LA River Environmental Flows Study

Why Am I Here?

- State Water Board supports both:
 *Maximizing the use of recycled water
 *Protection of Beneficial Uses
- These two goals are in conflict on the LA River
 - Wastewater Change Petitions (1211 Order)
 - Protests

This is an issue in many effluent dominated waterbodies

What Are The Alternatives?

>Option A: Water Rights moves forward with petitions

- May or may not be first come first serve
- May be based on existing data
- Will be conservative in terms of more water in the river

Option B: Develop a more robust scientific foundation

- Provides more flexibility
- Los Angeles River case study

Proposed Path Forward

Site specific study for the LA River

- Collaborative project
- Build on statewide framework

If we move forward, what do I expect?
 A study that will provide Water Rights what it needs
 Technical products in 24 months

State Water Board has committed \$1.3 million and staff resources to advancing environmental flow science

- Looking for a partnership to address LA River challenge
- ■Additional funding necessary to move forward (≈\$2 million)

California Environmental Flows Framework

Tier 1: Statewide approach for setting coarse scale ecological flow criteria

Tier 2: Regional and Site specific eflows where necessary

Data sharing (open data) + information dissemination to the public

LA Regional Board Climate Change Effects Project



Overall Objective

Develop and implement an approach to balance reuse of treated wastewater with protecting beneficial uses affected by treated wastewater discharges

- Support decision making under water code section 1211 wastewater change petitions
- Prototype for consideration of establishing environmental flows in urban (effluent dominated) systems
- Case study for implementation of Tier 2 of statewide framework

Major Tasks

- 1. Identify and prioritize beneficial uses
- 2. Relate priority beneficial uses to assessment endpoints
- 3. Develop quantitative targets
- 4. Develop an allocation strategy
- 5. Develop a monitoring and adaptive management strategy

Key Technical Elements

Develop conceptual models that relate change in flow to change in beneficial uses

Conduct gap analysis

➢Risk analysis of reduced flow on key ecological endpoints

Tradeoff analysis of alternative & concurrent management actions

Determine acceptable range of loss in beneficial uses
 STATE BOARD RESPONSIBILITY

Outcomes/Products

Evaluation of risks & benefits to key ecological endpoints associated with flow modification

 Set of acceptable ranges for flow/depth and wetted area to protect beneficial uses
 Representative of all ecologically relevant flows

Process of evaluating tradeoffs in management actions

These products will provide the information necessary for Division of Water Rights to develop a LA River Instream Flow Policy

Scope

Focus on non-storm flows
 Surface water only

 Groundwater as a boundary condition

 Mainstem LA River

 Tillman discharge (Bull Creek) discharge to the estuary
 Tributaries as a boundary condition

 Assume no change in urban runoff

Additional elements can be added as part of development of implementation strategy