Biological Objectives for California Streams CWQMC 29 May 2012

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- Biological Objectives Policy Development (Karen Larsen)
- Standard Indicators and Thresholds (Ken Schiff)



May 2012

Relevance to Council

- Coordinate monitoring for decision making
 - Public
 - Resource managers
 - Policy development
- Standardize when appropriate
 - Indicators
 - Thresholds for assessment



What are biological objectives?



Beneficial Uses Aquatic Life

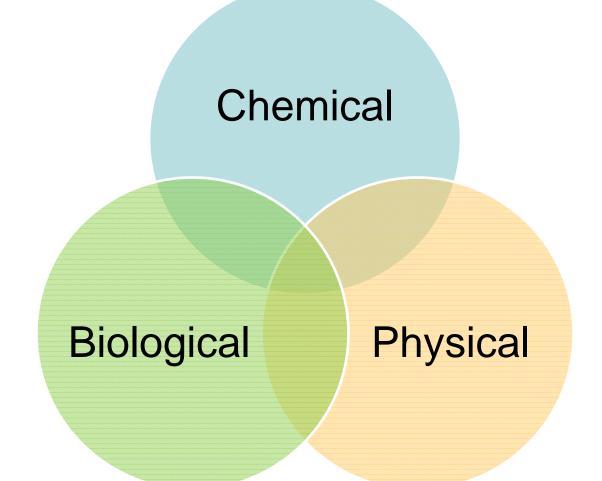
Water Quality Objectives Biological Objectives

Anti-degradation

Implementation 305(b), 303(d), Permitting

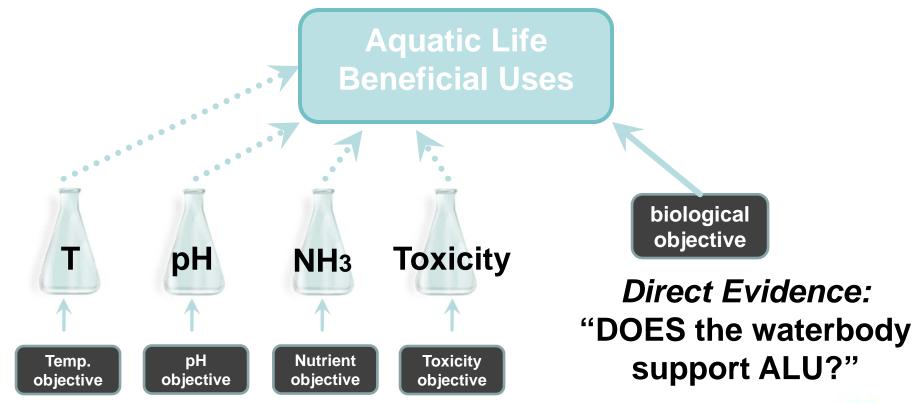


Biological Objectives for California



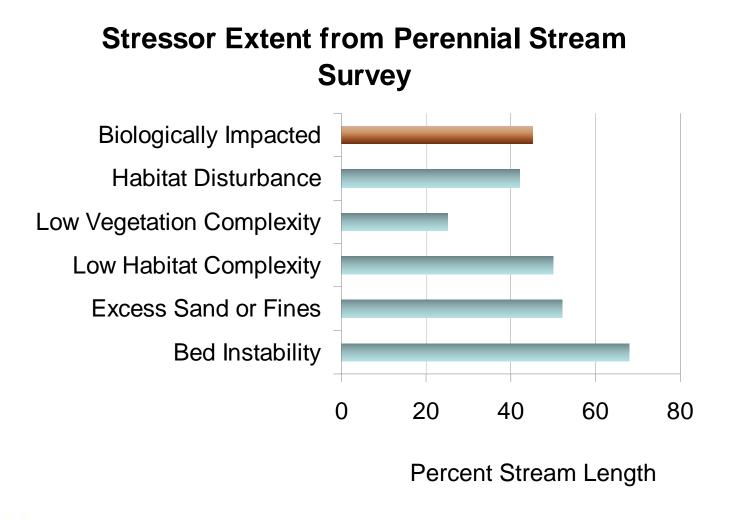


Biological Objectives for California



Indirect Evidence: "CAN the waterbody support aquatic life uses?"







- Streams are degraded
- Mechanisms for protecting streams are limited
- Mechanisms for restoring streams are limited
- Biological monitoring data are not assessed consistently statewide
- Regional Water Boards need measurable and enforceable biological thresholds



Biological Objectives – Future Vision

- Develop biological endpoints for multiple indicators
- Apply biological objectives to all water body types
- Statewide consistency with regional context and flexibility



Policy Goals

- Develop statewide narrative water quality objective to protect aquatic life uses
- Establish policy for identifying and protecting high quality streams (anti-degradation)
- Define how compliance with narrative objectives will be measured – numeric thresholds
- Establish realistic expectations for modified streams
- Ensure statewide consistency AND regional flexibility



Progress to Date

Date	Milestone
Mar 2010	 Project kick-off meeting. Solicited nominees for Stakeholder Advisory Group.
May-Oct 2010	Technical work plan approved
April 2011	Presented approach for establishing reference condition
Sep-Oct 2011	 Draft final report establishing reference condition Approach for developing scoring tools Pilot study results Draft assessment and implementation framework
Jan 2012	Initiated causal assessment pilot studies.
	Biological Objectives for California

Next Steps

Major Milestones	Estimated Date
Finalize reference condition definition	May 2012
Scoring tool complete	Sep 2012
CEQA scoping meetings	Jun-Jul 2012
Causal assessment guidance complete	Dec 2012
Board meeting information item on technical work	Jan 2013
Complete draft policy	Feb 2013
Scientific peer review	Jun-Jul 2013
Release public review draft policy	Sep 2013
Public workshops	Oct 2013
60-day comment period closes	Jan 2014
Board Meeting/Adoption	Apr 2014

Indicators and Thresholds

- Standardized Indicators
 - Field & lab methods
 - Data management
 - Quality assurance
 - Reference definition
 - Scoring tools
- Thresholds
 - Numeric definitions for identifying healthy and impaired streams

