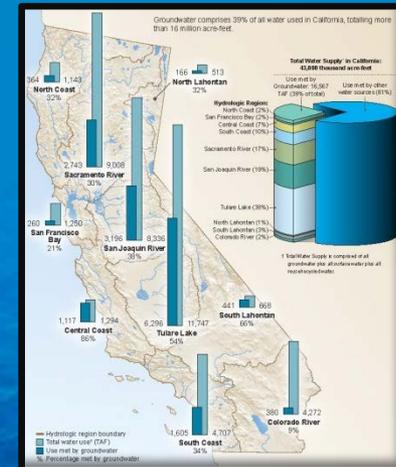
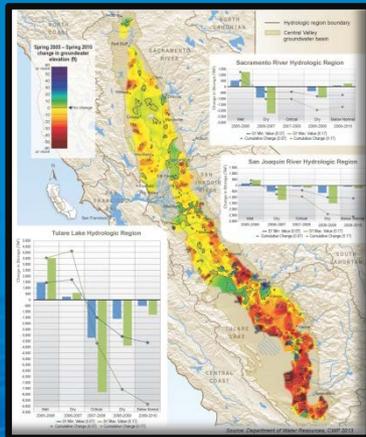




# DEPARTMENT OF WATER RESOURCES

## How are DWR's current groundwater efforts in alignment with the Governor's Water Action Plan and DWR's Drought Management structure?



California Water Commission Meeting  
March 19, 2014

Dan McManus

[dan.mcmanus@water.ca.gov](mailto:dan.mcmanus@water.ca.gov)

(530) 529-7373



# DWR's Groundwater Programs and Functional Organizational Structure

## DWR Mission

To manage the water resources of California in cooperation with other agencies, to benefit the State's people, and to protect, restore, and enhance the natural and human environments

## DWR Vision for Sustainable Groundwater Management

DWR promotes sustainable groundwater management at the local and regional level through technical guidance, financial assistance, interagency coordination, groundwater monitoring, basin assessments, and advancement of integrated regional water management.

## IRWM: Advance IRWM to Promote Sustainable Groundwater Management

## DWR's Groundwater Programs and General Functions

### California Water Plan (CWP)

Provides a strategic plan for California's water resources through data analysis and reporting, agency coordination, and stakeholder input

### California Statewide Groundwater Elevation and Monitoring (CASGEM)

#### GW Elevation Data Management

Provides voluntary data collection and reporting program that enables statewide analysis of California's GW conditions in alluvial groundwater basins

#### Technical Assistance and Guidance

Provides local and statewide technical assistance & guidance for sustainable GWM through data analysis, Basin Prioritization, Improved Standards, Methods, and BMPs

#### Bulletin 118 Updates & Basin Assessments

Provides a detailed summary and evaluation of alluvial aquifers and groundwater data to optimize and guide sustainable GWM

### Financial & Facilitation Assistance

Advances IRWM through funding support for technical, financial, and facilitation services to local agencies through planning, studies, and projects

### Future Water Supply Program (FWSP)

Provides data collection and analysis to facilitate and support Sacramento Valley groundwater substitution transfers and conjunctive mgmt.

## Long-Term Baseline Data Collection and Management

Groundwater Elevations, Water Quality, Streamflow, Well Completion Reports, Land Subsidence, Land & Water Use, and Climate Data

# DWR Groundwater-Related Drought Activities

## Governor's Drought Proclamation



### Action #11

The Department of Water Resources will evaluate changing groundwater levels, land subsidence, and agricultural land following as the drought persists and will provide a public update by April 30 that identifies groundwater basins with water shortages and details gaps in groundwater monitoring.

### Action #12

The Department of Water Resources will work with counties to help ensure that well drillers submit required groundwater well logs for newly constructed and deepened wells in a timely manner and the Office of Emergency Services will work with local authorities to enable early notice of areas experiencing problems with residential groundwater sources.



## California Water Action Plan

More Reliable  
Water Supplies

Restoration  
of Species &  
Habitat

Sustainably  
Managed Water  
Resources



### Action #6: Expand Water Storage Capacity and Improve Groundwater Management

- a. Provide Essential Data to Enable Sustainable GWM
- b. Support Funding Partnerships for Storage Projects
- c. Update Bulletin 118, California's Groundwater Plan
- d. Improve Sustainable Groundwater Management
- e. Support Distributed Groundwater Storage
- f. Increase Statewide Groundwater Recharge
- g. Accelerate Clean-up of Contaminated Groundwater and Prevent Future Contamination

#### California Water Action Plan



# DWR Emergency Drought Organizational Structure

**Water Transfers\***  
**Molly White / Tom Filler**

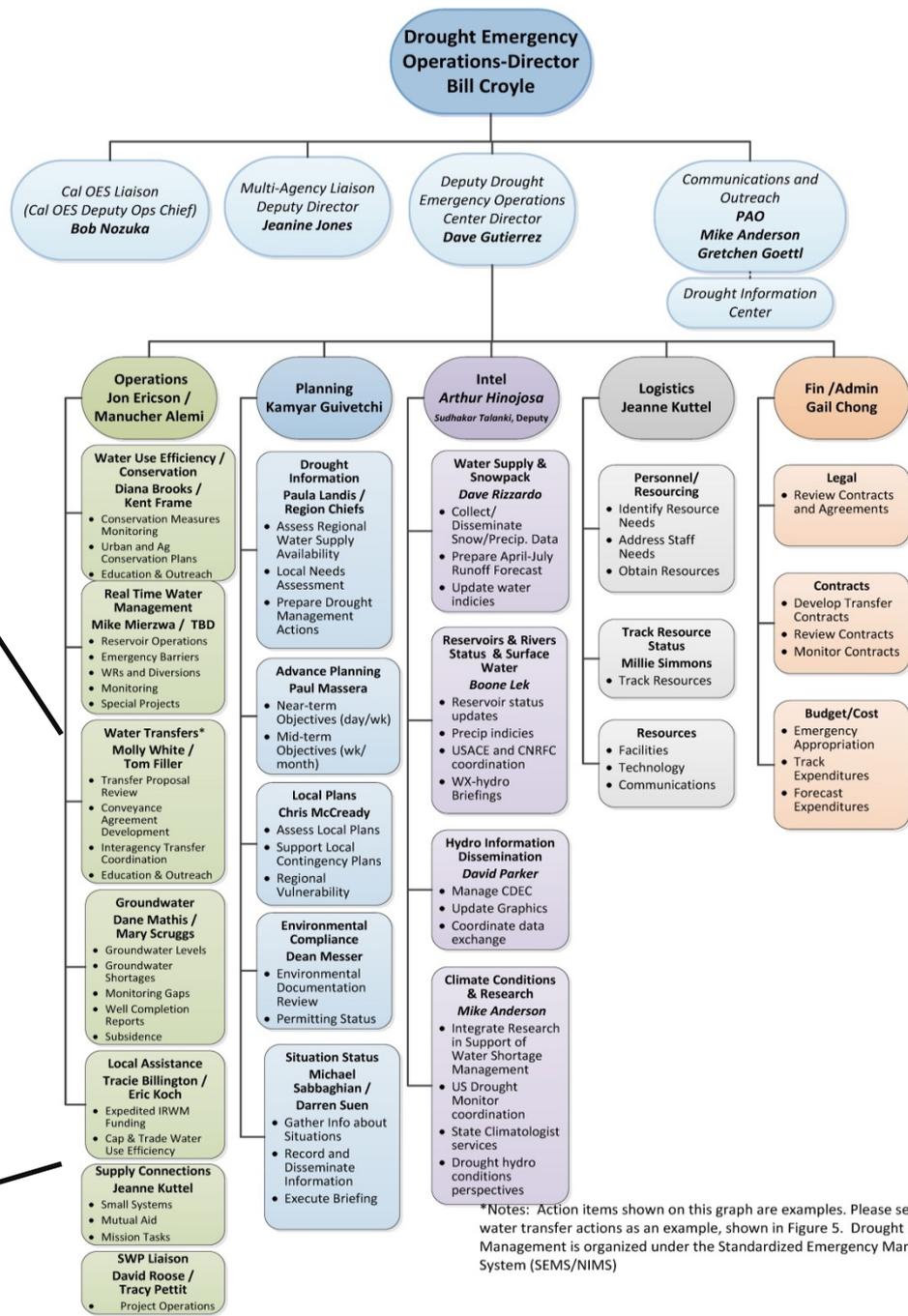
- Transfer Proposal Review
- Conveyance Agreement Development
- Interagency Transfer Coordination
- Education & Outreach

**Groundwater**  
**Dane Mathis / Mary Scruggs**

- Groundwater Levels
- Groundwater Shortages
- Monitoring Gaps
- Well Completion Reports
- Subsidence

**Local Assistance**  
**Tracie Billington / Eric Koch**

- Expedited IRWM Funding
- Cap & Trade Water Use Efficiency



\*Notes: Action items shown on this graph are examples. Please see details of water transfer actions as an example, shown in Figure 5. Drought Emergency Management is organized under the Standardized Emergency Management System (SEMS/NIMS)



# DWR Groundwater-Related Drought Actions

## Governor's Drought Proclamation

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## DWR Drought Groundwater Team Activities

### Action #11

1. Changing GW Levels: (Central Valley)
  - a) Change in GW Elevations...Dot Maps
    - Fall 2004 – Fall 2013
    - Fall 2012 – Fall 2013
  - b) Gaps in GW Monitoring
2. Identify Water Short Basins
  - a) GW Basin with high reliance on GW
  - b) Updated GW Use by GW Basin
  - c) Wells that have been Deepened since 2010
  - d) Known impacts to local supplies
3. Land Subsidence Update

### Action #12

1. Identified all Current C-57 Drillers in California
2. Sent Letter to all CA Drillers Requesting to Submit Logs within required 60-day period.
3. Established Contact list for Well Permit in all 58 Counties
4. Sent Letter to all Counties to Track and Coordinate Well Permitting with DWR.
5. Currently following up with Counties on Drilling activity
6. Develop Summary Map Sac Valley Well Depth vs Depth to GW.

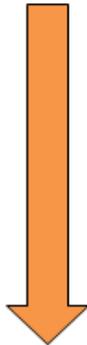
April 30, 2014 Report to the Governor

CASGEM Emergency Funding Actions

# CWAP and Interagency Alignment (draft)

**SWRCB Mission**

To preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.



**Draft Groundwater Workplan Concept Paper**

Proposed framework to organize Water Board's groundwater activities to address groundwater challenges that have the greatest potential to impact beneficial uses, focus limited resources on most important groundwater problems, and facilitate more efficient local and regional groundwater management and provide support and oversight where needed.



- Management Elements and Potential Actions**
1. Sustainable Thresholds
  2. Monitoring and Assessment
  3. Governance and Management
  4. Funding
  5. Oversight and Enforcement



**California Water Action Plan**

More Reliable Water Supplies	Restoration of Species & Habitat	Sustainably Managed Water Resources
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- Action #6: Expand Water Storage Capacity and Improve Groundwater Management**
- a. Provide Essential Data to Enable Sustainable GWM
  - b. Support Funding Partnerships for Storage Projects
  - c. Update Bulletin 118, California's Groundwater Plan
  - d. Improve Sustainable Groundwater Management
  - e. Support Distributed Groundwater Storage
  - f. Increase Statewide Groundwater Recharge
  - g. Accelerate Clean-up of Contaminated Groundwater and Prevent Future Contamination



**DRAFT**

**DWR Mission**

To manage the water resources of California in cooperation with other agencies, to benefit the State's people, and to protect, restore, and enhance the natural and human environments.



**DWR's Guiding Principles for Groundwater Management**

No transfer of impacts; Regions accept responsibility for assessing risk; Develop IRWMPs to manage risk appropriately, Improve alignment of federal, state & local government to a provides tools, data, and guidance to encourage sustainable GWM

Local and regional agencies are best able to establish and implement sustainable groundwater management practices that provide widespread benefits to the public, economy, and environment.

If local or regional agency actions are insufficient to achieve sustainable groundwater management, further actions and responsibilities by the State will be required to redirect and implement sustainable groundwater management practices.



**DWR Vision to Improve Groundwater Management**

DWR promotes sustainable groundwater management at the local and regional level through technical guidance, financial assistance, interagency coordination, groundwater monitoring, basin assessments, and advancement of integrated regional water management.



- 5-year Implementation Plan Actions to Improve Groundwater Management**
1. Coordinate Management of State Groundwater Programs
  2. Provide Local and Regional Groundwater Assistance
  3. Establish Long-term Baseline GW Monitoring & Reporting
  4. Implement Groundwater Basin Assessments
  5. Improve Authority and Governance of Sustainable GWM



Activities with Milestones and Performance Measures



# Questions?



Dan McManus

[dan.mcmanus@water.ca.gov](mailto:dan.mcmanus@water.ca.gov)

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