Thank you.

22 MR. McCLURE: Just a quick review of what I
23 presented. First, I went over the background on the
24 303(d) and the 305(b) report. The Integrated Report
25 included both of them. I discussed how staff

1 prepared the Integrated Report by applying the
2 listing policy and comparing the available data to
3 water quality standards. I discussed the results,
4 which is the Integrated Report. Then I summarized
5 how staff had responded to comments, including one
6 resulting -- three resulting late changes. Finally,
7 I talked about what happens in the process following
8 Regional Board approval.

9 In conclusion, based on what I presented,
10 staff is recommending that the Board adopt the
11 Integrated Report for the Central Valley Region,
12 including late revisions, and instruct staff to
13 forward it to State Board to inclusion in the
14 statewide report. That concludes my presentation
15 unless there are any questions.

16 CHAIRMAN LONGLEY: Questions?

17 Thank you very much.

18 At this point in time we are already to go to
19 the public. Mr. Lenwood Hall.

20 Lenwood, I know you want about an hour and a
21 half, but I think I am going to restrict you to five
22 minutes. We will determine at that point how much
23 more we want to hear.

24 DR. HALL: If you give me five minutes, I
25 will be grateful.

1 CHAIRMAN LONGLEY: You're a professor.
2 Talk fast.

3 DR. HALL: The title of this presentation
4 is Public Hearing for 303(d) Listing of Pleasant
5 Grove Creek for Pyrethroids.

6 Now Pleasant Grove Creek, for your
7 information, is a residential stream located in
8 Roseville, California. And pyrethroids are
9 insecticides that are used in the urban environment
10 for structural pest control, landscape maintenance,
11 as well as home and garden use.

12 Now, just by way of introduction, my name is
13 Lenwood Hall, Jr. I am an aquatic toxicologist with
14 the University of Maryland. I am here representing
15 the Pyrethroid Working Group. My areas of expertise
16 are aquatic toxicology, bioassessments and
17 ecological risk assessment. I have conducted
18 various water quality related studies in the state
19 of California since 1994.

20 Now the issues of concerns that I would like
21 to talk about today are listed with these four
22 bullets. The first one is that Pleasant Grove Creek
23 and its tributaries have been listed as impaired
24 waterbodies based on the presence of pyrethroids.
25 Now this proposed 303(d) listing is based on results

1 from what we call a single species sediment toxicity
2 test, along with concurrent chemical measurements,
3 and this particular work was done in 2004.

4 Now I believe that this proposed listing is
5 inappropriate due to data that we have collected at
6 the University of Maryland during a two-year
7 bioassessment, multiple stressor study in Pleasant
8 Grove Creek and its tributaries in 2006 and 2007.

9 My final issue of concern is: I believe that
10 the regional staff determination that no one line of
11 evidence takes priority over others can also be
12 challenged. Now, really the point of concern here
13 is which type of assessment tool provides you with
14 the best information for determining impairment in a
15 warterbody. I believe there is advantages in using
16 bioassessment data versus single species toxicity
17 data.

18 For your information, bioassessments are
19 essentially the science of determining the condition
20 of a warterbody based on the presence of the
21 organisms that actually live in that warterbody. In
22 other words, it is a biological monitoring type
23 approach. Bioassessments provide what we call time
24 integrated observed response on the condition of
25 resident communities in the aquatic system.

1 Bioassessments also provide a way to determine
2 attainment of designated use of the beneficial use
3 of the waterbody, such as warm and cold fresh water
4 habitat. Bioassessments also are very closely
5 aligned with the goals of the Clean Water Act, which
6 are to protect and restore biological integrity in
7 the environment.

8 In contrast, the single species toxicity data
9 approach is what we call a predictive tool. This is
10 a tool that is used to estimate the response of a
11 resident community based on single measurements.
12 Finally, I think that the Regional Board staff has
13 fairly wide discretion in establishing how data is
14 used and how information is interpreted in order to
15 make the 303(d) listings.

16 Now, very briefly, I would like to talk about
17 what we did in our two year study in Pleasant Grove
18 Creek. The goals of this study were to characterize
19 benthic communities and physical habitat at 21 sites
20 during 2006 and 2007. Now, benthic communities are
21 organisms that live in or on the sediment of a
22 stream, such as aquatic worms, different types of
23 insects. Snails, for example.

24 Physical habitat is essentially where these
25 organisms live. We have a way to evaluate different

1 components of the habitat in the environment where
2 you would find these organisms.

3 Now, concurrently with this benthic community
4 and physical habitat work, we also measured what
5 aquatic conditions, sediment parameters. We
6 evaluated eight different pyrethroids and a number
7 of different trace metals. Our final goal was to
8 look at the relationship between what we call
9 benthic community metrics. These are the various
10 characteristics of these communities and how they
11 are related to the various stressors. And the
12 stressors were pyrethroids, metals and physical
13 habitat.

14 Essentially what we found, the major results,
15 were that we found ten different significant
16 relationships with all of these benthic community
17 metrics or characteristics of the benthic
18 communities with various stressors. The most
19 important stressor that we found was physical
20 habitat. The second most important stressor was
21 mercury. But the most significant point is we found
22 no significant relationship between any of the
23 benthic metrics and the eight different pyrethroids.
24 The results of this study have been accepted in the
25 peer review literature, and they have been published

1 this month in the *Journal of Human and Ecological*
2 *Risk Assessment*.

3 Finally, three points. Impaired physical
4 habitat is a critical stressor influencing benthic
5 communities in Pleasant Grove Creek and its
6 tributaries. Pyrethroids did not show a
7 statistically significant relationship with benthic
8 community metrics. And, finally, Pleasant Grove
9 Creek should not be listed as an impaired waterbody
10 based on the presence of pyrethroids.

11 Thank you.

12 CHAIRMAN LONGLEY: Thank you very much,
13 Dr. Hall.

14 DR. HALL: Thank you.

15 MS. HART: I have a quick question
16 regarding your first bullet point, impaired physical
17 habitat is the critical stressor. When you say
18 physical habitat, are you talking about the physical
19 state of the stream?

20 DR. HALL: Yes, I am. In other words,
21 physical habitat in this instance deals with
22 different types of flow regimes in the stream,
23 different types of environments where you can have
24 benthic organisms, such as structures, different
25 types of characteristics such as riparian areas.

1 All of those were important. They were really a
2 primary stressor influencing the communities in
3 these streams. It is not pyrethroids.

4 CHAIRMAN LONGLEY: Any further questions?

5 Thank you very much.

6 MS. HART: I have for staff a quick
7 question. Were you provided with a copy of the
8 biological assessment, and did you have an
9 opportunity to review it?

10 MR. McCLURE: Yes. That was provided
11 during the comment period and responded to in our
12 response to comments.

13 MS. HART: I think what you has indicated
14 was that their biological assessment does, in fact,
15 show that the pyrethroids are not a major
16 impairment, but that you have toxicity data from
17 2004 which does indicate pyrethroids might have an
18 impact. Is that what staff's argument is?

19 MR. McCLURE: No, not exactly.

20 MS. HART: Maybe you can specify it for me.

21 MR. McCLURE: The staff response was that
22 we are required, primarily required, to list due to
23 the showing that there is toxicity. The fact that
24 there may be other things, such as physical habitat,
25 impacting the streams indicates that there are

1 potentially multiple problems, not that there is
2 only one.

3 CHAIRMAN LONGLEY: Well, is listed for
4 pyrethroids; is that correct.

5 MR. McCLURE: Proposed for listing for
6 pyrethroids, yes.

7 CHAIRMAN LONGLEY: Is that the correct
8 proposed listing, then?

9 MR. McCLURE: Yes.

10 CHAIRMAN LONGLEY: Based on this data -- in
11 other words, you challenge this data?

12 MR. McCLURE: No. I don't challenge the
13 study. 'Cause they found essentially the same thing
14 that Dr. Weston and Robert Holmes of our staff found
15 when they did it in 2004, that there was toxicity, I
16 believe, and that there were pyrethroids related to
17 that toxicity. It is more really in the
18 interpretation and the use of benthic community
19 metrics.

20 So there is no -- I don't believe there is any
21 debate that there are pyrethroid concentrations in
22 these waterbodies that are in Pleasant Grove Creek
23 that are in high enough levels that kill sensitive
24 aquatic invertebrates. So that's --

25 CHAIRMAN LONGLEY: That is contradictive to

1 this study's results?

2 MR. McCLURE: No.

3 CHAIRMAN LONGLEY: The study result says is
4 it not the pyrethroids in the concentrations that
5 have been encountered, but the physical habitat.

6 MR. McCLURE: It has to do with the end
7 point that you looked at. So the end point that
8 they looked at are these benthic community metrics
9 where you take information on every bug that is in
10 the stream, and look at it with various tools to
11 analyze the number of species present and other kind
12 of metrics like that. So they found correlations
13 between that and most -- I guess the tightest
14 correlation was with the physical habitat. But the
15 benthic community metrics don't necessarily reflect
16 -- I mean, there is a whole lot of variables in
17 these biological streams, as you can imagine, in the
18 benthic community.

19 And these benthic community metrics don't
20 necessarily reflect every potential impact in there.
21 Also, the benthic community metrics are a -- if we
22 only use that, that would be a reactive end point.
23 So going to his point about them being protective or
24 being predictive, ideally, yes, we want to prevent
25 these. If we waited until benthic communities were

1 so impacted that it would show up on somebody's
2 metrics, the whole -- you would have a whole lot of
3 harm done.

4 MS. HART: So if I could clarify, I'm
5 nonscientist, nonengineer. Is what you are saying
6 that the toxicity data you have from 2004 shows that
7 there is, in fact, toxicity to some aquatic life or
8 --

9 MR. McCLURE: Yes.

10 MS. HART: -- or benthic life?

11 MR. McCLURE: Yes.

12 MS. HART: At some level there is toxicity
13 caused by pyrethroids, and your evidence
14 specifically shows that and links it?

15 MR. McCLURE: Yes.

16 MS. HART: And is your position also that
17 the very specific biological assessment done by the
18 Pyrethroid Working Group folks, they're generalizing
19 that because there isn't necessarily toxicity linked
20 with pyrethroids -- that there is toxicity but it is
21 mainly caused by physical habitat?

22 MR. BRUNS: I guess our -- without being
23 expert in bioassessment technology, all we are
24 saying is that apparently the tools and metrics and
25 things they used weren't sensitive enough to show

1 the obvious water column toxicity that our test
2 showed. Whatever it was they did, wasn't sensitive
3 enough to show these kind of things.

4 It is toxic. The water is toxic to the
5 species we tested, which is an invertebrate itself,
6 Hyalella, which is not an exotic strange species.
7 It is a species that does live in some of the creeks
8 around here. That is our bioassay species. They
9 are killed in the samples. So our view was that
10 somehow the bioassessment doesn't tease that apart.

11 MS. HART: Is there any significance with
12 respect to the fact that your study was done in '04
13 and there is more recent?

14 MR. McCLURE: No. The findings, the
15 physical findings, were very similar. More has to
16 do with the interpretation of data.

17 MS. HART: So you are saying that the
18 bioassessment actually did show toxicity?

19 MR. McCLURE: Bioassessments don't. There
20 are two things. There is toxicity tests. There is
21 three things. There is tests of chemistry, tests of
22 toxicity and then bioassessment. So that is
23 basically counting bugs and applying various metrics
24 to those.

25 MS. HART: You are saying that two separate

1 tests were done. They did one test and you guys did
2 another test.

3 MR. McCLURE: Yeah. They did an additional
4 test, which was the more detailed bioassessment.
5 The 2004 study looking at the insects that
6 Dr. Weston and Robert Holmes did looked at -- they
7 focused on the insects, the Hyalella, that were most
8 likely to be impacted. They did find that Hyalella
9 was absent from the -- was largely absent relative
10 to the upstream, in these area that were impacted by
11 these pyrethroids. Some of that may, in fact, have
12 been caused by physical habitat. That is why it is
13 difficult to use bioassessment metrics. So that and
14 the idea of being protective rather than reactive
15 are kind of some of the basic principles that are
16 used under the independent applicability. And
17 ultimately, although we obviously -- ultimately this
18 is what is -- it is not up to us either because it's
19 set in the listing policy that we have to list when
20 there is toxicity.

21 CHAIRMAN LONGLEY: Any further questions?

22 We will go onto Jim Whitfield.

23 MR. WHITFIELD: Good morning. I am Jim
24 Whitfield from the Sequoia National Forest. The
25 Forest headquarters is located at 1899 South

1 Newcombe in Porterville, California.

2 We want to briefly discuss the 303(d) listings
3 on the waterways within the Sequoia National Forest.
4 For our reference, the Sequoia National Forest is
5 about a million acres of public land in the southern
6 Sierra Nevada. The range of that land runs from the
7 Kings River to south of the Kern River. These are
8 the waterbodies that are listed as proposed for
9 303(d) listing, other than what we heard this
10 morning. The Lower Kern will not be.

11 This is a map of Deer Creek, which is one of
12 the proposed listings, and the one I want to
13 concentrate on this morning. These show the
14 potential or the sample points that were taken. The
15 point I would like to make with this map, if you
16 look on the right, there is a bold black line that
17 represents the western boundary of the Sequoia
18 National Forest, which is about 17 miles upstream
19 from the highest sample point.

20 This is a Google earth map that just gives
21 another representation of the sample point locations
22 and shows the distinction between the agricultural
23 valley land, the grassland foothills. And then it
24 indicates the forest boundary, which is up in the
25 mixed confer brush type.

1 Quickly, I just want to show graphic points
2 along the way where the sample points were taken.
3 These begin at the western most point of the
4 sampling, down in the San Joaquin Valley. And then
5 we move upstream to sample points further, higher
6 elevation. This point, the highest one, is the
7 first one that, according to the data, indicated no
8 levels of toxicity or high pH. Those were the two
9 categories that Deer Creek was proposed for listing.

10 This is a photograph of a sample point that
11 Sequoia National Forest used to do some of our
12 stream condition inventories. We took pH samples
13 there, according to the USGS protocols, and those
14 indicated that the pH was not high. We also used an
15 alternative study of looking at aquatic insects.
16 And that test came back from Utah State University,
17 and their conclusion was there was no apparent
18 organic pollution.

19 Our suggestion for Deer Creek is that rather
20 than listing the entire water way up in the Sequoia
21 National Forest, that we would propose that the
22 limit, to the extent of that listing, at the Sequoia
23 National Forest boundary. We welcome any
24 opportunity to provide testing in cooperation with
25 the state to see if we can get a better sense of the

1 actual water quality. Our proposal is that the
2 listing end at the forest boundary.

3 Thank you. That concludes my remarks for this
4 morning.

5 CHAIRMAN LONGLEY: Thank you.

6 I think, as we did with the last speaker, we
7 will go to staff for comments on that proposal that
8 the listing be based on data they provided, the
9 listing go to the boundary.

10 MR. McCLURE: We looked at the data they
11 provided. It was rather sparse, the amount of data.
12 And we didn't see in that data where there were no
13 exceedances, but only a few data points. They
14 didn't really show that the pH was highly different
15 up in the national forest. And so we didn't really
16 have any basis for proposing narrowing down the
17 list.

18 We certainly would be interested in getting
19 more monitoring, and we can revise the listing in
20 the next cycle. And just, generally, we need some
21 basis for segmenting the waterbody. Water quality
22 doesn't necessarily know where the National Forest
23 boundary is.

24 CHAIRMAN LONGLEY: I won't represent
25 another Board Member, but being very familiar with

1 those streams. My family -- in the past my family
2 ran cattle on the streams. The kinds of uses you
3 have there, I have some concerns, but I'll set those
4 aside.

5 Thank you.

6 MR. WHITFIELD: Thank you.

7 CHAIRMAN LONGLEY: Next speaker, Dean
8 Marston, California Fish and Game.

9 MR. MARSTON: Good morning, Chairman
10 Longley and fellow Board Members. My name is Dean
11 Marston. I am environmental programmer manager for
12 the Department of Fish and Game, Central Region, San
13 Joaquin River Basin Salmon and Steelhead Restoration
14 Program. My address is 234 East Shaw Avenue,
15 Fresno. Zip code, 93710. I am requesting about 15
16 to 30 additional seconds, if possible.

17 CHAIRMAN LONGLEY: I will give you 21
18 additional seconds.

19 MR. MARSTON: The Department of Fish and
20 Game continues to strongly support the listing of
21 the Merced, Tuolumne, Stanislaus and Lower San
22 Joaquin River as water temperature impaired for both
23 fall-run chinook salmon and steelhead rainbow trout.

24 From a historical view, it is noted for the
25 record, from a public trust perspective, that both

1 steelhead and various runs of salmon were abundant
2 in the San Joaquin River Basin. However, today all
3 of these fish are now gone. While many factors have
4 been identified as the cause for the near total
5 elimination of salmonid resources in the San Joaquin
6 River Basin, it is a historic fact that consistent
7 with these species population declines has also been
8 the substantial reduction over time of then river
9 habitat quantity and quality.

10 The recent population crash of chinook salmon
11 along the Pacific Coast has closed all commercial
12 and sportfishing in the past two years, resulting in
13 significant economic loss to the communities and
14 industries that depend upon this precious natural
15 resource.

16 For the San Joaquin River Basin, the fall-run
17 chinook salmon population crash started well before
18 the downturn in ocean conditions in 2005,
19 commensurate with elevated inland water temperature
20 regimes.

21 Why is water temperature so important?
22 Because, physiologically speaking, water temperature
23 has the capacity to control every aspect of an
24 anadromous fish's life, adult spawning to juvenile
25 outmigration. In short, water temperature has the

1 ability to be a substantial population limiting
2 factor.

3 Why use EPA criteria? Some have questioned
4 why we should use EPA Region 10's water temperature
5 criteria as standard. To digress briefly.

6 Generally speaking, biological scientists collect
7 data from the field or in a laboratory setting and
8 analyze the data and compare its information found
9 in the scientific literature. This is exactly what
10 the Department of Fish and Game did. We collected
11 field water temperature data, analyzed it and
12 compared the results to criteria published in the
13 scientific literature that are expected to adversely
14 affect salmonids.

15 Water Board staff completed a different
16 analyst of water temperature data to comply with
17 requirements of the State Water Board's listing
18 policy. Both analyses came to the same conclusion.
19 High water temperatures in these rivers are likely
20 impacting salmon and steelhead. In addition,
21 scientific studies have thus far determined that
22 chinook salmon occurring in the Pacific Northwest do
23 not have different temperature tolerances than the
24 salmon and steelhead occurring in the California's
25 Central Valley.

1 Therefore, at this time applying EPA's Region
2 10 criteria, scientifically justified and complies
3 with the requirements of the State Water Board
4 listing policy.

5 In conclusion, the Department recommends that
6 the Regional Board adopt the staff recommendation to
7 place the Merced, Stanislaus, Tuolumne and Lower San
8 Joaquin Rivers on the Section 303(d) list for high
9 water temperature and impairment. If you have any
10 questions, either I or my staff are here to address
11 them.

12 CHAIRMAN LONGLEY: Are there any questions?

13 I understand your rationale. I guess what
14 bothers me is that we go back to the natural
15 condition of that river. It was filled with
16 sloughs, and, certainly in the summer months, very
17 stagnant, slow flowing water. That is part of that
18 historical record.

19 Being a native here, sometime ago, I know that
20 those, certainly not pre-dam, I know that those kind
21 of waters tend to be very warm in the summertime,
22 particularly in periods of drought. And I just
23 wonder, it kind of boggles me, that we think that
24 conditions have to be something other than what they
25 existed under more natural conditions.

1 Do you have a reply to that?

2 MR. WHEELER: Historically, prior to the
3 development of the series of dams that have occurred
4 in each of the tributaries and all also the main
5 stem of the San Joaquin River, anadromous salmonid
6 salmon and various forms of salmon had access to
7 hundred of miles of each of the rivers. And with
8 the most recent series of dam construction, habitat
9 is not constricted to the lower 50 miles. In years
10 past, prior to dams, fish could go up past that warm
11 water and actually hold over in the summer in
12 cooler, colder water. Now we have forced their
13 habitat to be in a slower 50 mile reach.

14 CHAIRMAN LONGLEY: So the period time you
15 are talking about is after the migration, the
16 historical migration period and during the summer
17 months; is that correct?

18 MR. WHEELER: Yes. During the summertime
19 we are not talking about migration. We are talking
20 about rearing below each of the dams.

21 CHAIRMAN LONGLEY: Thank you. Makes sense.

22 Any further questions? Comments?

23 Next card is for Tom Wheeler.

24 MR. WHEELER: Thank you. I am Tom Wheeler,
25 Madera County Supervisor, Madera County, 200 West

1 Fourth Street, Madera. I am also the chairman of
2 the Coarsegold Resources Conservation District. A
3 little different sitting out here than up there. I
4 see what the people do when they talk to me.

5 One thing I would like to, for Mr. McClure, if
6 I could get a copy of his PowerPoint for us to
7 study, and that would be very -- I tried to make a
8 lot of notes, but can't write that fast. I need my
9 secretary here.

10 We got a lot of problems with listing in
11 Madera County, and I don't know where to begin after
12 seeing the PowerPoint. I have the big thick book on
13 it. Just Madera County, about four inches thick, if
14 you want to see it.

15 I am addressing you today as Madera County
16 supervisor and president of the Coarsegold Resources
17 Conservation District regarding the proposed
18 addition of nine Madera County waterbodies to the
19 303(d) list. In particular, I am deeply concerned
20 with the addition of the Fresno River due to low
21 dissolved oxygen, as I disagree with either fact or
22 logic supports such a listing. I am also concerned
23 with the effects of listing will have on my
24 constituents as it relates to the State Water
25 Board's proposed septic system regulations and

1 Assembly Bill 885.

2 I respectfully request that you put off the
3 decision on this matter for at least a year until we
4 can complete our water study currently taking place
5 on the Fresno River and share those results with
6 you. We've been sharing as we go along with
7 Mr. McClure on this.

8 Fresno River, the correct standard for cold
9 water is seven MG per liter, and they used eight as
10 their requirements, which is wrong. The proposed
11 303(d) listings is based on a 2001 RWQCV data set
12 with an extremely small sample size and results that
13 barely meet the standards for the 303(d) listing.
14 And more recent water testing programs done on the
15 river by Fresno State and the Central Sierra
16 Watershed Committee, which I am part of, that we
17 have over a \$300,000 grant from the DWR to study
18 this. And we've got 14 sites that we've been
19 studying since November. And out of the 63 samples
20 so far, only eight have exceeded that standard.
21 That they've done their two testings in October '01
22 -- I mean, in August and October, and doing their
23 listing from that.

24 There samples were collected eight years ago.
25 Their samples were collected in times where mostly

1 stagnant and low flow waters; like I said, August
2 and October. Our current water study finding is
3 that the DO is closely related to flow. During
4 November 2, '08, we obtained samples that were below
5 DO standards, which was a month after they done
6 their samples in 2001. However, all samples
7 exceeded that standard. We also object to using the
8 DO as for the listing. Low DO measures in Fresno
9 River are not due to contaminants. They are due to
10 low discharge and resulting stagnant high
11 temperature water, which all of us, like our
12 Chairman, is a native here like I am. I worked on a
13 4,500 acre ranch along the San Joaquin River for 41
14 years before I retired and decided to become a
15 supervisor.

16 We have worked with water continually, and
17 that is one of the reasons the Coarsegold Resource
18 Conservation District in the last 15 years, we've
19 brushed over 32,000 acres which creates a 30 percent
20 more water flow for our residents in Madera County
21 with that brushing. It is very important that we
22 think they should do other type testing.

23 CHAIRMAN LONGLEY: Are you about ready to
24 wrap up?

25 MR. WHEELER: I have about a half page. I

1 forgOt to ask for a little more time.

2 CHAIRMAN LONGLEY: Give you about 30
3 seconds more.

4 MR. WHEELER: I'll skip a bunch. Based on
5 the list issues, we also have doubt that the
6 validity of adding the other eight waterbodies in
7 the 303(d) in Madera County. The listing will have
8 serious impacts on Madera County residents. The
9 previously proposed 885 regulations directed home
10 owners with septic systems within 600 feet of an
11 impaired waterbody would be required to have
12 extensive testing and possibly more extensive
13 retrofits, which they estimate at \$45,000.

14 Our County is predominantly rural with
15 approximately 20,000 property owners rely on septic
16 systems. Our median household is 39,000. This
17 would devastate my families. As I stated before, we
18 are in the middle of a water quality study, which
19 does not currently support the Water Board's
20 conclusions. We, therefore, request that the
21 decision on the 303(d) listing be put for another
22 year so that the data we are collecting can be
23 completed and analyzed and shared with the Water
24 Board.

25 CHAIRMAN LONGLEY: Thank you, sir.

1 MR. WHEELER: Can I give you copies of
2 this?

3 CHAIRMAN LONGLEY: Give it to staff.

4 MR. WHEELER: We sent many letters to them.
5 And I have all the testing status and also --

6 MS. OKUN: Is that copy stuff?

7 MR. McCLURE: Am I allowed to take it?

8 MS. OKUN: I don't know what it is.

9 MS. HART: Has that already been submitted
10 to staff?

11 MR. WHEELER: We give it to him before.

12 MS. HART: So it is in the files, in the
13 record already?

14 MR. WHEELER: Not what I spoke today.

15 MS. HART: But the documentation you have
16 just handed him?

17 MR. WHEELER: What I did today and the
18 status of.

19 MS. OKUN: Would you hand that to me?

20 CHAIRMAN LONGLEY: It goes over here to
21 counsel, please?

22 MR. WHEELER: Thank you.

23 MR. McCLURE: I don't believe I have seen
24 this before. Would you like me to respond?

25 CHAIRMAN LONGLEY: Go ahead and respond.

1 MR. McCLURE: There was a correction to the
2 fact sheet. We originally had used eight as the
3 dissolved oxygen standard. That was corrected, but
4 it did not result in a change to the recommendation
5 to list based on the available data.

6 This kind of goes in with my reasons to the
7 general comment on use of small data sets, that
8 we're required to make assessments with available
9 data. And those can be revised in future listings
10 cycles when more data become available.

11 The other, there was -- there did seem to be a
12 misunderstanding relative to -- and this is not my
13 area of expertise, by any means. The AB 885 septic
14 tank regulations, my understanding of those, which
15 have not been adopted, is that the septic tank
16 regulations in 885 that were proposed before the
17 State Board, those requirements would kick in not
18 upon 303(d) listing, but upon adoption of a TMDL
19 which found septic tanks as one of the causes of the
20 impairment.

21 So this 303(d) listing, I do not believe,
22 would immediately kick in the AB 885 regulations, if
23 and when they are adopted by the State Water
24 Board.

25 CHAIRMAN LONGLEY: When they are adopted,

1 it would be a separate line on the list here?

2 MR. McCLURE: When the AB 885 regulations
3 are adopted, then it would take -- we would actually
4 have to do -- if they are adopted as they are
5 proposed, we'd have to actual do a TMDL where we
6 made a finding. So that would be an entire adoption
7 of a TMDL, of its own regulatory process. They're a
8 few steps away. There may be some misunderstanding.

9 Those AB 885 were really controversial. We
10 are interested to see the results of the new
11 studies, and revise the listing as appropriate. I
12 did note that the new studies they are talking about
13 from, my belief, November through now, so we really
14 haven't hit the time of year when you would expect
15 the oxygen to go low, to the critical period we
16 would be most concerned with.

17 CHAIRMAN LONGLEY: For the record, I am
18 aware of the Fresno studies. I have not read them,
19 nor has anyone discussed them in any detail with me.
20 But they did exist. And since they are a Fresno
21 State study, obviously, they have to be very good.

22 MR. McCLURE: We are interested to get and
23 evaluate them.

24 CHAIRMAN LONGLEY: Thank you. I said that
25 last line in jest, of course.

1 MS. OKUN: On these documents, one of the
2 documents is a summary of the speaker's testimony.
3 We have his testimony; that is not necessary. There
4 is a summary of Madera County's position on the
5 public review draft, which I assume is a summary of
6 something that's already been submitted. Then there
7 is a series of letters that I haven't seen before.
8 I don't know if they are already in the record or
9 not. It looks like there are four or five letters.

10 UNIDENTIFIED AUDIENCE MEMBER: We sent a
11 couple months ago.

12 MR. McCLURE: Anything that was submitted
13 before the comment deadline, which was March 16, we
14 would have in the record. And I believe we provided
15 you -- some of these I haven't seen. All the
16 comments that I received subsequent to the comment
17 deadline we did not include a written response, but
18 we did provide those to you. Generally, they are
19 being responded to here.

20 MS. OKUN: The only letter that postdates
21 the comment period is a letter from the Madera
22 County Board of Supervisors to Assemblymember Ted
23 Gaines. And I haven't read it, but there doesn't
24 appear to be any reason to add it to the record.

25 CHAIRMAN LONGLEY: Thank you. We will take

1 your advice.

2 Next speaker I have is Jon Nelson.

3 MR. NELSON: Good morning, Chair Longley
4 and Members of the Board. I am here to talk about
5 the low DO at Hume Lake Camp. My name is Jon
6 Nelson. I work for the nonprofit organization, Hume
7 Lake Christian Camps that uses land around Hume
8 Lake.

9 I did submit my comments to the Board -- or
10 not to the Board, but to Danny McClure. And what I
11 would like to comment on is comments that were made
12 back in his listing. They are found on Page 16 of
13 his long list. What it sounds like for me is that
14 we have eight days of sample over three years. And,
15 again, my comment would be insufficient data
16 sampling to make any sort of assessment. It sounds
17 like if you take one point of data sample, you have
18 to make an assessment. I just don't understand why.

19 I did pass out to him eight days of sampling.
20 It seems like there is double and triple jeopardy.
21 There are three test sites with 24 samples total.
22 And it seems like we have triple jeopardy on two of
23 those sample dates. I have copies of that if you
24 would like to see it.

25 CHAIRMAN LONGLEY: I don't want to see it,

1 but why do you say triple jeopardy?

2 MR. NELSON: Because when there was
3 exceedances on a single day at the lake, they were
4 exceedances sometimes in only two areas, sometimes
5 in only one area. And sometimes in three areas. So
6 of the eight says of sample, they counted those
7 sites as a ding on the lake itself, and didn't have
8 some sort of reasonable assessment of the lake as a
9 whole, just the sample sites individually. So, is
10 it triple jeopardy or double jeopardy? It just
11 seems, like, if you had one sample site that was in
12 noncompliance or an exceedance, didn't mean that the
13 lake as a whole was in exceedance.

14 CHAIRMAN LONGLEY: Was this -- I don't
15 have it in front of me.

16 Danny, could you provide a little
17 clarification? This was for Hume Lake and the
18 exceedances, was this for a period for Hume Lake
19 itself? What were the exceedances for?

20 MR. NELSON: For low dissolved oxygen.

21 MR. McCLURE: So Hume Lake was proposed for
22 listing for low dissolved oxygen. In doing the
23 assessment, we followed the listing policy, which
24 actually requires us to propose a change to the
25 303(d) listing based on whatever existing data there

1 are. If it meets those statistical tests, we're
2 required to propose a listing.

3 In looking as long as these sites were under
4 the listing policy, if there are three sites and
5 they are independent, each of those, each sample,
6 each of those samples is looked at independently.
7 So each time -- each sample, like each day at each
8 site, would be one sample. That is the total number
9 of samples. That would be taken and compared to the
10 total number of times the dissolved oxygen was below
11 the standard. So that provided the frequency which
12 provided the basis for the proposed listing.

13 CHAIRMAN LONGLEY: Thank you.

14 Any further questions by Members of the Board?

15 Thank you for testimony, sir.

16 Richard McHenry. Following Richard will be
17 Art O'Brien.

18 MR. McHENRY: Good morning, Mr. Chairman,
19 Board Members. I am Richard McHenry, a civil
20 engineer representing California Sportfishing
21 Protection Alliance. CSPA appreciates Regional
22 Board staff's monumental effort in collecting and
23 analyzing a significant amount of data to prepare
24 revisions to the 303(d) list.

25 CSPA has long been an advocate of treating

1 temperature as all other pollutants under the
2 existing regulatory framework.

3 My principal reason for being here before you
4 today is to express CSPA's strong support for the
5 proposed inclusion of the temperature impairment for
6 the San Joaquin, Merced, Tuolumne, Pit, Yuba and the
7 North Fork of the Feather Rivers. Temperature is
8 clearly a major limiting factor to renewable
9 fisheries in these waterways. The data supports the
10 proposed listing.

11 CSPA has submitted written comments where we
12 question the elimination of selenium impairment from
13 Salt Slough in the San Joaquin River. We realize
14 that our comments really address the five microgram
15 per liter standard, and that may not be an issue
16 here. But we did submit a presentation by
17 Dr. William Beckham of the U.S. Fish & Wildlife
18 Service which supports that view.

19 CSPA's written comments also detail problems in
20 both delisting of electrical conductivity on the San
21 Joaquin River below Stanislaus, and with the
22 diazinon in the Feather River below Oroville.

23 Thank you very much.

24 CHAIRMAN LONGLEY: Questions?

25 Thank you very much.

1 Art O'Brien. Following Art O'brien will be
2 Ken Petruzzelli.

3 MR. O'BRIEN: Chairman Longley, Members of
4 the Board. Thank you very much. My name is Art
5 O'Brine. I'm wastewater utility manager for the
6 City of Roseville. I am here representing the City
7 of Roseville.

8 Two short items. We want to thank staff for
9 considering the great amount of data that went into
10 this whole 303(d) listing and, specifically, the
11 additional data that we sent to staff during the
12 comment review period. They considered that data
13 and addressed it appropriately. Thank you very much
14 for that.

15 Second, we also want to thank staff for the
16 late revision clarifying Appendix F on Pleasant
17 Grove Creek. We want to support that late revision.

18 Thank you very much.

19 CHAIRMAN LONGLEY: Thank you very much.

20 Any questions?

21 Ken Petruzzelli. Following Mr. Petruzzelli
22 will be Eric Athorp.

23 MR. PETRUZZELLI: Chairman Longley, Members
24 of the Board. I am Ken Petruzzelli. I am here for
25 the San Joaquin River Group. We submitted some very

1 extensive comments. In light of time limitations I
2 will focus on temperature. Perhaps five minutes
3 will be sufficient time.

4 The 303(d) asks whether --

5 CHAIRMAN LONGLEY: Let's consider five
6 minutes. You will get five minutes.

7 MR. PETRUZZELLI: Thank you, Mr. Chairman.
8 The question with 303(d), it starts with whether or
9 not objectives are met. And that's the Basin Plan.
10 And the temperature objective in the Basin Plan and
11 I'm addressing temperature specifically with respect
12 to the Stanislaus, Tuolumne and Merced Rivers. We
13 are recommending not listing those rivers for
14 temperatures, or at least changing the 305(b)
15 classification.

16 The Basin Plan objective doesn't include
17 access to upstream spawning habitats. Doesn't talk
18 about dams. It asks whether natural receiving water
19 temperature has changed. The listing policy has
20 guidelines for interpreting what that means, but it
21 can't interpret that objective in a manner that
22 would have an affect of changing the objective.
23 There is an Eleventh Circuit case in Florida about
24 that.

25 And we had some disagreement as to what the

1 objective is. Essentially, it says natural
2 receiving water temperature should not change in a
3 manner that harms beneficial uses. And then it says
4 for warm and cold interstate waters natural
5 receiving water temperature shouldn't change more
6 than five degrees. Really, the question is what is
7 natural receiving water temperature. Because you
8 don't know if it's changed unless you know what it
9 is to start with. That question is not asked in the
10 staff report. In fact, staff doesn't even address
11 the question of what natural receiving water
12 temperature is or what the definition of the term
13 is.

14 The term is defined in the thermal plan. And
15 the State Water Board has used that definition for
16 interstate waters; and, essentially, it includes
17 everything except agri terms and point sources. So
18 if the natural temperature is hot, then the
19 objective could be met even if the temperature is
20 hot and fish aren't necessarily doing very well.

21 Historically, from what we now, the natural
22 stream temperatures in those streams were always
23 hot, or often hot in summers. And much of the
24 historical commentary submitted by Fish and Game
25 suggest that the fisheries didn't always have it

1 easy, that they were often stressed.

2 And the point there was that not just whether
3 fish were abundant or that the fishery was once
4 healthy. But how abundant were the fish or how
5 healthy was the fishery?

6 So the staff needs to look at whether,
7 specifically, the objective, as written in the Basin
8 Plan, has or has not been met. And that's not been
9 done. And because it has not been done, we do not
10 recommend listing the Merced, Tuolumne or Stanislaus
11 Rivers for temperature.

12 I will take questions from the Board.

13 CHAIRMAN LONGLEY: Any questions?
14 Questions from Board Members?

15 Thank you for your testimony.

16 MR. PETRUZZELLI: Thank you.

17 CHAIRMAN LONGLEY: Eric Athorp.

18 Would you like your response from staff? We
19 have a request for response. Sorry, Mr. Athorp.

20 MR. McCLURE: Well, first of all, the
21 question of the 303(d) list, also, is not just
22 limited to objectives. Is our water quality
23 standards met? And water quality standards include
24 the beneficial uses of those waterbodies. So
25 they're designated as for migration and spawning of

1 salmonids. And we followed the listing policy
2 provisions for how to assess the data.

3 The example, with some improvement of what
4 State Water Board did in the previous listing cycle
5 and came to the conclusion that we did.

6 CHAIRMAN LONGLEY: Thank you.

7 MS. HART: With respect to his comments on
8 the natural receiving water temperatures, do you
9 have a response?

10 MR. McCLURE: There is probably endless
11 debate potentially on what these rivers used to be
12 like.

13 CHAIRMAN LONGLEY: The data is sparse.

14 MR. McCLURE: So it's kind of a legal
15 issue. It would be rather odd, I think, to consider
16 downstream of a dam as natural receiving water
17 temperature.

18 CHAIRMAN LONGLEY: Any further comments?

19 MS. OKUN: The listing policy includes
20 guidance on how to determine water temperature.
21 Basically, when the data on natural background are
22 unavailable or inclusive. And my recollection is
23 that is the procedure staff used. It is directly
24 applicable to this situation, as opposed to a
25 borrowed definition of another policy of natural

1 background.

2 CHAIRMAN LONGLEY: Thank you.

3 That was somewhat fortunate. Mr. Athorp was
4 having computer problems. We solved that, too.

5 Tess, you will be the next speaker up.

6 Go ahead, sir.

7 MR. ATHORP: Thank you very much,
8 Dr. Longley, Members of the Board. My name is Eric
9 Athorp. I am a resource analyst for the Kings River
10 Conservation District, Fresno. I am here to discuss
11 the 303(d) listing for unknown toxicity on the Kings
12 River.

13 There were three lines of evidence presented
14 in the documentation. The first line was the water
15 flea, which one incident in 50 samples was noted.
16 According to Table 3.1 in the listing policy, this
17 does not qualify.

18 Line of evidence number two was fathead
19 minnow. In which case there were two incidences of
20 statistical mortality within 50 samples. Again,
21 this does not meet the requirement of Table 3.1.

22 The basic problem here with the listing is due
23 to the algae results compiled under the ILRP. Algae
24 has been a continual issue in the Kings since the
25 inception of the program, in that we continually get

1 results that say there is a statistical difference
2 between the sample and the control, even though all
3 the samples collected show a positive growth rate.
4 They just do not match the rate of growth in the
5 control solution.

6 We have been cooperating with the Regional
7 Board office in Fresno to conduct a parallel study
8 in which samples were collected, and they ran it
9 through the Fish and Game lab. And they failed to
10 find a significant difference in growth rate.
11 Whereas, the sample submitted to the primary lab
12 used by KRCD for the ILRP continued to show the
13 significant differences. After the data cutoff date
14 in 2007, which we weren't aware that that was the
15 cutoff date, we repeated the split sample and used
16 -- sent samples to Fruit Growers Laboratory, which
17 is the other lab used by our coalition for their
18 column toxicity testing. Their samples came back at
19 no significant difference. Whereas, ours continued
20 to show differences.

21 Discussing the situation with Sierra Foothill
22 and Pacific Eco Risk -- I'm afraid I am going to
23 need a few more minutes.

24 CHAIRMAN LONGLEY: Try to hold it to
25 another minute, if you can.

1 MR. ATHORP: It is their opinion there is
2 considerable leeway within the method. We are not
3 aware that we could use water of lower hardness than
4 what is present or in the control solution.

5 I draw your attention to the table here. SFL
6 is Sierra Foothill, and that is the chemical
7 constituents of their control water. The four
8 samples to the right of that are -- says samples run
9 by Apple Laboratories in Fresno. And you can see
10 the difference in EC, TDS and hardness. The
11 differences are quite significant. We have always
12 run a second study using softer water to test the
13 algae growth. And we actually found that the rivers
14 out performed the control in this study.

15 What I would like as a result of this
16 presentation is I would like to have the 303(d)
17 listing for unknown toxicity rejected or at least
18 delayed for one year while we accumulate additional
19 data to support the position that it is the clean
20 nature of the Kings River water that and the
21 incompatibility with the laboratory method, or the
22 fact that we were using high salinity water versus
23 low salinity water, which ways available to us in
24 order to prove that no condition exists.

25 CHAIRMAN LONGLEY: Thank you.

1 Mr. McClure.

2 MR. McCLURE: Just to note, we have already
3 responded to these comments in writing.

4 CHAIRMAN LONGLEY: Seems to be a laboratory
5 problem.

6 MR. McCLURE: I mean, one thing is that in
7 our responses that we would like to work with the
8 coalitions to help ensure that the laboratory data
9 that we generate is useful and especially helpful to
10 determine what the causes of the potential toxicity.

11 So our general response was that the test is
12 an accepted method for freshwater with a wide range
13 of physical properties, including waters of low
14 salinity, which is the Kings River. In fact, that
15 not all samples, several samples, from the waterbody
16 did not exhibit toxicity. Indicates that the algal
17 toxicity was not due to any inherent property of the
18 Kings River water. And the evidence provided didn't
19 clearly show that the laboratory results were
20 invalid and/or due to properties of the Kings River
21 water. Laboratory manipulations could have
22 determined the -- easily determined the realm of
23 these physical properties, but that was not done.
24 What we do have is evidence that there is algal
25 toxicity and, therefore --

1 CHAIRMAN LONGLEY: Based on what? I don't
2 understand. I am quite aware that while this may be
3 an accepted test, it is a very -- from everything I
4 know, it is not a very exact test. It is -- it
5 needs standardization. And such things as the
6 quality of dilution water is not something that has
7 been specified in the past. It seems to me the test
8 has some inherent flaws in it. Basing conclusions
9 on tests of that nature causes me some concern.

10 MR. McCLURE: We also have to be careful
11 because otherwise we would end up -- potentially, if
12 don't accept any algal toxicity data because of
13 inherent flaws of tests, that is why we had some
14 caution where we are recommended leaving it on the
15 list. But, certainly, we would be interested in
16 helping to follow up on this, to see if it is some
17 kind of problem with the test or if there is some
18 way it can be refined.

19 But staff recommendation remains to list it,
20 based on available evidence.

21 CHAIRMAN LONGLEY: Thank you.

22 MR. ATHORP: Thank you very much.

23 CHAIRMAN LONGLEY: Any further questions or
24 comments?

25 Thank you.

1 Tess, before you start, we are going to take a
2 two-minute stand-up break. I have been told if I
3 don't do it, I am in big problem.

4 Following Tess, will Karna Harrigfeld.

5 (Break taken.)

6 CHAIRMAN LONGLEY: Let's come back into
7 session, please. Just a note to all the speakers,
8 that I have been asked to make this announcement.
9 Please stay close to the microphone. We seem to be
10 having some issues with recording, and we need to be
11 able to have an accurate recording. So I request
12 that everybody speak squarely into the microphone.

13 Thank you, Tess. I know you never have a
14 problem.

15 MS. DUNHAM: Tess Dunham here today on
16 behalf of Sacramento Valley Water Quality Coalition.
17 And you know, Mr. Chair, I do want to note that it
18 was the lawyer that counted right on the earlier
19 counting.

20 CHAIRMAN LONGLEY: Yes. Your time is up.

21 MS. DUNHAM: Anyway, what I want to talk
22 about today is kind of a policy interpretation issue
23 that's occurred that is affecting a number of
24 listings within the policy. In particular, it has
25 to do with the staff's use of going to the weight of

1 evidence provisions within the policy to bring in
2 maximum frequency exceedances from criteria, even
3 when the binomial distribution, which showed that it
4 is not eligible for listing.

5 We are very concerned that this is inconsistent
6 with the policy as it was adopted by the State Water
7 Board. I was very involved in the policy adoption
8 at the time that it was done and have been a member
9 of the TMDL PAG. So what has happened is where, in
10 a couple of instances, or actually more than a
11 couple, where there are a number of exceedances that
12 don't qualify under by binomial, they have gone to
13 the weight of the evidence and said, "Well, the CTR
14 says one in three, so we're going to say under the
15 weight of evidence that it should still be listed
16 even though there are not enough number of
17 exceedances."

18 They qualify this as saying that the binomial
19 methodology is the default methodology and the
20 weight of evidence is the alternative. That is not
21 a correct reading of the listing policy. The
22 binomial methodology is the primary methodology
23 within the listing policy to make listing and
24 delisting decisions. The weight of evidence
25 alternative is a backstop. It is not an equal

1 weight alternative to the other methodologies. It
2 is clearly a backstop. And when you read the weight
3 of evidence factors that must be considered, if you
4 are going to list under that, you have to consider
5 data, sufficient information, provide your
6 justification.

7 The whole issue of maximum criteria
8 exceedances was debated heavily in the development
9 of the listing policy. The environmental community
10 put forward many, many comments arguing that the
11 binomial distribution should reflect those criteria
12 exceedances of one in three years. It was
13 specifically rejected by the State Water Board when
14 it adopted the policy. It is inappropriate now to
15 bring that through the backdoor by using weight of
16 evidence provisions.

17 We would suggest that any listing that uses
18 the weight of evidence to bring in listings when it
19 doesn't meet the binomial is inconsistent with the
20 TMDL listing policy and should be corrected.

21 CHAIRMAN LONGLEY: Well, Mr. McClure, do
22 you agree, first of all, with the events and the
23 decisions stated by Tess Dunham?

24 MR. McCLURE: No. One thing that Tess
25 stated was that if it didn't exceed, there are not

1 enough standards to list under the default binomial
2 distribution. This is a set frequency for all
3 things; that it's not eligible listing for listing,
4 that is not the case. If it exceeded that, the
5 binomial test frequency, it would have to be listed.
6 But just because it doesn't meet that, doesn't mean
7 that it is not eligible.

8 Staff's general position is that we have these
9 exceedance frequencies that are established in, for
10 instance, our Basin Plan or the California Toxics
11 Rule, and to just -- so in those cases, it is
12 appropriate to see whether we are meeting standards
13 to use the exceedance frequency that is in those
14 standards. And that is --

15 CHAIRMAN LONGLEY: Just a second.

16 Do you have a question?

17 MS. HART: To clarify. So you are saying
18 that where something doesn't meet the binomial
19 methodology, doesn't meet the limit, but there are,
20 say, three data points that show that there was
21 something that occurred, but it didn't meet the
22 limit, under the weight of evidence scenario the,
23 quote, backstop scenario in the listing policy, you
24 guys are having us list the rivers based on those
25 data points?

1 MR. McCLURE: I don't think there is any
2 proposed under weight of evidence for three data
3 points, but the -- and I also disagree with the
4 weight of evidence being a backstop, necessarily.
5 It says when -- we shall list if the weight of
6 evidence shows to list. So if, like, for instance
7 the --

8 CHAIRMAN LONGLEY: It appears we have a
9 fundamental disagreement on that point.

10 MR. McCLURE: Yeah.

11 MS. HART: Lori.

12 MS. OKUN: On the weight of evidence, what
13 the policy is, it gives various tests for placing
14 things on the 303(d) list. The binomial test is
15 one. The weight of evidence factor is the last
16 factor. But it says, if the weight of evidence
17 shows that there is an impairment, the pollutant
18 shall be or the waterbody segment shall be listed.

19 In terms of there being legislative intent or
20 history of the State Board that that was supposed to
21 have some other meaning, it is not apparent from
22 reading the policy. I am sure that once this gets
23 to the State Board, if there's another way they want
24 the weight of evidence test interpreted, we will
25 hear about it. The way staff is reading it is

1 consistent with what the document says.

2 MS. HART: If the toxicity data point is
3 one one-millionth of the toxicity, or however it
4 gets measured, then that falls under the weight, and
5 you are saying --

6 MR. McCLURE: No. We are talking about
7 things that have established criterion standards.
8 This wasn't used for toxicity data. Mostly used for
9 pesticide and metals data that have in the criteria,
10 when the criteria was derived, it is based upon a
11 specific exceedance frequency. Some of those are
12 established in the regulation.

13 And just to note that, you know, some of these
14 metals that were not listed, because only the
15 binomial method was used, were then listed by USEPA
16 in the last listing cycle. Because they said when
17 we adopted CTR, no more than once every three years.
18 So it makes sense to look at that.

19 MS. OKUN: Also, in response to your
20 question, it is a weight of evidence test. So if
21 there is one in one-millionth percent possibility,
22 it is probably not the weight of the evidence that
23 it is toxic.

24 CHAIRMAN LONGLEY: What I am hearing Tess
25 say is that she is claiming that the weight of

1 evidence is a backdoor. That was, if I remember
2 correctly, really not endorsed by the State Board.
3 But what you are saying is the policy, as we have it
4 in front of us and as we have to use it, points to
5 weight of evidence as the last of the criteria when
6 you get to that point.

7 Is that correct?

8 MS. OKUN: Right. There is a factual
9 determination for you to make, whether the weight of
10 evidence supports it. If you conclude that the
11 weight of the evidence supports impairment, then you
12 have to list it. And there is necessary
13 justification, which I am sure is in the fact
14 sheets, that it is scientifically defensible,
15 explaining why this approach was used et cetera, et
16 cetera. If the weight of evidence shows impairment
17 it must be listed.

18 MR. McCLURE: I should add, I believe the
19 legislation requiring the listing policy asked for a
20 weight of evidence approach.

21 MS. HART: So back to, say, for instance
22 the pyrethroids issue on Pleasant Grove. We get to
23 employ the weight of evidence issue or standard?

24 MR. McCLURE: That listing was not based on
25 the weight of evidence provision. That was based on

1 the --

2 MS. HART: Binomial?

3 MR. McCLURE: Yeah. The frequency of
4 toxicity was above the binomial test. Because there
5 is no currentlt criteria for pyrethroids with any
6 kind of exceedance frequency. It is based on the
7 frequency of toxicity. And that was the pyrethroids
8 were the cause of the toxicity, using the binomial
9 method.

10 CHAIRMAN LONGLEY: Nicole.

11 MS. BELL: Tess -- I am assuming I can ask
12 Tess questions.

13 CHAIRMAN LONGLEY: Sure. Go ahead.

14 MS. BELL: Can you clarify for me if there
15 is specifically something you're concerned with as
16 using the method that you don't agree with?

17 MS. DUNHAM: There were a couple. The one
18 that I recall off the top of my head was, I believe,
19 there is a listing for Ulati Creek where the
20 binomial distribution, there were not enough
21 exceedances with the sample size, the data sample
22 size was 50 or something, and there were not enough
23 exceedances to trigger listing, using the binomial
24 methodology for, I think, it was a pesticide, I
25 believe, was a couple constituents.

1 So then you would not be listed. And then
2 they went to the weight of evidence and said,
3 "However, these are California Toxics Rule
4 constituents that have a maximum exceedance
5 frequency of one in three years. We are going to
6 list it there, anyway."

7 When you look at the weight of evidence
8 provision in 3.11, it really specifies what types of
9 evidence you are supposed to be looking at. It is
10 evidence. It is not a maximum exceedance criteria.
11 So I think it is important to evaluate when you are
12 listing under weight of evidence what they mean by
13 that.

14 One other clarification.

15 CHAIRMAN LONGLEY: Before you go any
16 further.

17 Lori.

18 MS. OKUN: The criteria is evidence.

19 CHAIRMAN LONGLEY: As simple as that.

20 MS. DUNHAM: It is one element of evidence.
21 There is a weight of evidence approach.

22 I think the other thing, too, on the
23 pyrethroid issue, I think that if the weight of
24 evidence approach is going to be an equal weight
25 alternative, then it has to be used equally in every

1 circumstance. If the weight of evidence says the
2 bioassessment study indicates that pyrethroids are
3 appropriate, then you have to be able to use it
4 there, too. You can't use it in one situation and
5 then say that it doesn't apply here. It's got to
6 then be used equally in all situations.

7 CHAIRMAN LONGLEY: Nicole.

8 MS. BELL: Does staff have a response to
9 that?

10 MR. McCLURE: The way the listing policy
11 works is that if the preliminary test, the binomial
12 test, says to list, you must list. And then
13 subsequent to that, if the weight of evidence says
14 you must list, you should list. But in the case of,
15 like, the pyrethroid listings for Pleasant Grove
16 Creek, the pyrethroid listing there, the
17 preliminarily binomial test said we have a frequency
18 of toxicity that requires listing.

19 MS. DUNHAM: . You can delist under weight of
20 evidence, too.

21 MR. McCLURE: That is correct.

22 MS. BELL: May I have a copy of the policy
23 in question, just for my own benefit?

24 MS. DUNHAM: I have it here.

25 MS. OKUN: I got it.

1 CHAIRMAN LONGLEY: Any further questions
2 for Tess?

3 MS. CREEDON: If I could clarify for the
4 record what Danny was saying, and what is important
5 here. Apparently, in a previous week, we kind of
6 did not list because of criteria and EPA corrected
7 that oversight on ours or their -- they did list the
8 material based on criteria frequency.

9 Sometimes we learn from past listings how
10 other agencies above us interpret, how we should
11 interpret our policy.

12 CHAIRMAN LONGLEY: Thank you for that
13 clarification. That is very important.

14 Following Karna is Arthur Godwin.

15 MS. HARRIGFELD: Good morning. Karna
16 Harrigfeld on behalf of Stockton's water district.
17 We submitted detailed comments on the 303(d)
18 listing, and I will only be responding to the
19 staff's responses to those.

20 First, I would like to thank staff for
21 revising the segmentation on the Calaveras River.
22 What was originally proposed in the original
23 revision was to, basically, modify the listing to
24 apply to the 44 mile stretch of the Calaveras River
25 instead of the 5.8 mile stretch within the urban

1 areas of the city of Stockton. I appreciate the
2 segmentation that was made.

3 With respect to -- there are four listings
4 that I have issues with. The first one is the Lower
5 Calaveras River from below that to Stockton
6 diverting canal. This is essentially a 21-mile
7 reach. This segment is proposed to be listed for
8 unknown toxicities. There were three lines of
9 evidence given. Two of the lines showed no
10 toxicity. One line of evidence did show toxicity.
11 There were three of the 14 samples that showed
12 toxicity. And we don't believe the weight of the
13 evidence supports listing that area for unknown
14 toxicity.

15 The second area is the Lower Calaveras River
16 from Stockton diverting canal to the San Joaquin
17 River. This segment is proposed for listing for
18 chlorpyrifos. According to the fact sheet, it is
19 being list based on two out of 32 samples. That
20 does not meet the 3.1 binomial listing criteria. We
21 think that that doesn't comply with the listing
22 policy. There is no other evidence, we feel, that
23 is supportive of this listing.

24 MS. HART: Karna, I'm sorry to interrupt
25 you. Which waterbody were you just referring to,

1 two of 32 samples?

2 MS. HARRIGFELD: Lower Calaveras, from
3 Stockton diverting canal to the San Joaquin River.
4 It's Decision 13109.

5 MS. HART: Thanks.

6 MS. HARRIGFELD: The next segment is
7 Mormon, which is below the weir to the Stockton
8 diverting canal. This is essentially an 11-mile
9 stretch. This segment is proposed for listing based
10 on unknown toxicity. There were three lines of
11 evidence again here and only one of them shows
12 toxicity. We don't believe that -- the samples were
13 only taken at one location along that 11-mile
14 stretch, and it shows five out of 29 samples. We
15 don't believe that you can base a listing of an
16 11-mile segment on one sample spot. And so we don't
17 believe the weight of evidence supports this
18 listing.

19 Final segment is this similar segment, Mormon
20 Slough from below the weir to the Stockton diverting
21 canal, listing for chlorpyrifos. There are four of
22 ten samples. We just don't believe samples taken at
23 one location should be justification for an 11-mile
24 stretch.

25 My finally comment is with respect to the

1 Stanislaus River and listing it for temperature.
2 We, Stockton East Water Strict, as well as other
3 stakeholders on the Stanislaus River participated in
4 a CALFED project where we developed a temperature
5 model. That temperature model, the Department of
6 Fish and Game --

7 CHAIRMAN LONGLEY: Wrap up.

8 MS. HARRIGFELD: The Department of Fish and
9 Game was part of that process. The Department of
10 Fish and Game agreed with the criteria that we
11 developed for temperature. The temperature proposed
12 in the EPA'S 10 is guidance only and is very
13 different from what were agreed to with respect to
14 the temperature modeling that was done. So we don't
15 believe that the Stanislaus River is impaired and
16 should not be listed.

17 CHAIRMAN LONGLEY: Thank you.

18 Any questions by Members of the Board?

19 Thank you very much.

20 Arthur Godwin, and next is Victor Chan, I
21 believe.

22 MR. GODWIN: Arthur Godwin on behalf of
23 Merced Irrigation District. Merced Irrigation
24 District is a member of the San Joaquin River Group,
25 who also submitted comments. I want to talk about

1 the temperature objective.

2 In staff responses to the River Group, it
3 described the temperature objective as having two
4 parts, a narrative objective and a numeric
5 objective. They only applied the narrative
6 objective and never explained why they ignored the
7 numeric objective. Last week we get an announcement
8 from the Central Valley Regional Board that's
9 looking at Basin Plan amendments, and they talk
10 about the temperature objective but only describe
11 the numeric objective. So what is the temperature
12 objective? Is it A? Is it B? Is it A and B? Pick
13 and choose. Appears that staff does that all the
14 time.

15 The narrative objective, I think, is pretty
16 straightforward. It says the natural receiving
17 water of interstate waters shall not be altered
18 unless it can be demonstrated that such alteration
19 will not adversely affect the beneficial uses.

20 So I am looking at the language. It says
21 shall not be altered. That implies that there is a
22 change being made or about to be made. So where is
23 the change? What change is being made here? I
24 don't see any change. If you are talking about the
25 dams, those were in place long before the Basin Plan

1 was in place. And even most of those were in place
2 before the Clean Water Act existed. So since there
3 is no alteration before the Board, I don't see that
4 there is a requirement to demonstrate that
5 beneficial uses are impaired.

6 The listing policy, and I know this is off
7 topic, completely ignores reality. Chairman
8 Longley, you described this earlier. The floor of
9 the Merced River in summertime is not the same as a
10 river draining Pacific Northwest, Cascade National
11 Park. It's apples and oranges. Fish and Game says
12 that there is evidence, it says, or studies that
13 show that salmon don't know the difference, but
14 there is also studies that show there are
15 temperature differences between salmon.

16 Staff has responded that we don't need an
17 objective if the beneficial uses are being impaired.
18 The only evidence that we have that beneficial uses
19 are impaired is that salmon numbers are down. The
20 salmon numbers are down for a whole host of reasons.
21 The other half of that equation is that temperature
22 doesn't meet Washington State objectives. Well,
23 that to me isn't proof that the use is being
24 impaired.

25 That is all my comments.

1 CHAIRMAN LONGLEY: Thank you.

2 Danny, first of all, reply to this, but also
3 specifically focus on the charges, I guess you would
4 call, that were made regarding so-called picking and
5 choosing between narrative and numeric standards.

6 MR. McCLURE: So the standard, the water
7 quality objective in the Basin Plan, contains all
8 the provisions of it. So if either of those are --
9 you'd want to meet all of them. That is why they
10 are all there. If either of those are not met, it
11 is not one or the other.

12 MR. GODWIN: Is does say that it lists both
13 of them.

14 MR. McCLURE: Exactly. So the standard
15 includes all of those provisions that are supposed
16 to be met to support the beneficial uses.

17 CHAIRMAN LONGLEY: If it doesn't meet one
18 of them, that is sufficient for listing; is that
19 correct?

20 MR. McCLURE: Correct.

21 CHAIRMAN LONGLEY: I think that is your
22 answer.

23 MR. GODWIN: Why does your staff for the
24 Basin Plan amendment only talk about the second half
25 of the objective and not the first half? Does that

1 mean we are only talking about the second half for
2 the amendment?

3 CHAIRMAN LONGLEY: I don't think this is
4 the place to talk about the Basin Plan amendment.
5 That is a topic that we do need to discuss.

6 MR. GODWIN: That is why I am bringing it
7 to your attention.

8 CHAIRMAN LONGLEY: If we could make that
9 part of the record, that we will discuss that when
10 we're talking Basin Plan.

11 MS. HART: Do you have a specific example
12 of when this occurred so we can really address the
13 issue?

14 MR. GODWIN: In what way?

15 MS. HART: You're indicating that our staff
16 uses whichever objective, sort of willy-nilly.

17 MR. GODWIN: In this process for the
18 temperature impairment, they only used the narrative
19 portion of the objective and never explained why
20 they didn't use the second half of that.

21 CHAIRMAN LONGLEY: That is not what I
22 heard. I heard that both were considered, from
23 staff.

24 MR. GODWIN: Well, wasn't in their
25 responses to comments.

1 MS. HART: Well, I just think they just
2 responded.

3 Danny, do you want to supplement your
4 response?

5 MR. GODWIN: That is why I brought it up.

6 MS. HART: There was an additional issue
7 that you had raised regarding the TMDL process -- in
8 the Basin Plan processing.

9 MR. GODWIN: Confusion on my part, as part
10 of the regulated community, which objective is being
11 applied.

12 CHAIRMAN LONGLEY: I think we have to make
13 a note to discuss that.

14 MS. CREEDON: I'm not sure. Danny, was
15 this addressing your fact sheet on why the objective
16 -- we have two objectives in the Basin Plan. We
17 have to consider both. If one fails, then it is
18 listed.

19 Also, I'm not certain, sir, what you're
20 talking about in terms of the notice of Basin Plan
21 amendments. So far as I know. We don't have a
22 notice --

23 MR. GODWIN: It is not a Basin Plan
24 amendment.

25 MS. CREEDON: That is what you just stated.

1 Clarify your comment.

2 MR. GODWIN: The notice that went out last
3 week regarding the revisions to the Basin Plan.

4 MS. CREEDON: Triennial Review. That we
5 look at everything then. It is just not limited.

6 MR. GODWIN: I was looking at the staff
7 report. Listed some specific objectives, and
8 temperature is one of those.

9 MS. HART: We have a specific concern.

10 CHAIRMAN LONGLEY: We need to -- if there
11 is something to be addressed there, it will be
12 addressed.

13 Thank you.

14 MR. GODWIN: Thank you.

15 MS. CREEDON: I should point out in the
16 last listing we did have some concern over
17 temperature, how to address it with the Feather
18 River. The State Board rejected our argument on
19 that. Like I said before, sometimes we learn from
20 past listings on how to proceed with this one.

21 CHAIRMAN LONGLEY: Victor. I have a card
22 from Victor. I have the last name Chan, or from
23 Solano County.

24 UNIDENTIFIED AUDIENCE MEMBER: I
25 withdraw.

1 CHAIRMAN LONGLEY: Next is Zeke Grader, and
2 following that will be Dave Tamayo.

3 MR. GRADER: Thank you, Mr. Chairman,
4 Members of the Board. For the record, my name is
5 Zeke Grader. I am the Executive Director for the
6 Pacific Coast Federation of Fisherman Association.
7 Our office is in San Francisco.

8 We are here to support the inclusion of the
9 Stanislaus, the Tuolumne, the Merced and the Lower
10 San Joaquin as temperature impaired. The San
11 Joaquin and its tributaries, for those of you that
12 know your history, at one time supported major
13 salmon fisheries here along the west coast that
14 contributed to our fishery, particularly here in
15 California. Most notably south of San Francisco.
16 Of course, we know what's happened to that river
17 system over the course of the past half century or
18 three quarters of a century.

19 We are now looking at rebuilding those stocks,
20 thanks primarily to the settlement agreements that
21 have been reached with the San Joaquin and also
22 other efforts in those tributaries. One of the
23 critical things that we do have to look at is going
24 to be temperature. That is critical. We certainly
25 know that on the North Coast, where we have a number

1 of rivers listed as being temperature impaired, and
2 we also know most recently with the biological
3 opinion for the Central Valley related to the OCAL
4 that temperature has to be considered. That is, of
5 course, one of the things that is being looked at
6 right now, as far as the holdover water in Shasta,
7 to make sure that there is an ample cold water pool.
8 So temperature is very critical.

9 We also have a long history of knowing what
10 the temperature needs are for salmon. It is not
11 necessarily Washington State or someplace. There is
12 some variance. There is ample history about
13 temperature requirements in most places for salmon
14 that give us a pretty good idea of what those fish
15 do, in fact, require. So, that is there. I think
16 it is going to be really proper that this Board,
17 when it sends its recommendation to the State Board,
18 that you do, in fact, include and list those three
19 rivers as well as the Lower San Joaquin as being
20 temperature impaired for the sake of protecting the
21 beneficial uses of these streams.

22 Thank you.

23 CHAIRMAN LONGLEY: Any questions from
24 Members of the Board?

25 Thank you, sir, for your comment.

1 Dave Tamayo. And next will be Dean Ruiz.

2 MR. TAMAYO: Thank you, Chairman Longley.

3 It is Dave Tamayo. I am with the County of
4 Sacramento storm water program. Thanks for the
5 opportunity to speak. But at this point I am going
6 to defer my comments to my esteemed colleague from
7 the City of Sacramento storm water program, and
8 she's got a card in there.

9 CHAIRMAN LONGLEY: Thank you.

10 Why don't we then go with Delia McGrath.

11 MS MCGATH: Really, Dave shouldn't go very
12 far, please. Good morning. Delia McGrath, and I am
13 a senior engineer with the City of Sacramento storm
14 water program. I am here on behalf of the
15 Sacramento Storm Water Quality Partnership that is
16 comprised of agencies permitted by the Board for
17 storm water discharges, including Sacramento County
18 and its major cities. I would like to acknowledge
19 Regional Board staff for the really incredible
20 attempt at analyzing massive amounts of data and
21 going through the process. I really do. We spent a
22 lot of efforts collecting data, and I do appreciate
23 those efforts.

24 I do have three comments. First, the Board
25 should consider legacy pollutant listing from

1 Category 5, which requires a TMDL, to Category 4B,
2 which recognizes that other regulatory tools are
3 available to drive improvements. I know there is
4 some steps there for listing it as 4B, but the
5 proposed impairment listing for legacy pollutants
6 such as chloridane, dieldrin, DDT, PCBs, right now
7 we think are premature, based on just a few fish
8 tissue samples.

9 Staff's response comment on this point, Page
10 18, was that there is sufficient information to
11 justify listing reaches under -- that there is
12 insufficient to list it under Category 4B. However,
13 there's an even greater data set that is needed for
14 addressing impairment through TMDLs. Staff's also
15 responded that there is no existing program or
16 action focused on addressing the problem, but, in
17 fact, really the only practical efficient reduction
18 program possible has been implemented for decades,
19 which is banning their use.

20 Second, while it sounds like a new comment, it
21 really is a long-winded support. So while we
22 recognize that pyrethroids do exceed threshold, the
23 state permits their use in our service area. In
24 other words, there is a regulatory program
25 addressing pyrethroids, and it is not working. That

1 is why, even though we do support the TMDL, we are
2 very concerned that TMDLs requiring load allocations
3 or load reductions are not going to solve the
4 problem, as long as another state agency is
5 permitting the use of those pesticides and calling
6 it safe.

7 The Board should recognize in its policy and
8 TMDL implementations that some pollutants are best
9 addressed by other existing regulatory mechanisms.
10 Pesticides for us are clear examples of this, since
11 pesticides are directly authorized by state and
12 federal regulatory agencies to address and even
13 prevent the impairments we are now observing that
14 are due to currently registered pesticide products.

15 So here is my long-winded comment, too. We
16 strongly encourage the Board's continued support to
17 working with us and EPA and DPR, Department of
18 Pesticide Regulations, in trying to get the changes
19 needed in pesticide regulations to reduce these
20 impairments.

21 And I do have one last comment. It is only
22 ten seconds.

23 CHAIRMAN LONGLEY: Go ahead.

24 MS. McGRATH: It goes back to contested
25 weight of evidence. The Board should consider

1 site-specific conditions and the weight of evidence
2 to delist Arcade Creek for copper. As indicated in
3 our comment letter, the partnership applied EPA's
4 biotic ligand model. Fancy word, but it does
5 consider other site-specific conditions to calculate
6 site-specific toxicity thresholds for copper in
7 Arcade Creek. This model has been successfully
8 implemented in Southern California and elsewhere in
9 the U.S. for this purpose.

10 The partnership sampling and analysis
11 indicates that, when site-specific conditions are
12 considered, Arcade Creek is in attainment of the
13 more appropriate and still protective copper water
14 quality objectives. Staff's response to this
15 comment didn't address the use of the biotic ligand
16 model. We would like that considered, especially
17 since we took the effort to collect additional data,
18 do the study, and we think we are in compliance
19 there.

20 CHAIRMAN LONGLEY: Mr. McClure.

21 MR. McCLURE: Starting with response on the
22 copper. We established what is equivalent to an
23 objective in the California Toxics Rule. That is
24 the established copper number that we are obligated
25 to compare the data to under EPA standards. Am glad

1 to hear some data indicates that is okay. I don't
2 know -- I think there is any way -- I think it would
3 take EPA making some kind of changes in CTR to
4 change that, or perhaps a site-specific objective at
5 this point using existing standards we have to list,
6 or leave it on the list, excuse me.

7 Did you want me to respond to the other
8 points?

9 CHAIRMAN LONGLEY: Yes, sir, please.

10 MR. McCLURE: On the first point on being
11 addressed by an existing program. We did not have
12 evidence of enough of the factors to say that we, in
13 fact, attain standards through the existing
14 programs. The ban's decades out. We still haven't
15 met standard. For a lot of pollutants there are
16 ways, even though they are not being manufactured
17 anymore, there are still things that people can do
18 to reduce their presence in surface waters, such as
19 erosion reduction, et cetera.

20 So we felt that they were appropriate to list.

21 Moving onto the comments on the pyrethroids
22 and the general pesticide listing. In general, yes,
23 we are definitely working with DPR to help to try to
24 address some of these problems at the registration
25 phase. There is also, just starting up an effort,

1 all these pesticides are also registered at the
2 federal level at USEPA. And USEPA has just started
3 a harmonization effort between their water quality
4 standard people and their pesticide registration
5 people. So there are a lot of opportunities, and we
6 are looking forward to continuing to participate
7 with USEPA and DPR. And we've really got a good
8 working relationship with DPR now, and I think
9 hopefully we can take care of it there and not have
10 to do TMDLs.

11 CHAIRMAN LONGLEY: Good. Thank you.

12 Any questions, comments by Members of the
13 Board?

14 Thank you very much.

15 Michael Bryan.

16 DR. BRYAN: Good morning, Mr. Chairman,
17 Members of the Board. My name is Mike Bryan. I am
18 a partner with Robertson-Bryan, Inc., located at
19 9888 Kent Street, Elk Grove, California.

20 I would like to share a technical perspective
21 with the Board this morning pertaining to the
22 proposed dissolved oxygen listing for low flow and
23 ephemeral valley floor creeks, such as Pleasant
24 Grove Creek. My credentials for addressing this
25 matter are that I have a Ph.D. in fisheries in

1 biology and aquatic toxicology and over a decade of
2 experience in monitoring dissolved oxygen and doing
3 DO studies in Central Valley creeks.

4 Although a number of creeks have met the
5 criteria of 303(d) listing, due to experiencing
6 dissolved oxygen levels below the Basin Plan
7 objectives, I am confident that in many of these
8 cases it is driven more by natural factors rather
9 than by controllable factors affecting water quality
10 and DO levels in this case.

11 Low flow creeks have a natural daily DO cycle
12 driven by plants and animals that live within them
13 that are using oxygen through respiration and
14 decomposition 24 hours a day. While photosynthesis
15 by plants and algae only occur during daylight
16 hours, the daily DO cycle is by far the most
17 pronounced during the warm summer and fall periods
18 when rates of respiration, decomposition,
19 photosynthesis are at their seasonal maximums. Low
20 DO levels below five milligrams per liter at night
21 and super saturation at levels of 10 to 15
22 milligrams per liter by day are actually relatively
23 common in Central Valley creeks. Particularly low
24 flow and ephemeral creeks during the summertime.

25 I believe that you will find that the typical

1 TMDL approach will not be effective in resolving the
2 regulatory issues surrounding DO in many of these
3 creeks proposed for listing. Because in many cases,
4 again, the natural factors of respiration and
5 decomposition and photosynthesis would continue to
6 cause nighttime and early morning DO levels to be
7 below current objectives, even after implementing
8 the best practicable treatment and control measures
9 for nutrients and other DO demanding substances.

10 In Pleasant Grove Creek, as an example, it
11 should be noted that the current DO objective of
12 seven milligrams per liter applies because the cold
13 beneficial use has been designated year-round
14 through the Basin Plan Tributary Rule. In reality,
15 the cold use for this waterbody is probably not
16 attained year-round. It may be attained seasonally
17 and it may be attained for reach specifically, but
18 certainly not year-round.

19 Therefore, the efficient and effective means of
20 resolving the apparent DO impairment for valley
21 floor creeks may not lie in the implementation of a
22 typical TMDL process, but may actually rather lie
23 through a standard refinement process. This could
24 take the form of either refinement of the cold
25 beneficial use designation via addressing the

3 objective itself.

4 A modified DO objective, similar to the
5 USEPA's national recommended DO criteria, would
6 better accommodate the natural DO cycles in these
7 creeks.

8 CHAIRMAN LONGLEY: If you can finish up in
9 a minute.

10 DR. BRYAN: I'm finished up with that
11 comment. I just had perfect timing, I guess. I
12 just had one other comment tiering off of the
13 discussion this morning on pyrethroids for Pleasant
14 Grove Creek. And I certainly concur with the
15 earlier statements of the professor from Maryland
16 and Tess Dunham making the comment on weight of
17 evidence.

18 If you look at the lines of evidence that we
19 have here, we've talked about chemical measurements.
20 We've talked about the predictive bioassays and
21 rapid bioassessment. From my professional
22 perspective, there are not equal in their weighting
23 when you look at weight of evidence. So, certainly,
24 if there is a criterion that you are exceeding, then
25 the chemical measurements are very powerful because

- 1 seasonality of that use in the creeks or its
- 2 reach-specific nature or refinement of the DO

1 you are either over or under that criteria.

2 In the case of pyrethroids, we have a chemical
3 measurements that I would weight the lowest. We
4 have the predictive bioassays, and I would weight
5 next in line. But the rapid bioassessments I would
6 give the most weight to. That is the scientific
7 procedure that effectively allows you to go into the
8 creek and ask the organisms, "Are you being
9 effective? Are you being impaired?" The results of
10 that, if you are talking about the weight of
11 evidence, in my professional opinion, would outweigh
12 the other two lines of evidence.

13 CHAIRMAN LONGLEY: Thank you. Thank you
14 very much.

15 MS. HART: I just have a follow-up
16 question. I just can't seem to get my arms around
17 this particular situation which extends, I am sure,
18 to other issues as well.

19 Do you think the bioassessment here and the
20 toxicity studies, more particularly pyrethroids in
21 the Pleasant Grove Creek, do they study the same
22 thing?

23 DR. BRYAN: Effectively, yes. But it's two
24 different techniques. So if you go into a creek and
25 you take sediment samples and your take those

1 samples into the laboratory with a standard
2 bioassay, you run a bioassay. You are asking, "Is
3 there toxicity?" And the findings of that says,
4 "Yes, there is." You really can't take anything
5 away from that finding that is a solid scientific
6 finding.

7 But what a rapid bioassessment does, as the
8 professor from Maryland, again, in his testimony
9 explained it, I think, very nicely, is with the
10 former method you go in one day and you pull a
11 sediment sample. You go into the lab and you test
12 it. With a rapid bioassessment, it's an integrated
13 assessment because those organisms had to live their
14 entire life cycles, multiple life cycles. So you
15 are going into the equilibrium state in that creek.
16 And you are looking at the trophic structure, what
17 types of organisms are there, what the relative
18 abundances are. You are asking yourself the
19 scientific question: Is what I see here appropriate
20 for this creek? The reason the physical habitat is
21 so important is you have to look at the physical
22 habitat first. If you have sandy, silty, muddy
23 sediments without cobbles and warm water versus cold
24 water, there is an expected assemblage of benthic
25 invertebrates.

1 You look at that and say, "Is that what I
2 expect to see here?" If it is, then the bugs are
3 telling you we're okay for this habitat. We are in
4 good shape. If you didn't see what you expect, than
5 they are being adversely affected by something.
6 That is what the bioassessment looks at.

7 CHAIRMAN LONGLEY: Thank you very much.
8 Any further questions comments?

9 MR. BRUNS: Just a quick one. One of
10 questions is: What do I expect to see? Well, there
11 is a lot of assumptions.

12 CHAIRMAN LONGLEY: You want to go by the
13 microphone?

14 MR. BRUNS: Sorry. This is Jerry Bruns.
15 The question is: What do you expect to see?
16 There is a lot of assumptions that goes in about
17 what you expect to see and what you don't expect to
18 see, and may be how you describe that influences the
19 results we get. So maybe it is not a fine enough
20 tool to tease out the toxicity that we are finding
21 when we do our toxicity test.

22 CHAIRMAN LONGLEY: I would like to ask the
23 members of the audience, is anybody here who has
24 submitted a card that I didn't call?

25 Would you come up, sir? Your name, please.

1 MR. CHESLAK: Ed Cheslak.

2 CHAIRMAN LONGLEY: I missed you, then. I'm
3 sorry. Go head.

4 MR. CHESLAK: Good morning, Members of the
5 Central Valley Regional Water Quality Control Board.
6 I'm Ed Cheslak, representing Pacific Gas & Electric
7 Company from San Ramon, California. I would like to
8 thank your staff for the opportunity to comment on
9 the proposed revisions to the Section 305(b)
10 listing.

11 PG&E provided written comments on March 16th,
12 and I would like to summarize some of the comments
13 here today. We want to acknowledge and appreciate
14 the Central Valley Board staff's tremendous effort
15 in preparing this complicated detailed document. We
16 are concerned that the Central Valley Board staff
17 did not have adequate time to address all the
18 comments received in March in preparation for this
19 revised list.

20 PG&E provided comments for eight different
21 listings, some of which were originally placed on
22 the 303(d) list by the State Board in 2006. In
23 order to assist the Central Valley Board with this
24 review process, PG&E requested a meeting with the
25 Board staff. We did meet with Danny McClure's team

1 on April 16th and discussed the comments that we
2 submitted. His team told PG&E at this meeting that
3 they had been able to review many of the comments
4 received and for some of the listings they were able
5 to make the revised recommendations based upon those
6 comments, largely due to segmentation.

7 However, the listings that we had proposed in
8 2006 by the State Board have not been reviewed.
9 According to staff, they retained the original
10 listing determinations since the State Board was
11 most familiar with the reasons behind these
12 temperature listings.

13 PG&E requests that future proposed listings
14 include a review of prior State Board's
15 determination as an independent check of the
16 continued appropriateness of that determination.
17 The 2006 listing by the State Board included water
18 temperature for both the North Fork Feather River
19 and Willow Creek. PG&E submitted comments for both
20 of these listings previously in January of '06,
21 October 19th of '06 and again on March 16 of '09.
22 There is currently no indication that this new
23 information was used to reevaluate these
24 waterbodies. PG&E responded to the 303(d) call for
25 data and submitted all available documents to the

1 State Board in October 2006 and intend to submit all
2 new information during the next call for data.

3 We understand that the process of reviewing
4 and making listing determinations is not easy. It
5 is time consuming and requires attention to many
6 details for many different bodies of water. We are
7 concerned about the above water temperature listings
8 because they will be, potentially, retained
9 indefinitely without any review by the Board staff
10 due to these complexities. And PG&E believes that
11 these listings should be revised, based upon
12 available data and information. Furthermore, PG&E
13 believes that an accurate listing for water
14 temperature cannot use a single water temperature
15 criterion --

16 I just have a few more.

17 CHAIRMAN LONGLEY: Go ahead.

18 MR. CHESLAK: -- criterion for a 55- to
19 60-mile segment of river. A single criteria does
20 not adequately address the complexity of the river.
21 For example, changes in elevation, climate, species
22 present or species of concern, warm water versus
23 cold water species, as well environment, physical
24 and biological differences. PG&E would like to
25 ensure that all relevant data is reviewed by Board

1 staff and would be happy to meet with the staff
2 after the 303(d) call for new data. Ongoing
3 collaboration will ensure that the applicable data
4 reaches the correct individuals, the information is
5 reviewed and answers to any questions that the Board
6 staff may have are provided in a timely fashion.

7 We feel that such a collaborative process will
8 make it easier for the Board to evaluate listings
9 more closely and enhance your understanding of
10 available data underlining the listings and approve
11 your assessment of those waterbodies you are
12 considering.

13 Finally, thank you, again, for the opportunity
14 to make these comments on behalf of PG&E.

15 CHAIRMAN LONGLEY: Thank you very much.

16 Any questions from Members of the Board?

17 Thank you, sir.

18 And the other gentleman.

19 MR. RUIZ: Good afternoon. I am Dean Ruiz
20 on behalf of South Delta Water Agency. I think you
21 called me earlier. Got out of order somehow. On
22 behalf of the agency, we do not support the
23 delisting of that portion of the San Joaquin River
24 which is in question, from the Stanislaus River to
25 the Delta boundary.

1 While we do recognize there has been recent
2 history indicating that the Bureau of Reclamation
3 has made sufficient releases from New Melones to
4 meet the Vernalis salinity standard, the broader
5 problem with respect to salts in the San Joaquin
6 River remains to be addressed. There are hundreds
7 of thousands of tons of salt that come down the
8 river each year, and there are high concentrations
9 in particular months, which are very problematic.

10 The State Board continues to demonstrate it
11 does not have a plan or at least intent to enforce
12 South Delta water quality standards. We believe it
13 is bad policy at this time, at least in our view, to
14 delist a portion of the river and suggest that so
15 long as the Vernalis standard is being met, there
16 are no salt load problems upstream of the area
17 considered for delisting.

18 It is the same salt upstream, that comes in
19 upstream in the subject area, that remains in the
20 river and significantly contributes to EC violations
21 in the South Delta. We do not feel you can look at
22 this issue in isolation. We feel delisting suggests
23 that downstream impairment is somehow not related to
24 the upstream salt problem.

25 As you also are aware, the recent, very

1 recent, salmon biological opinion appears to place a
2 significant burden on New Melones. The Bureau of
3 Reclamation projects that there will be less water
4 available for all purposes as a result of this
5 biological opinion, which means to us that we do not
6 know how or how they will allocate for water quality
7 standards in the San Joaquin River. This would
8 clearly suggest that there is no basis to conclude
9 that the impaired water above the Delta boundary
10 will continue to be at least partially diluted.

11 Finally, to the extent that the Regional Board
12 was committed and/or directed to set upstream
13 salinity standards, it seems clear to us that
14 delisting of the proposed area would be used as
15 justification and motivation not to take any action
16 upstream.

17 For these reasons and other reasons, we,
18 again, do not support delisting of the subject area
19 on the San Joaquin River, and we thank you for your
20 consideration of our comments.

21 CHAIRMAN LONGLEY: Thank you.

22 Any questions or comment by Members of the
23 Board?

24 Thank you, sir.

25 MS. OKUN: I just want to make sure that

1 the Lower San Joaquin upstream of Vernalis is not
2 being delisted for salts. It continues to be
3 listed. There is actually a specific decision to
4 maintain that listing in response to a request for
5 this 303(d) list.

6 There continues to be a control program to
7 address salts in the San Joaquin River upstream of
8 Vernalis. And this shouldn't in any way be read to
9 suggest that those problems have been resolved in
10 the Lower San Joaquin.

11 MR. McCLURE: A minor correction on that.
12 Lower San Joaquin River, the reach proposed for
13 delisting is from the San Joaquin River to
14 Vernalis.

15 MS. OKUN: From the Stanislaus River.

16 MR. McCLURE: Thank you. From the
17 Stanislaus to Vernalis. The reaches upstream of
18 Stanislaus River, as well as the reaches within the
19 Delta, are not proposed for delisting. They are
20 going to remain listed.

21 CHAIRMAN LONGLEY: For salinity?

22 MR. McCLURE: For salinity, yes.

23 CHAIRMAN LONGLEY: And that stretch remains
24 listed for other constituents.

25 MR. McCLURE: Correct.

1 CHAIRMAN LONGLEY: We will take closing
2 statements from staff.

3 MR. BRUNS: So I'll provide a closing
4 remark, and then if any of you have additional
5 things to add, chime in.

6 In general, I think the recommendation to
7 adopt the list as proposed still stands. We didn't
8 hear anything that was different than what we
9 responded to in written comments already. Ostensive
10 written responses. I don't think we heard anything
11 today that would change our mind on any of these
12 issues.

13 I don't know if the Board Members want to hear
14 particularly more on any one of the particular
15 issues or not. I can address that gives you
16 particular concern.

17 CHAIRMAN LONGLEY: Does any Board Member
18 have any further concerns that can be addressed?

19 Guess not. Jerry, go ahead.

20 MR. BRUNS: My recommendation would be to
21 approve the recommendation for adopting the
22 resolution as proposed with the late revisions and
23 anything else and forward to State Board.

24 CHAIRMAN LONGLEY: I think in reply to your
25 asking for questions or clarification, we would just

1 quite fully in discussion as it went along.

2 Thank you.

3 I would like recommendation from the Executive
4 Officer.

5 MS. CREEDON: Well, I ditto staff's
6 recommendation. I just -- if I may, can I ask Jerry
7 to clarify a couple things? There was some issues,
8 and I know you and I had this extensive about the
9 controllable factors in addressing Dr. Bryan's
10 comments about it not being controllable. That
11 doesn't have any bearing on whether it is listed.
12 It was whether a TMDL or something is done in the
13 future.

14 Is that correct?

15 MR. BRUNS: You are talking about his
16 comments on dissolved oxygen?

17 MS. CREEDON: Yes.

18 MR. BRUNS: In the valley floor creeks, I
19 would agree. It's pretty straightforward that you
20 have to list based on exceedances of water quality
21 objectives, which are pretty clearly stated in the
22 Basin Plan in the dissolved oxygen.

23 When we would go about trying to do a TMDL,
24 though, or figure out what kind of regulatory
25 approach to take in those waterbodies, we need to

1 look at all the stuff he talked about. The DO
2 cycle, the natural warming, the natural cycle of DO
3 production by algae and the use by fish. I don't
4 think we just launch into a Basin Plan amendment
5 process without looking into that first. We
6 don't -- the only -- so far the only dissolved
7 oxygen TMDL that we have developed is the one that
8 deals with the ship channel, the Stockton Ship
9 Channel. That is a pretty unique situation.

10 CHAIRMAN LONGLEY: Manmade structure, so to
11 speak. Maybe follow up on that.

12 Let's say that -- the situation is now that
13 there is a TMDL -- a 303(d) listing for DO in those
14 streams that were referenced, and it was determined
15 that this was due to natural occurrences, so to
16 speak, wouldn't that trigger, then, a Basin Plan
17 amendment?

18 MR. McCLURE: Yes. The appropriate
19 response would be to revise the standards. Make it
20 correct.

21 CHAIRMAN LONGLEY: Thank you.

22 MR. BRUNS: There is the other question you
23 brought up about controllable factors. We would
24 have to do an analysis and determine whether this
25 was just a natural condition, which -- or whether

1 there was actually some controllable factor that we
2 could influence. It's not always obvious. A
3 controllable factor can be flow. It can be riparian
4 vegetation. It can be water management. It can be
5 a lot of things. It is not restricted to us
6 regulating the discharge of pollutants. Other
7 things could be considered.

8 CHAIRMAN LONGLEY: Thank you.

9 Any questions from Members of the Board?

10 MS. HART: I just have one comment with
11 respect to the bioassessment. They are clearly
12 extremely expensive, and it is unfortunate that it
13 appears the State Board listing policy really
14 discourages people from going forward and actually
15 funding really significant helpful studies, because
16 we end up considering the most simplistic, one point
17 data sample piece of evidence. It is really
18 unfortunate because while toxicity may technically
19 be there in one small moment of time in a tiny
20 bacteria, whatever it is, it is not potentially
21 caused by, in this instance, bioassessment related
22 to pyrethroids.

23 I don't know if there is something we can do
24 in terms of responding to the State Board and
25 indicating that they may want to very well consider

1 that when people are willing to fund bioassessments,
2 and our staff has reviewed those bioassessments and
3 agree with the science in the bioassessments, that
4 that bioassessment takes weight or precedence over
5 other stated here data toxicity points.

6 MS. CREEDON: I agree with that. I was
7 going to ask Jerry to comment about that. There is
8 a huge -- what we see with chemical water column
9 testing versus, if that is the real indicator of
10 overall health of the waterbody. It is an issue. I
11 know they are addressing in the nonpoint source
12 program and others. As we move into -- as we evolve
13 in the Water Board, I am sure these discussions will
14 come to play in a bigger arena in our policy making.
15 That is just the next evolution, hopefully, of our
16 policy setting. Right now the policy weighs heavily
17 on chemical analysis.

18 MR. BRUNS: I want to point out the
19 toxicity testing that is done is typically not being
20 done with just one sample here and there. Usually
21 there is quite a bit of information to support some
22 of these listings. The toxicity testing we have
23 done for years have been really helpful at getting
24 at some of our bigger water quality problems. That
25 is how we got onto working with chlorpyrifos and

1 diazinon over the years. Toxicity testing in the
2 rivers.

3 I think these are real useful. I wouldn't
4 downgrade chemistry or toxicity. All three of the
5 legs of information are important. I think we need
6 to evaluate all of them. I don't think the
7 bioassessment stuff is inherently, wildly more
8 valuable than the other pieces. But you have to
9 have a reasonable amount of information on all the
10 legs. It's not just two samples from one. From,
11 say, two samples from bioassays and then you do a
12 million dollar study. Those obviously don't have
13 the same weight. You can't just equate two samples
14 to those studies. I think all three of the legs are
15 important.

16 MS. HART: But, Jerry, that is what we have
17 done here.

18 MR. BRUNS: It is not quite as slight
19 amount of data as is characterized in most cases.
20 In some cases we had -- we just have to follow the
21 policy, and we had to use what data was available,
22 and it is not very much. But a lot of them, like,
23 the pyrethroid listings in Pleasant Grove Creek.
24 That is not based on just a few little data points.
25 There is a significant amount of data for that.

1 MS. HART: The question is pyrethroids are
2 linked to causing toxicity?

3 MR. BRUNS: They are in terms of killing
4 the test organisms and organisms like that that
5 would live in that waterbody. As to whether the
6 bioassessment captures that, that is a different
7 story.

8 CHAIRMAN LONGLEY: Thank you.
9 So your recommendation is?

10 MS. CREEDON: It is the same. To
11 approve.

12 CHAIRMAN LONGLEY: Just for the record.

13 MS. BELL: I have a question.

14 CHAIRMAN LONGLEY: Yes.

15 MS. BELL: This goes back to the first
16 speaker, Mr. Hall. I am having a hard time wrapping
17 my brain around it, and it kind of goes to what we
18 are talking about now as well. Just for my clarity,
19 if an organization has done testing and it is
20 scientifically based, is staff able to use that
21 testing?

22 CHAIRMAN LONGLEY: Dr. Hall, come to the
23 mike, please.

24 MS. BELL: This is a question to staff,
25 please. When there is scientific based testing done

1 by other groups, is it being considered by staff
2 when making your decisions?

3 MR. McCLURE: Yes. The majority of stuff
4 we looked at were not from internal programs. So we
5 did include everything that was submitted and looked
6 at that.

7 MS. BELL: Mr. Hall, your testing was from
8 when? I thought on this topic staff's testing was
9 from to 2001 and your comment -- excuse me, 2004 and
10 your comment was that your bioassessment, that the
11 newer bioassessment had different results and it was
12 not any better than the old results. What I am
13 wondering is, is there a possibility that because
14 you didn't also have -- well, please answer that
15 question.

16 MR. McCLURE: There is a little bit of
17 confusion, first of all. There is a number of tests
18 that were done here, and so there is toxicity
19 testing and there are bioassessments. Those are two
20 different things. One is whether a test organism
21 dies when it is in the sediment. That is instream.
22 And one is whether, when you look at all the bugs
23 that are in the stream, including sensitive and
24 insensitive, whether certain metrics apply to that,
25 indicate that the steam is impacted. And there are

1 two different things to look at.

2 The difference between staff's conclusion and
3 the proposal with Pyrethroid Working Group's
4 conclusion on looking at what they looked at, is
5 more to do with how the data are interpreted and
6 looking at three lines of evidence.

7 DR. HALL: Can I answer?

8 CHAIRMAN LONGLEY: You can answer.

9 DR. HALL: There are a couple questions
10 that were asked about. Really the rub in all of
11 this is the use of two different tools. The single
12 species toxicity test, which is what was used by the
13 Regional Board to make this decision based on work
14 done in 2004, is a single species toxicity test with
15 one test organism that was used at various sites in
16 Pleasant Grove Creek. Results of that study showed
17 that there was toxicity, and also linked that
18 toxicity from that one test species to pyrethroids.
19 The work that we did in 2006 and 2007 is a
20 bioassessment study, which is a lot broader type of
21 approach for trying to get a handle on impairment,
22 because you are not using one species. You are
23 using biological data from organisms that actually
24 live in that system. And what we did is we
25 collected data over a two-year period for 21 sites

1 each year, which is a very strong data set, to
2 enable us to look at the conditions of the organisms
3 in that stream to see how they responded to
4 stressors. The three stressors we were interested
5 in were pyrethroids, trace metals and physical
6 habitat.

7 What we found from our robust data set was
8 that pyrethroids were not an important factor in
9 influencing those communities, while physical
10 habitat was an important factor, and there were some
11 minor effects from metals. So, basically, the
12 bottom line, in my view, is when you've got
13 biological data that is of this kind of spatial and
14 temporal scale, it should take precedent over any
15 kind of single species toxicity test. That is
16 really the bottom line for my argument.

17 MS. CREEDON: He may have a valid point.
18 We have a policy we are bound by. The policy is
19 clear that if we show toxicity, and we clearly can
20 identify with the pollutant, we shall list it on the
21 303(d). There is the rub. We have a policy versus
22 possible science and/or that this policy doesn't
23 allow one to trump the other. So that is why we are
24 today.

25 MR. BRUNS: There is another part of the

1 review cycle, and all this goes to State Board.

2 This can all be debated again.

3 CHAIRMAN LONGLEY: We don't need to go
4 there. We realize that.

5 MS. CREEDON: I did want to make our
6 clarifying statement if you're done with Dr. Hall, I
7 would like to make a point about the delisting of
8 the San Joaquin River for salt, or that segment of
9 it. The fact by our proposing to delist it is based
10 simply on using the policy and applying the policy
11 for delisting. The fact that we have had
12 significant years of data, including one critical
13 year period, and we still did not observe
14 exceedances, this is not a statement on whether the
15 use of New Melones or not is appropriate. It is not
16 clearly a statement that we do not intend to further
17 regulate salts or impose other requirements upstream
18 of that area or within the Delta.

19 So it is not a statement of what we are not
20 going to do. It is simply a statement that it clear
21 meets the defined system, defined in the policy for
22 delisting that particular segment of the river.

23 CHAIRMAN LONGLEY: Thank you.

24 Any further questions from Members of the
25 Board of anybody?

1 Let's consider whether or not we are going to
2 approve this resolution adopting the recommendations
3 for 303(d) listing and delisting.

4 Any comments? Thoughts?

5 MS. HART: Well, I'll start. I don't -- I
6 am going to go ahead and move approval based on the
7 recent discussions we have, but want to make a very
8 clear point about two of the issues that were
9 discussed.

10 One is with respect to the bioassessments. I
11 find it very contrary to common sense that we use
12 simple data toxicity points, and we are absolutely
13 required by a policy to move forward on listing
14 something for a TMDL where the TMDL might not even
15 help and probably won't even help the toxicity
16 situation because we have a larger picture of what
17 is really happening in that creek, which is that it
18 needs restoration. It needs a lot of different
19 things, including probably more flow. And that is
20 not going to happen, based on any TMDL that we are
21 doing, but based on a technicality we have throw in
22 there.

23 So I am not going to make any proposed
24 revisions with respect to the Pleasant Grove Creek.
25 Same thing with the dissolved oxygen problem.

1 Secondly, on Vernalis, I couldn't agree more
2 with the gentleman's comment that salinity is a
3 severe problem in this area. Well, in most of the
4 Delta and a lot of our rivers. And wholeheartedly
5 concur with our EO's and our counsel's comments that
6 this is not -- this vote by the Board to delist this
7 very small segment of the river near Vernalis is not
8 any indication or a signal to anyone, any party, any
9 group that we believe salinity is not a problem. It
10 is, again, a technicality. Every single aspect of
11 the requirement for delisting has been met.

12 In my mind, that means it is my job to comply
13 with the policy that has been set by the State
14 Board. If every objective has been met, it is my
15 job to approve it, even if I disagree or think it is
16 problematic.

17 And the State Board should be on notice they
18 might want to reconsider certain policies with
19 respect to this area, and contemplating the control
20 programs on both the upper and lower parts of the
21 San Joaquin.

22 So with that, I will move approval of the
23 proposed list. And I thank staff for very hard
24 work, as well as the dischargers and folks who have
25 commented today.

1 CHAIRMAN LONGLEY: Thank you.

2 Do I have a second?

3 MS. BELL: I will second the motion.

4 CHAIRMAN LONGLEY: Moved and seconded.

5 Before we vote, I have to say that I concur
6 with the Vice Chair's statement. I would like to
7 add in the issue of dissolved oxygen, our funding
8 for Basin Planning efforts are coming from the
9 general fund. If somebody would like for, in their
10 area, if they think they have a valid case for a
11 Basin Plan amendment, we would very much like to
12 talk with you. And we'd appreciate it if you would
13 bring your checkbook along, and we can have those
14 discussions.

15 With that said, are there any further
16 discussions?

17 We will go to voting.

18 All in favor of the motion, state so by saying
19 aye.

20 Opposed say no.

21 MR. ODENWELLER: No.

22 CHAIRMAN LONGLEY: Abstain.

23 With that, the motion carries.

24 Thank you.

25 (Hearing concluded at 12:25 p.m.)

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REPORTER'S CERTIFICATE

STATE OF CALIFORNIA)
) ss.
COUNTY OF SACRAMENTO)

I, ESTHER F. SCHWARTZ, certify that I was the official Court Reporter for the proceedings named herein, and that as such reporter, I reported in verbatim shorthand writing those proceedings;

That I thereafter caused my shorthand writing to be reduced to printed format, and the pages numbered 3 through 136 herein constitute a complete, true and correct record of the proceedings.

IN WITNESS WHEREOF, I have subscribed this certificate at Sacramento, California, on this 16th day of June, 2009.



ESTHER F. SCHWARTZ
CSR NO. 1564