



Westlands Water District

SGMA WORKSHOP

February 9, 2018

GROUNDWATER MANAGEMENT GUIDING PRINCIPLES

The District, serving as the GSA for the Westside Subbasin, assures the beneficial users of groundwater managed by the District that in the preparation, adoption and administration of GSP, it will:

- Adopt and pursue the dual objectives of (i) optimizing the reasonable and beneficial use of groundwater and (ii) avoiding undesirable results;
- Consider the interests of all beneficial uses and users of groundwater;
- Diligently seek and rely upon best available technical information;

GROUNDWATER MANAGEMENT GUIDING PRINCIPLES CONTINUED

- Be open and transparent – providing fair access to stakeholders and reasonable opportunities for input and feedback;
- Promote certainty by establishing and following clear procedures, rules and regulations;
- Evaluate and propose strategies to augment and replenish available groundwater supplies;
- Fairly allocate the costs incurred by the District among the beneficiaries of measures or strategies (e.g. via management areas/ augmentation/replenishment projects);

GROUNDWATER MANAGEMENT GUIDING PRINCIPLES CONTINUED

- Pursue and ensure coordination of its GSP with other GSAs to avoid an unfair or inequitable shifting of burden from one or more GSAs to the District and its landowners;
- Impose mandatory involuntary curtailment of groundwater production only after first evaluating other potential mitigation strategies;
- Adaptively manage in response to changing conditions and new information;
- Have no adverse effect on water rights within the subbasin.

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE

This outline presents Westlands' vision and the sequence of tasks for managing groundwater and completing the GSP for the Subbasin. The outline not only follows the order of completion to comply with the SGMA, but also includes tasks that are specific to the Subbasin, while providing the assurances presented in Westlands' Groundwater Management Guiding Principles.

A. Plan Objectives

1. Optimize the Reasonable and Beneficial Use of the Basin and its Waters in a manner that minimizes and avoids “undesirable results.”
2. Assurance of Fundamental Fairness
3. No Adverse Effect on Water Rights

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE CONTINUED

B. Geographic / Economic / Program Settings

1. Plan Area
2. Identification of Groundwater Dependent Beneficial Uses / Stakeholders
3. Economic Productivity
4. Existing District Programs
5. Variability / Elasticity in Groundwater Demands Dependent Upon Surface Water Availability
6. Relative Efficiency / Productivity of Groundwater Dependent Beneficial Uses
 - a. Conservation Efforts
 - b. Water Duty

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE CONTINUED

C. Hydrologic Setting

1. Basin Characteristics
2. Inflow / Outflow - Recharge - Discharge
3. Identification/Differentiation of Hydrologic Sub-Units
4. Variability of Foreign, Developed and Supplemental Water
5. Identification of Undesirable Results and Relationship to Groundwater Pumping / Available Water
6. Water Budget See DWR BMPs
7. Estimate of Sustainable Yield

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE CONTINUED

D. Management Strategy

1. Manage by Hydrologic Zone to Optimize Beneficial Use and Minimize / Avoid Undesirable Results
2. Management Zone Specific Water Budget
3. Universally Applicable Management Standards / Sustainability Criteria
 - a. Minimum Thresholds
 - b. DWR BMPs
4. Set Management Zone Specific Standards and Sustainability Criteria
 - a. Minimum Thresholds
 - b. DWR BMPs

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE CONTINUED

E. Management Actions / Projects / Programs

1. Undesirable Result / Physical Mitigation Measures
2. Baseline Supply
3. Stakeholder Provisional Allocations
4. District Baseline Supply Enhancement / Diversification / Demand Reduction
 - a. Local Supplies
 - b. Developed / Salvage Water Opportunities
 - i. Brackish water desalting
 - ii. Local projects
 - c. Foreign Water
 - d. Groundwater Banking / Storage
 - e. Retirement of Land / Allocation
 - i. Short-Term
 - ii. Long-Term

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE CONTINUED

E. Management Actions / Projects / Programs (Continued)

5. Voluntary Measures

- a. Conservation Credits
- b. Augmentation Credits
- c. Trading Criteria
 - i. Portability
 - ii. Quantities
 - iii. Procedures
 - iv. Protections

6. Financing

- a. Program Beneficiaries
- b. Cost-Benefit
- c. Grants
- d. Project Finance

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE CONTINUED

F. Monitoring and Reporting

G. Adaptive Management / Plan Updates

1. Time Horizon / Implementation Schedule
2. Planned Revisions Towards Sustainability
3. Exigent Circumstances
4. Responsive Action

GROUNDWATER SUSTAINABILITY PLAN: CONCEPTUAL OUTLINE CONTINUED

H. Coordination

1. Stakeholders
2. Consistency with District Planning and Programs
3. Inter-Agency Coordination

I. Governance

1. Technical Advisory
2. Stakeholder Leadership / Involvement

J. Dispute Resolution