ITEM 8 LATE ADDITION

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LAHONTAN REGION

MEETING OF JULY 10, 2019 BISHOP

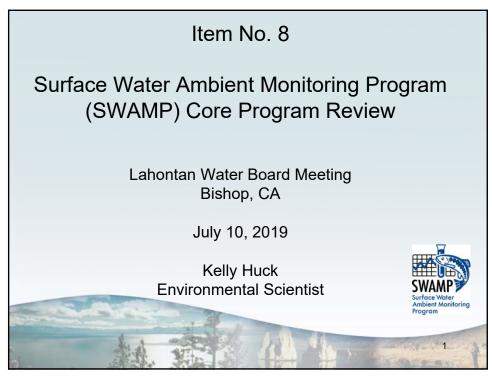
ITEM 8

SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP) CORE PROGRAM REVIEW

*****Please remove existing page 8-57 and replace with the following pages

ENCLOSURE	
2	The Surface Water Ambient Monitoring Program (SWAMP)
	Water Board Staff Presentation

ENCLOSURE 2

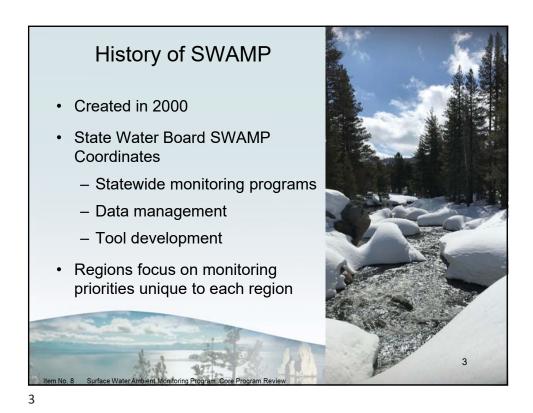


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SWAMP Core Program Review

- 1. History of SWAMP
- 2. Regional SWAMP (2000-2020)
- 3. Regional SWAMP in Transition
- 4. Program Revisions

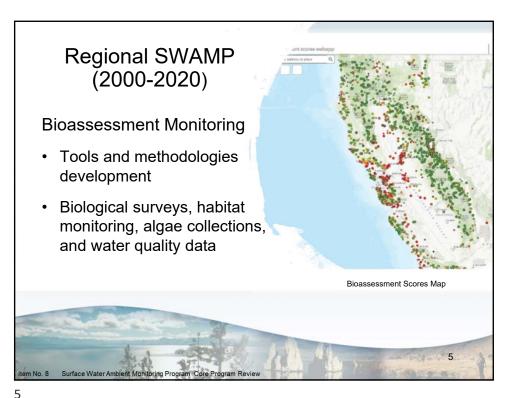




Regional SWAMP
(2000-2020)

Water Quality/Chemistry Monitoring
• Evaluating compliance with water quality objectives
• Targeted monitoring at 20-30 sites quarterly
• Primary source of data for the Integrated Report

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Regional SWAMP (2000-2020)

Bioaccumulation Monitoring

- Mercury and PCBs
- Supports development of OEHHA fish consumption advisories
- Advisories posted at Donner Lake, Silverwood Lake, Little Rock Reservoir, and Lake Gregory



Regional SWAMP (2000-2020)

Toxicity Monitoring

- Stream Pollution Trends Monitoring Program (SPoT)
 - Evaluates trends in sediment toxicity and relates them to watershed land uses
 - Show no toxicity in the Lahontan Region, but pyrethroid pesticides have been detected in 9 of 10 sites screened

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Regional SWAMP (2000-2020)

Special Studies

- Lake Tahoe Tributary Study (2013-2014)
- Bacteria Study (2012-2014)
- Microbial Source Tracking at Bacteria-Impaired Waters of the Lahontan Region
- Susan River Toxicity Project 2016

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Regional SWAMP (2000-2020)

Data Management

- SWAMP Quality Assurance Program Plan (QAPrP)
- California Environmental Data Exchange Network (CEDEN)
- SWAMP data is used in statewide assessments and models to develop indices and assess water quality

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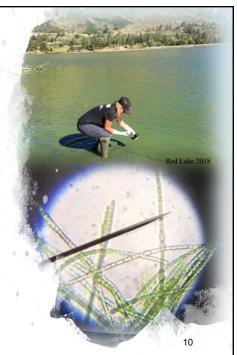
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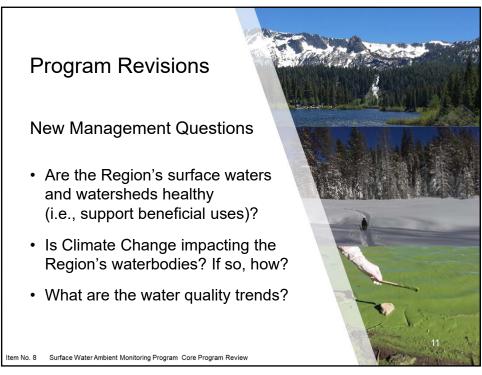
Regional SWAMP in Transition

New Challenges

- Freshwater Harmful Algae Blooms (FHAB)
- Instream Flows
- Contaminants of Emerging Concern (CEC)
- · Climate Change
- Data Management
- Safe Drinking Water



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Program Revisions • To determine trends (i.e. Is the water quality getting worse, better, or the same?) we will evaluate and report out on all data: – 20 years of data plus future SWAMP data – Water quality trends – Biological health trends

Program Revisions

- Efficiencies Increased Coordination with:
 - Water Board Regulatory and Enforcement Programs and TMDL and Basin Planning Programs
 - Regional partners
 - Eagle Lake Special Study
 - Tahoe Keys Property Owners Association

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