

## 2015 Urban Water Management Plan

Public Utilities Board
June 27, 2016

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### **Background**

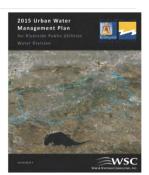
Urban Water Management Plans are required by the State:

- 1. Completed/updated every 5 years
- 2. Pre-requisite for certain loans and grants
- 3. Foundational documents for new development
- 4. Support long-term and drought planning
  - a. 25 year horizon

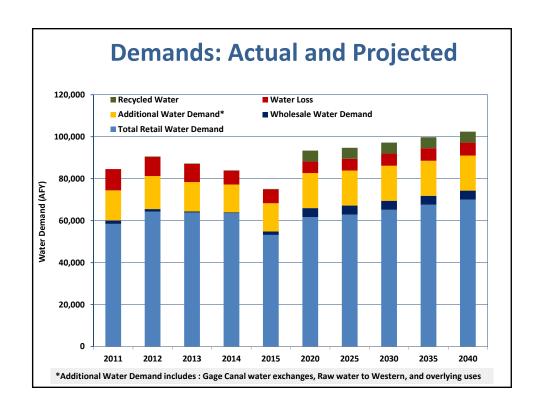


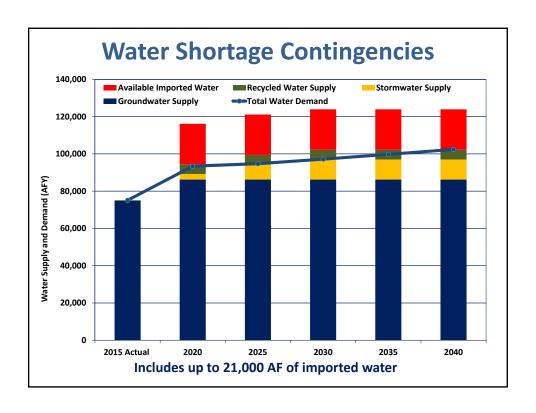
#### **Elements**

- Supply vs. Demand
- SBX7-7 Compliance
  - 20% reduction X 2020
- Source reliability
- Water Shortage contingencies
- Demand Management Measures (DMM)





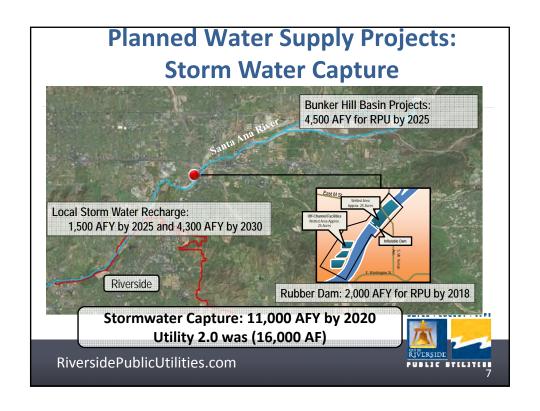


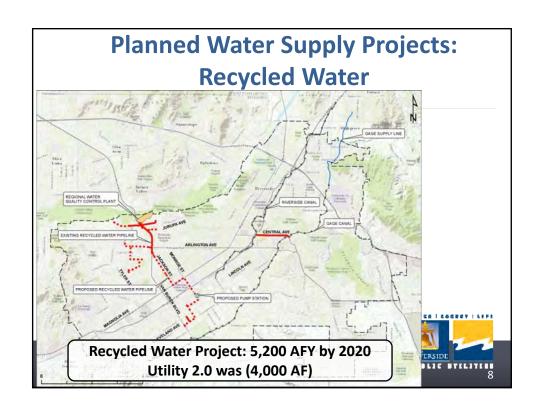


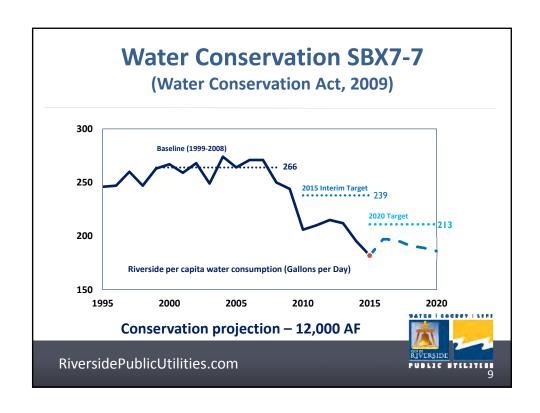
### **Projected Supply Gap 28,000 AF**

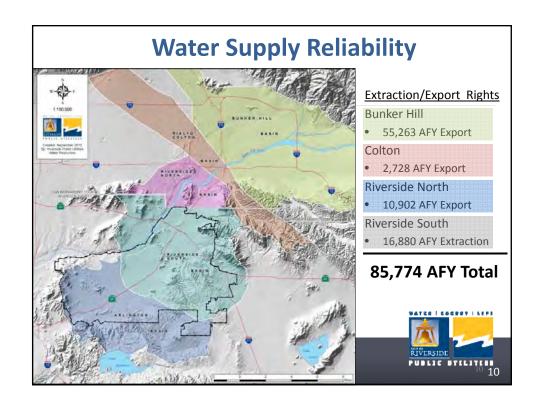
- 1. Utility 2.0
  - a. Stormwater Capture 16,000 AF
  - b. Recycled Water 4,000 AF
  - c. Conservation 10,000 AF
- 2. 2015 Urban Water Management Plan
  - a. Stormwater Capture 11,000 AF
  - b. Recycled Water 5,200 AF
  - c. Conservation 12,000 AF

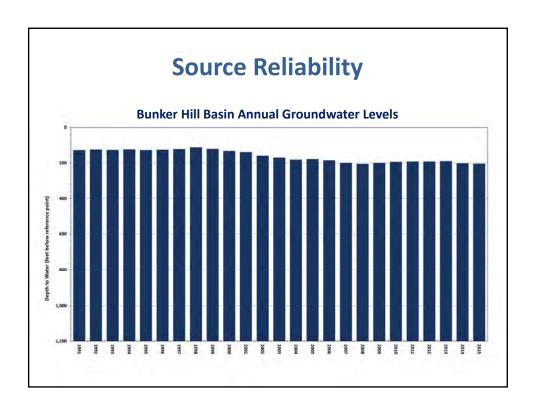












## **Source Reliability**

- 1. Water supplies are reliable for single and multiple year dry periods
- 2. Reliability increases with groundwater recharge projects



Demand Management Measures				
DMM	Status			
1. Water waste prevention ordinances				
2. Metering				
3. Conservation pricing				
4. Public education and outreach				
5. Real water loss management programs and systems				
6. Water conservation program and staffing support				
7. Other Demand Management Measures				
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#### **2015 UWMP Conclusions**

RPU's identified supplies exceed the expected demands through 2040 provided that it:

- 1. Continues conservation efforts
- 2. Implements long-range planning and developing new supplies



#### **2015 UWMP Conclusions**

- 3. RPU meets customer demands in a cost-effective and environmentally responsible manner
- 4. RPU effectively manages water resources by proactive planning and projects implementation
- 5. Utility 2.0 to be modified slightly based on changed conditions



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#### Recommendation

Recommend that the Board of Public Utilities:

- Conduct a public hearing for review of the 2015
   Urban Water Management Plan
- 2. Recommend that the City Council adopt the 2015 Urban Water Management Plan.



#### **Water Conservation SBX7-7**

# (Water Conservation Act, 2009) Baseline Calculation

- DWR Population Tool to re-calculate:
  - 1. service area population
  - 2. baseline per-capita use
  - 3. compliance targets GPCD
- Baseline Periods: RPU chose a 10 years period from 1999-2008

	Baseline Year	Service Area Population	Annual Gross Water Use	(GPCD)
	1999	247,753	72,610	262
	2000	249,744	74,465	266
	2001	252,935	73,314	259
	2002	256,166	78,137	272
	2003	259,439	73,805	254
	2004	262,754	82,085	279
1	2005	266,111	80,114	269
	2006	269,511	82,734	274
	2007	272,954	83,562	273
	2008	276,441	78,237	253
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10 Year Average Baseline GPCD

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