BIOSTIMULATORY-BIOINTEGRITY POLICY
SCIENCE ADVISORY PANEL
MEETING #2

December 12, 2018

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WELCOME & INTRODUCTIONS
MEETING FORMAT/AGENDA

December 12, 2018

Early Morning

• Introductions and welcome, review meeting goals and agenda
• Update on status of the combined policy
• Overview of charge questions
• Overview of SAG comments

Late Morning and Afternoon

• Brief technical presentations on products
• Stakeholder perspectives and concerns
• Science Panel questions

Opportunity for other SAG comments at the end of the day (please submit a blue comment request card by 3 pm so that we can cue you up)
MEETING FORMAT/AGENDA

December 13, 2018

Early Morning- Mid-Afternoon

• Closed Session (Panel members only)

Late Afternoon (3 pm)

• Science Panel report out
  • Preliminary reflections on charge questions and on science products

Following the meeting, the Science Panel will review technical products and questions/comments.

We will use the 3rd Panel meeting to hold a Panel report out on their findings, plus reflections on advisory group concerns and issues.
Amendment to the Inland Surface Waters Enclosed Bays and Estuaries (ISWEBE) Plan to:

▪ Establish a framework to control eutrophication and support biological integrity in all waterbodies
▪ Focus on wadeable streams

Likely Key Components:

▪ Narrative biostimulatory water quality objective
▪ Indicators and thresholds for biostimulatory substances and conditions
▪ Biological integrity assessment methods
▪ Implementation approaches
AMENDMENT TO THE ISWEBE PLAN (Phase 1)

**BIOSTIMULATORY**

**ALL WATERBODIES**
- Narrative Water Quality Objective for Biostimulatory Substances & Conditions
- Approach to Derive Numeric Thresholds from Narrative Objectives

**WADEABLE STREAMS**
- Numeric Thresholds Based on Biointegrity Goals
- Numeric Thresholds Based on Human Use Goals
- Implementation Approaches to Control Eutrophication

**BIOLOGICAL INTEGRITY**

**ALL WATERBODIES**
- TBD: Narrative Objective?

**WADEABLE STREAMS**
- Biological Integrity Assessment Methods: CSCI & ASCI
- Causal Assessment (Stressor ID) Methods
- Implementation Approaches to Protect Biological Integrity
## PROJECT TIMELINE

<table>
<thead>
<tr>
<th>TASK</th>
<th>TARGET DATE</th>
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<tbody>
<tr>
<td>Detailed Work Plan for Policy Development</td>
<td>December 2018</td>
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<tr>
<td>Stakeholder Advisory Group Meetings</td>
<td>October 2018&lt;br&gt;Jan/Feb 2019&lt;br&gt;Ongoing through policy development</td>
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<tr>
<td>Science Panel Meetings</td>
<td>December 12-13, 2018&lt;br&gt;March 2019 (tentative)&lt;br&gt;Possible meeting after release of draft Policy</td>
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<tr>
<td>Draft Policy Provisions</td>
<td>Summer 2019</td>
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<td>Scientific Peer Review</td>
<td>TBD: possible winter 2019</td>
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<td>Public Review Draft</td>
<td>TBD: possible spring 2020</td>
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<td>Board Workshops</td>
<td>TBD: possible spring 2020</td>
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<tr>
<td>Response to Comments</td>
<td>TBD: possible summer 2020</td>
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<tr>
<td>Board Consideration of Adoption</td>
<td>TBD: possible fall 2020</td>
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▪ State Water Resources Control Board is lead

▪ Three advisory groups
  ➢ Regulatory Advisory Group
  ➢ Stakeholder Advisory Group
  ➢ Science Panel

▪ Technical Team (SCCWRP scientists)
SCIENCE ADVISORY PANEL ROLE

- Provide independent technical review of policy development products
  - Includes the workplan and individual tasks

- Provide critical scientific insight based on extensive real world experience
  - Data gaps, alternative approaches, limits of interpretation
  - Potential management implications

- Like the SAG, the role is not approval
  - Its advisory
GOALS FOR TODAY

▪ Receive preliminary technical feedback from Science Advisory Panel on the draft science products

▪ Provide an opportunity for policy-makers, technical staff, and stakeholders to pose technical questions and receive input from the Science Panel
## DRAFT SCIENCE PRODUCTS

### BIOINTEGRITY PRODUCTS

1. A Non-predictive Algal Index for Complex Environments (Also known as ‘Algal Stream Condition Index’ or ASCI), Theroux et al. in prep
2. Development of Benthic Macroinvertebrate and Algal Biological Condition Gradient Models for California Wadeable Streams, Paul et al. in prep
3. Prioritizing Management Goals for Stream Biological Integrity Within the Developed Landscape Context, Beck et al., in review

| Finalize | Spring 2019 |

### BIOSTIMULATORY PRODUCTS

5. Scientific Bases for Assessment, Prevention, and Management of Biostimulatory Impacts in California Wadeable Streams, Sutula et al, SCCWRP TR 1048

| Finalize | before draft Staff Report |
Charge Questions:
- Adequacy of datasets
- Conceptual models
- Indicators/measures
- Analytical approaches
- Performance evaluations
- Applicability of models
- Specific technical questions
- Technical stakeholder concerns

Instructions to Science Panel: Limit responses to scientific and technical merit of the products under review. Questions that cannot be addressed prior to key policy decisions will be tabled for future discussions as policy options are being developed.
QUESTIONS?