

Science Supporting Wadeable Streams Biointegrity and Biostimulatory Policy Amendments

Science Update for Regulatory Workgroup

September 17, 2018

THE “TWO-STEP” OF THE COMBINED SCIENCE PLAN

1. Establish scientific basis for **STATEWIDE** numeric guidance
 - 1.1 Develop Algal Stream Condition Index (2nd line evidence with CSCI)
 - 1.2 Determine the numeric range of CSCI and ASCI that correspond to attainment of Aquatic Life Uses
 - 1.3. Determine numeric range of biostimulatory indicators that correspond to protection of human and aquatic life uses
2. Support implementation
 - 2.1 Identify streams where biointegrity may be constrained by landscape alteration
 - 2.2 Provide case studies “watershed approach” for site-specific biostimulatory objectives



Step 1:
Biointegrity



Step 2:
Bio-
stimulatory


THE “TWO-STEP” OF THE COMBINED SCIENCE PLAN

Report: **Approach to Assessment, Prevention and Management of Biostimulatory Impacts in California Waterbodies** (In Support of Consistent Interpretation of Narrative Objective)

1. Establish scientific basis for **STATEWIDE** numeric guidance
 - 1.1 Manuscript: **Algal Stream Condition Index**
 - 1.2 Manuscript: **Biological Condition Gradient** expert judgment and comparison to percentile of reference approach
 - 1.3. Report: **Wadeable Streams Eutrophication Synthesis**
Manuscript: **Biostim. Bioint. Stress Response Models**
2. Support implementation
 - 2.1 Manuscript: **Channels in Developed Landscapes**
 - 2.2 **TMDL Case Studies** of “watershed approach” for site-specific biostimulatory objectives



Step 1:
Biointegrity



Step 2:
Bio-
stimulatory

TIMING OF REVIEW OF SCIENCE PLAN PRODUCTS

September 2018 webinar: Presentation of findings to Advisory Groups

- September 17th 9:30-11:30; ASCI and Biological Condition Gradient Interpretation Support
- September 24th 9:30-10:30: Channels in Developed Landscapes
- September 25th 9:30-11:30: Biostimulatory Principles (all waterbody types), Eutrophication Synthesis and Biostimulatory stress-response model

Beginning of October 2018: Release of manuscripts and reports

End of October 2018: SAG meeting to discuss concerns, formulate charge to Science Panel

December 2018: Science Panel meeting 2

March 2019: Science Panel meeting 3

GOAL FOR TODAY'S DISCUSSION OF SCIENCE PRODUCTS

Preview findings on two project components:

- ASCI development – Susanna Theroux
(susannat@sccwrp.org)
- Biological Condition Gradient interpretation support –
Raphael Mazor (raphaelm@sccwrp.org)

*Meant as high level intro to written products that you will
receive in a few weeks*

Read and try to answer them after each presentation