

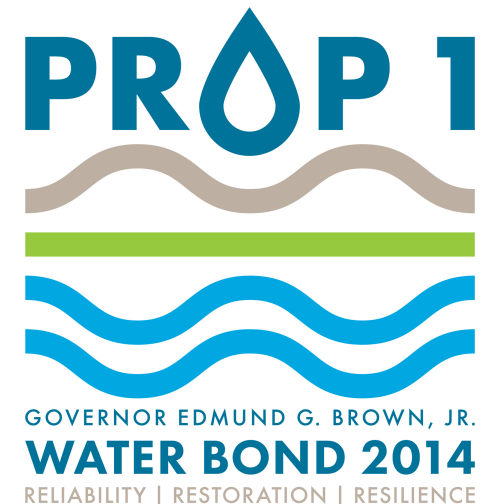
# SOUTHERN SIERRA IRWMP UPDATE

RWMG Meeting – December 7, 2017

# Prop 1 Update Requirements

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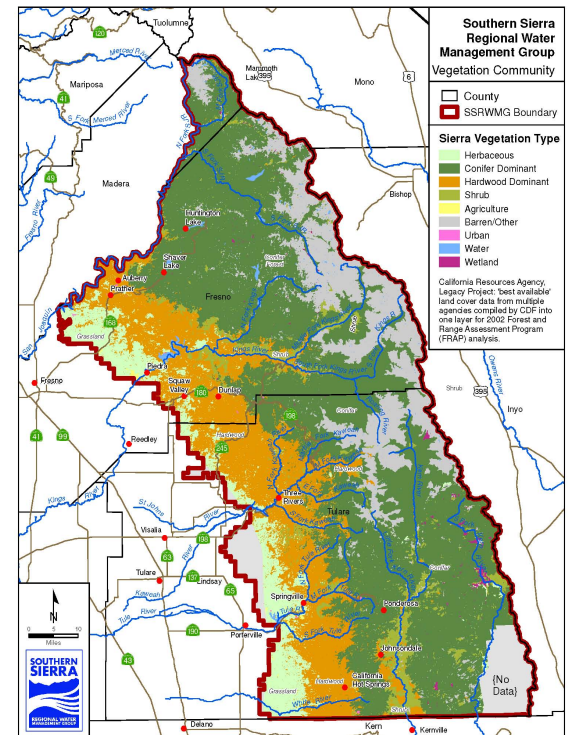
- **Review of first three chapter requirements:**
  - Chapter 3 – Region Description
  - Chapter 4 – Goals and Objectives
  - Chapter 5 – Resource Management Strategies



# Region Description Update Requirements

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- Expanded water quality assessment to comply with AB1249
  - ▣ Describe location of specific contamination constituents (nitrate, arsenic, perchlorate and hexavalent chromium)
  - ▣ Describe impacts of contamination
  - ▣ Describe treatment methods
  - ▣ Actions addressing contamination
  - ▣ Additional actions needed
- Update Climate Change information
- Incorporate UC Merced Study (future)



# Ch. 3-Region Description Updates

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- Only the Water Quality sub-section of Chapter 3 is revised
- Revisions focus on new requirements to address nitrates, arsenic, perchlorate and hexavalent chromium; not a lot of current information available
  - ▣ Description of location, extent, and impacts of contamination
  - ▣ Actions undertaken to address contamination
  - ▣ Description of any additional actions needed to address contamination
- Other important changes or occurrences about which members may wish to provide write-ups ?

# Goals & Objectives Update Requirements

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- Development of new goals
  - ▣ Run-off/recharge
  - ▣ Sea level rise
  - ▣ Reducing energy consumption
  - ▣ Carbon sequestration
  - ▣ Renewable energy
  - ▣ CARB strategies
- Assign numerical metrics, as appropriate, to measure achievement of goals & objectives



# Ch. 4-Goals & Objectives Update

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- Table 4.1 Summary of Goals & Objectives
  - ▣ Refinements to Goals G.1 and G.4, and Objectives
  - ▣ New Goal G.7 and Objectives
  - ▣ Elaborations/additions to corresponding Goal and Objective narratives
- Table 4.2 Measurement Criteria for Refined/Added Objectives
- Section 4.5-Ranking of Goals & Objectives
  - ▣ Perform on-line survey again when revised goals & objectives are finalized
  - ▣ Modify Table 4.3 accordingly

# Draft 2018 Update of the CWP

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- Draft Update frames the State of California's need for:
  - ▣ More inclusive, integrated, and aligned water planning processes to prioritize and fund long-term, sustainable investment in water resources management.
  - ▣ Consistent and practical ways to measure progress and return on public investments over the long term.
  - ▣ Effective water resources management as an ongoing activity that is continuously evaluated using a cyclic process of:
    - Setting shared intent/outcomes/
    - Assessing past gains and deficiencies.
    - Taking Action.
    - Measuring effectiveness.
    - Adapting as needed.
    - Repeating the cycle.

# Draft 2018 Update of the CWP

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- Draft 2018 CWP Update is focussed on
  - ▣ sustainability,
  - ▣ increased rigor in tracking effectiveness,
  - ▣ learning from what is working and
  - ▣ adapting quickly from lessons learned.



# Resource Management Strategies Requirements

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- Expand 32 RMS to discuss impacts of climate change and greenhouse gas emissions (future input from UCM study); added benefits:
  - ▣ Ability of RMS to reduce impacts (and means to measure progress would reflect Draft 2018 CWP Update)
  - ▣ Ability of RMS to reduce vulnerabilities (and ability to assess past gains and deficiencies would reflect Draft 2018 CWP Update)
  - ▣ Ability of RMS to help with adaptation (and repeating the cycle would reflect Draft 2018 CWP Update)

# Ch. 6-Resource Management Strategies Update

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- Acknowledge 2013 CA Water Plan is now adopted (no longer “draft”)
- Acknowledge a Draft 2018 CWP Update is now in progress
- Add Carbon Sequestration as an ‘Other Strategy’ in Table 5.1; \*\*voluntary strategy by the SS RMWG
- Add 5.9.8, Narrative about benefits of Carbon Sequestration in GHG reduction and use of biochar in improving water quality
- Updates on Climate Change (future UCM Study)

# Next Chapter Update Requirements

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## □ Chapter 6 – Project Review

### ■ Incorporate 7 specified climate change consideration review factors (coordinate with UCM)

1. Discuss effects of climate change; consider if adaptations to water management system are necessary
2. Consider contribution of projects' to adapting to vulnerabilities to climate change effects in the region
3. Consider changes in amount, intensity, timing, quality and variability of runoff and recharge
4. Consider effects of SLR on water supply conditions and identify suitable adaptation measures
5. Consider Projects' ability to reduce GHG emissions in region over the 20-year planning horizon
6. Reduce energy consumption, especially energy embedded in water use

### ■ How important are these to incorporate in SS? How many points should they be worth?

## □ Chapter 8 – Plan Performance and Monitoring

- Add policies and procedure that promote adaptive management projects:
  - as effects of climate change manifest,
  - as new tools are developed,
  - as new info becomes available; adjust IRWM plans accordingly
- These may be only minor amendments
- Are there Project types relevant to SS that would be important to add to Appendix G List?
- Are there Scoping Criteria considerations for prioritization of these types of Projects (Appendix I)?

- Chapter 12 – Land Use and Water Planning
  - ▣ Add descriptions of consideration of water management and climate change adaption/mitigation strategies from local plans into the IRWM Plan (Future coordination with UCM)
    - Should matrix be expanded to add climate change adaptation/mitigation? Perhaps as an “Other”?
    - Revisit documents in 2014 Plan: Did any deal with climate change?
    - Have any of the documents listed been updated?
    - Are there new documents that focus more deliberately on water management and climate change that should be considered?

# Closing

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□ Questions?

# Grant Scope of Work

- UC Merced Climate Change Study
  - ▣ “Assessment of Climate Change Effects on Water Supply/Quality in Southern Sierra Nevada Watersheds”
    - Data Synthesis
    - Forest Vulnerability Analysis and Delineation
    - Integrated Modeling of the Kings River Watershed and Alternative Futures

# Grant Scope of Work - Outreach

- Update 10 of 16 Chapters of the 2014 Plan
  - ▣ *Region Description*
  - ▣ *Goals and Objectives*
  - ▣ *Resource Management Strategies*
  - ▣ *Project Review Process*
  - ▣ *Plan Performance and Monitoring*
  - ▣ *Relation to Local Land Use & Water Planning* (2 chapters combined)
  - ▣ *Stakeholder Involvement*
  - ▣ *Climate Change (including integration of UC Merced Study)*
  - ▣ *Disadvantaged Communities* (new chapter)



# Grant Scope of Work

- 4 (quarterly) RWMG meetings
- Up to 4 Coordinating Committee meetings
- Stakeholder Outreach
  - ▣ At least 4 half-day workshops (RWMP driven agendas)
  - ▣ Prepare and present IRWM educational materials
- Climate Change Outreach
  - ▣ Website & social media, update materials and distribution plan
- Updated plan for disadvantaged community outreach & assessment/integration of DAC needs

# Schedule

- December Quarterly Meeting
  - ▣ Present Drafts of Chapters 3, 4, & 5 and receive feedback
  - ▣ Discuss Update Requirements for:
    - Chapter 6 – Project Review Process
    - Chapter 8 – Plan Performance and Monitoring
    - Chapter 12 – Land Use and Water Planning

# Schedule

- March Quarterly Meeting
  - ▣ Present Revised Drafts of Chapters 3, 4, & 5
  - ▣ Present Drafts of Chapters 6, 8, & 12 and receive feedback
  - ▣ Discuss Update Requirements for:
    - Chapter 13 – Stakeholder Involvement
    - Chapter 15 – Climate Change
    - Chapter 16 – Disadvantaged Communities
  - ▣ Present Draft UC Merced Climate Change Study

# Schedule



- June Quarterly Meeting
  - ▣ Present Revised Drafts of Chapters 6, 8, & 12
  - ▣ Present Drafts of Chapters 13, 15, & 16 and receive feedback

# Go Forward Strategy

## □ June through August

- ▣ Schedule distribution of 1<sup>st</sup> composite Draft of all revised IRWM Plan Chapter Updates and completed UC Merced Climate Change Study
- ▣ Schedule meeting to discuss and receive further feedback
- ▣ Circulate Final Draft IRWM Plan Update (composite) and Climate Change Study for RWMP for “acceptance”
- ▣ Submit IRWM Plan Update to DWR (by 8-28-18)