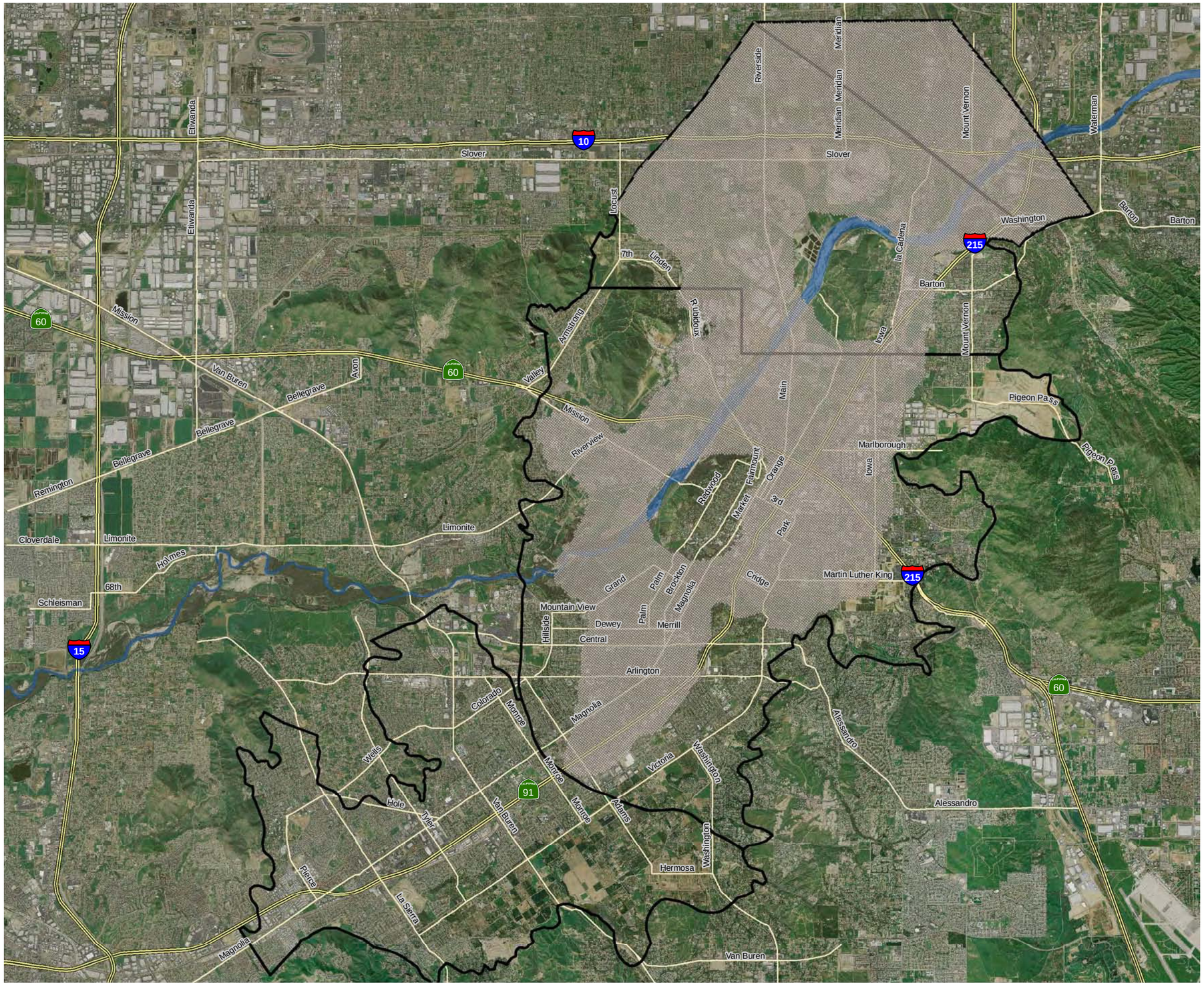
Figure 6
Active Model Cells
Layer 3



Legend

- Highway
- Roads
- Model Boundary
- Santa Ana River
- Active Model Cells - Layer 3

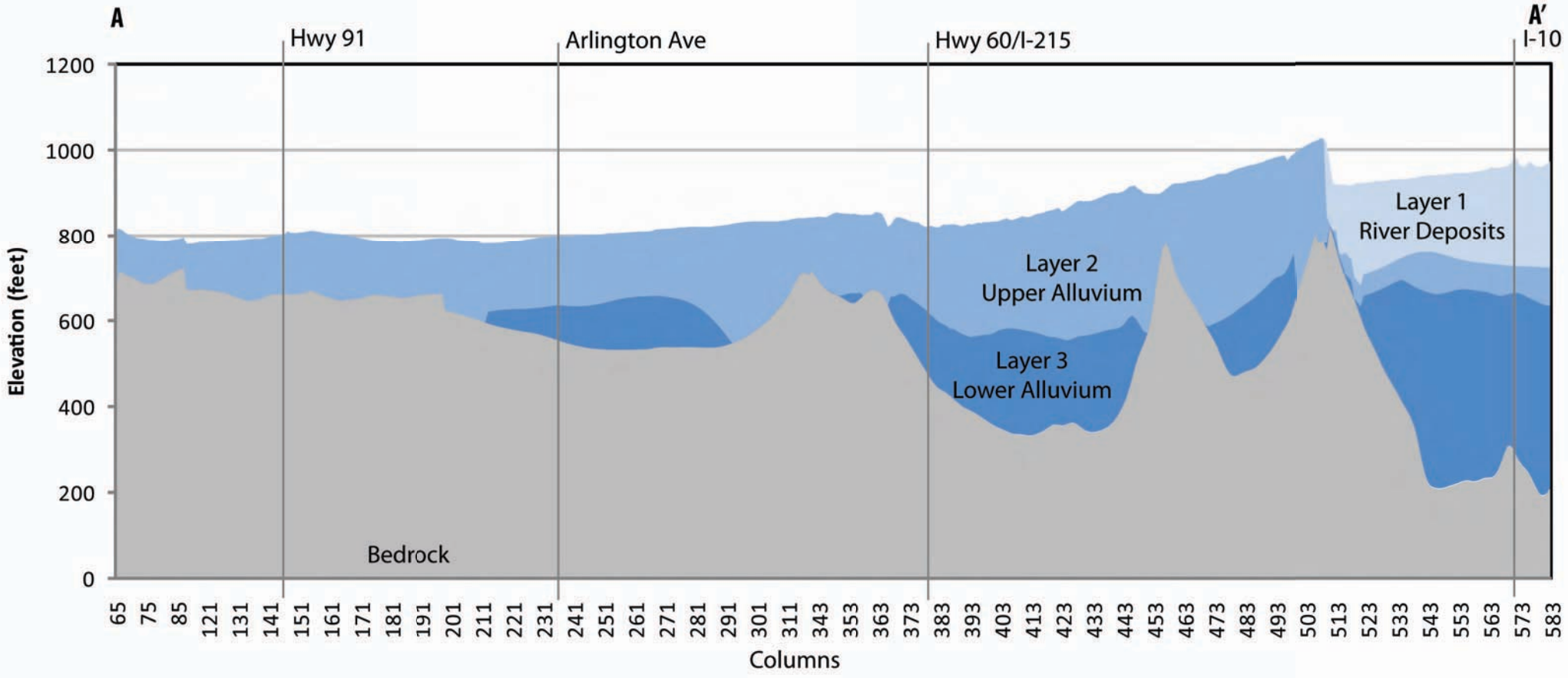
CITY OF RIVERSIDE

WESTERN MUNICIPAL WATER DISTRICT

RIME Water Resources & Information Management Engineering, Inc.

N
W E
S

0 0.5 1 2 3 4 Miles



CITY OF RIVERSIDE

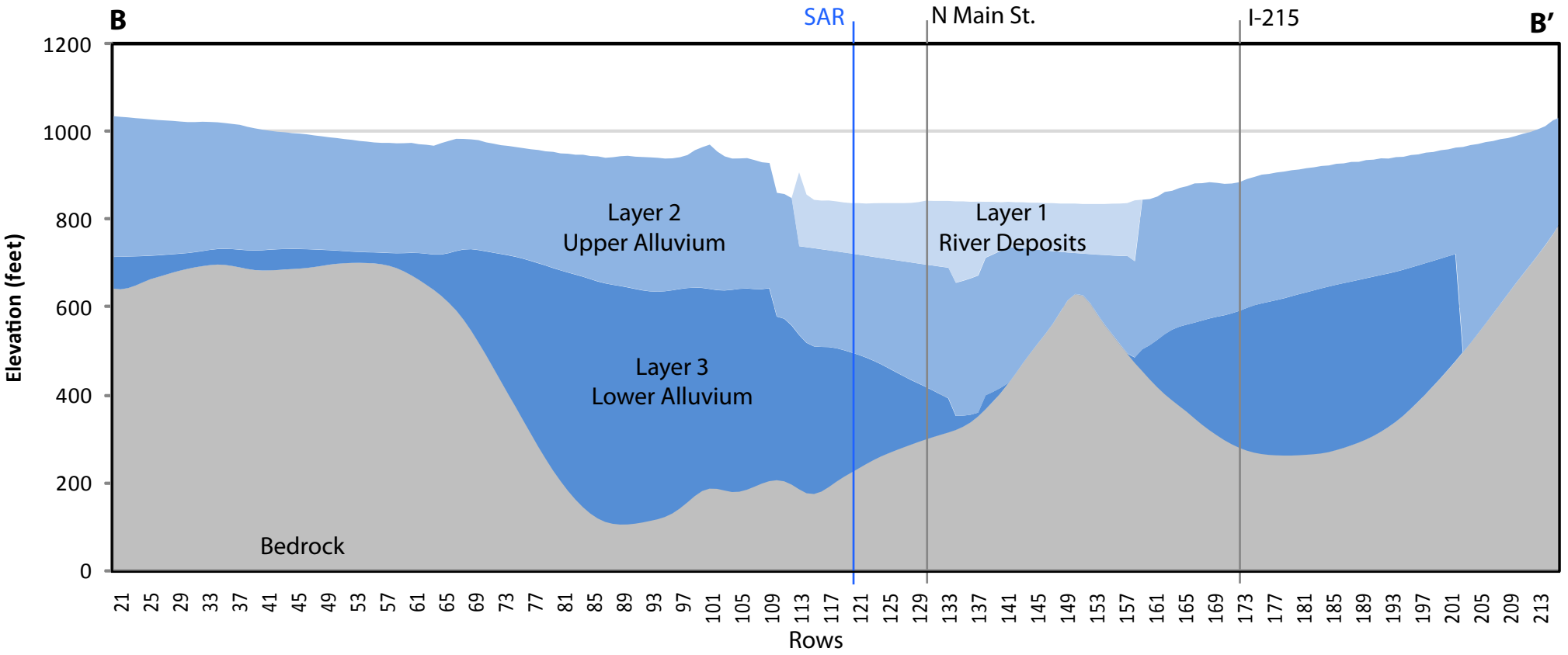
WESTERN MUNICIPAL WATER DISTRICT

Cross Section A-A'

Figure 7

April 2010

WRIME



CITY OF RIVERSIDE

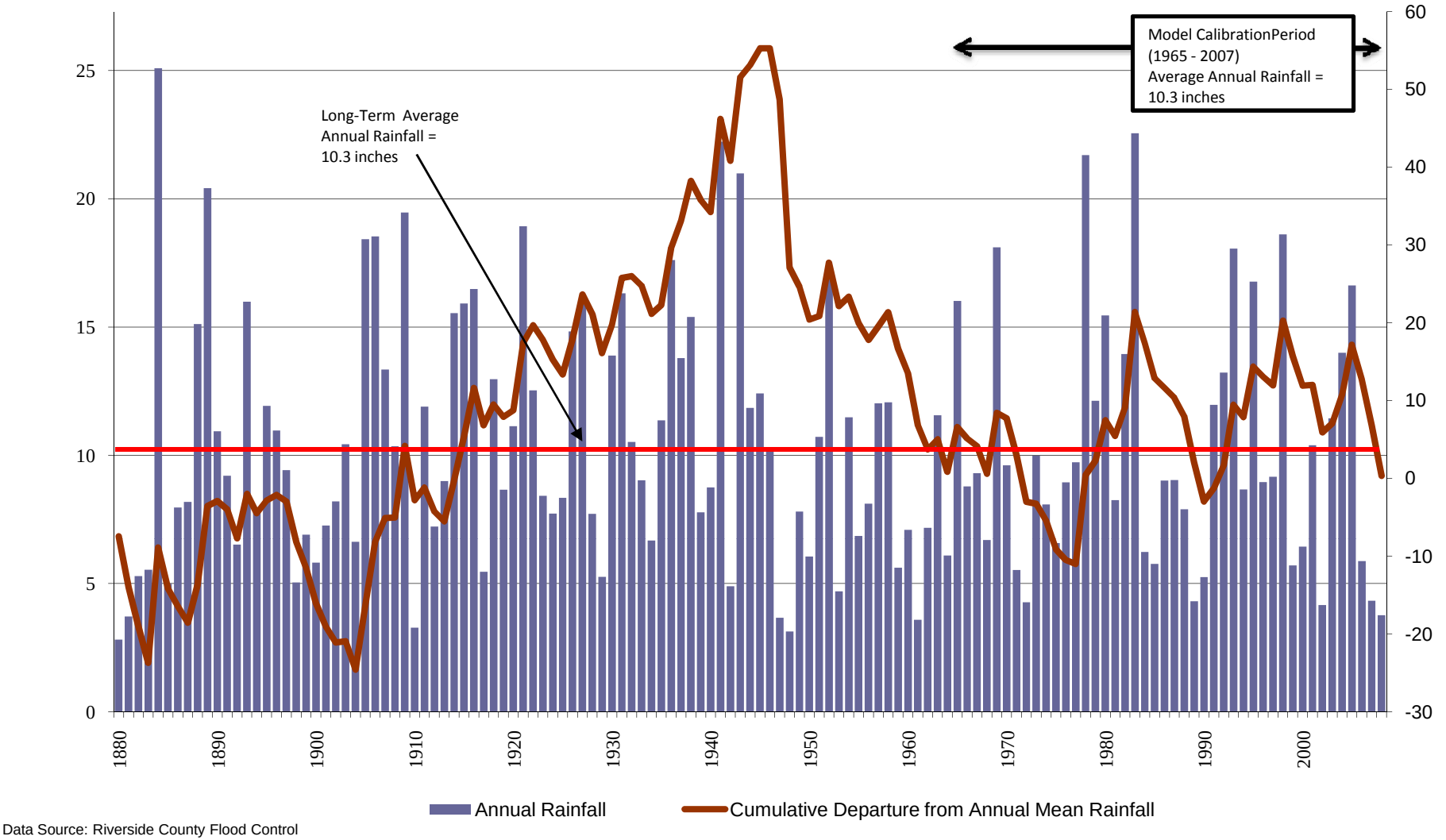
WESTERN MUNICIPAL WATER DISTRICT

Cross Section B-B'

Figure 8

April 2010

WRIME

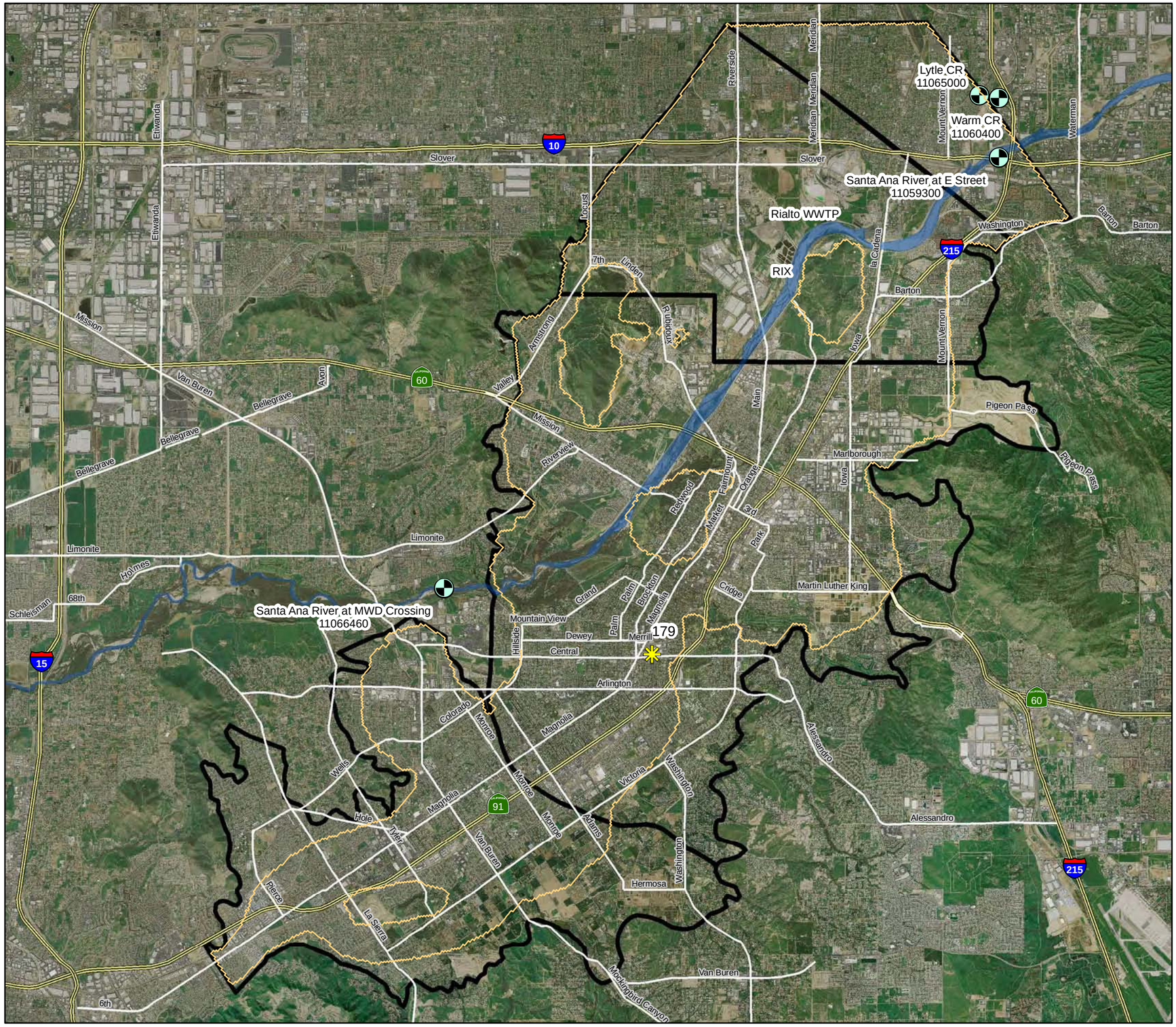


Data Source: Riverside County Flood Control and Water Conservation District

Annual Rainfall At Riverside Station 179

Figure 9
April 2010

Figure 10
Rainfall and Streamflow Stations



Legend

- Rainfall Station 179
- Stream Gage
- Highway
- Reference Roads
- Santa Ana River
- Active Model Cells

CITY OF RIVERSIDE

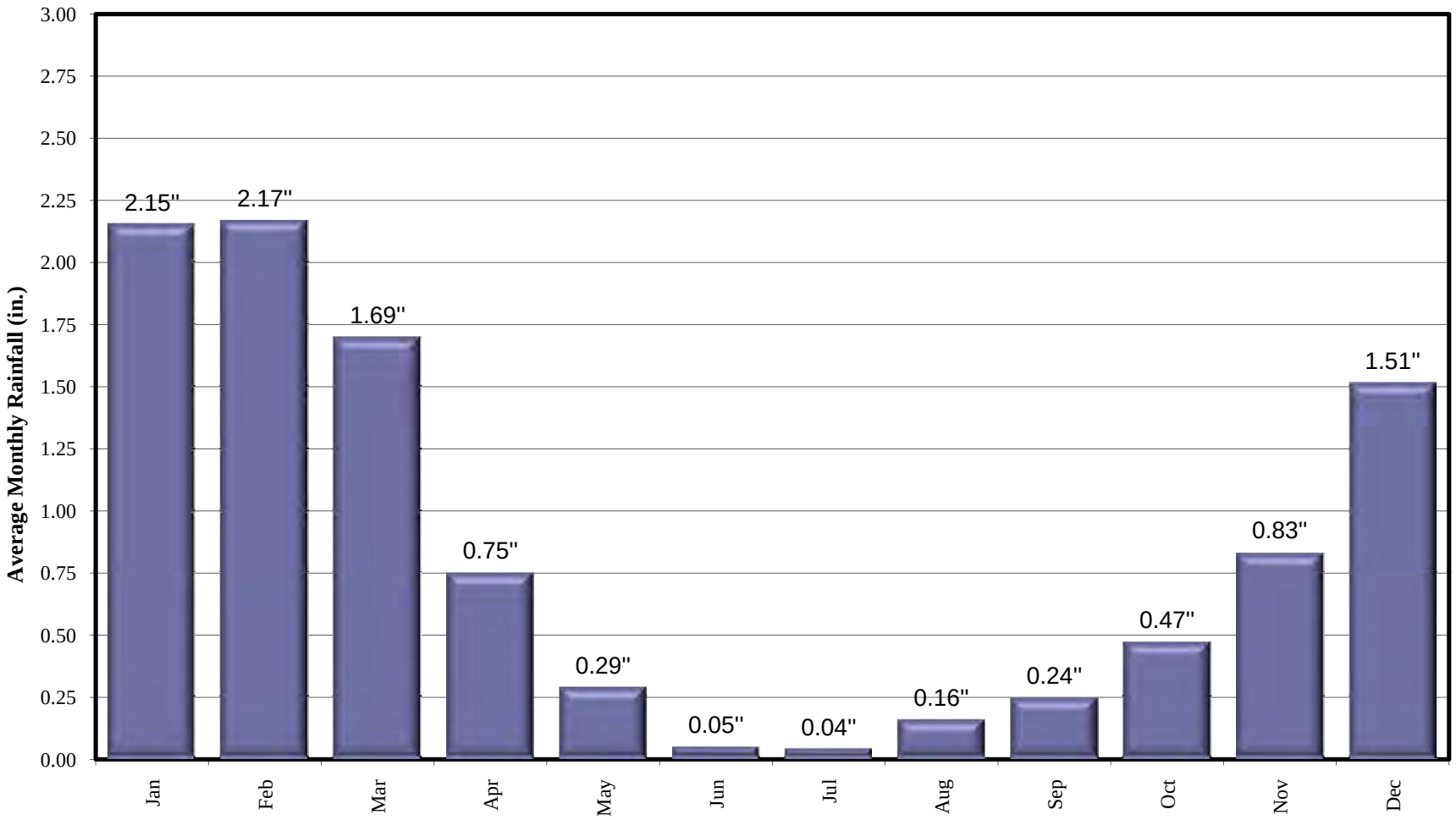
WESTERN MUNICIPAL WATER DISTRICT

RIME Water Resources & Information Management Engineering, Inc.

N
W E
S

0 0.5 1 2 3 4 Miles

Data Sources:
Rainfall Station - Riverside County Flood Control and Water Conservation District
Stream Gage - USGS



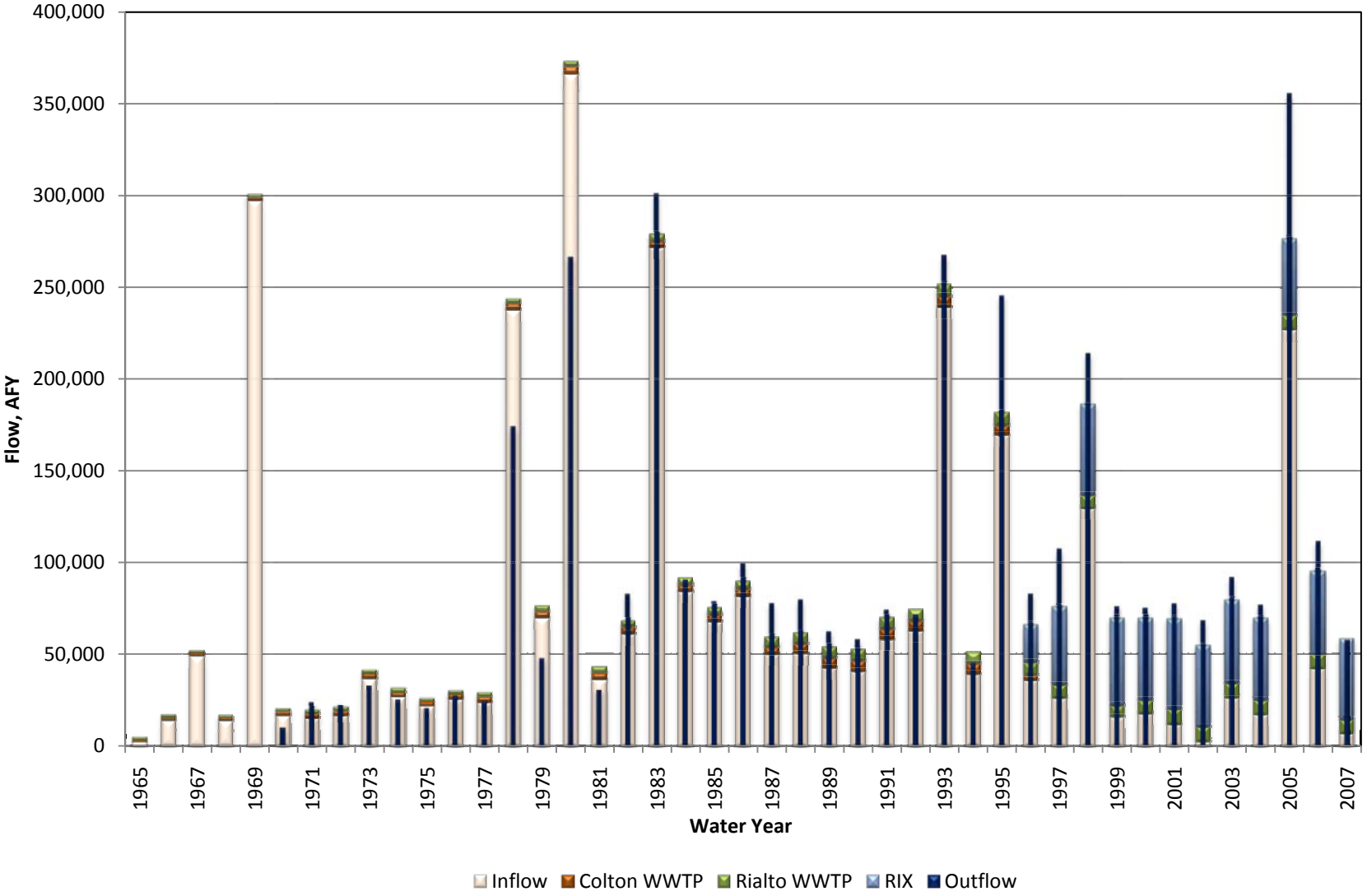
Data Source: Riverside County Flood Control and Water Conservation District

Average Monthly Rainfall at Riverside Station 179

(1880 to 2008 Hydrological Conditions)

Figure 11

April 2010

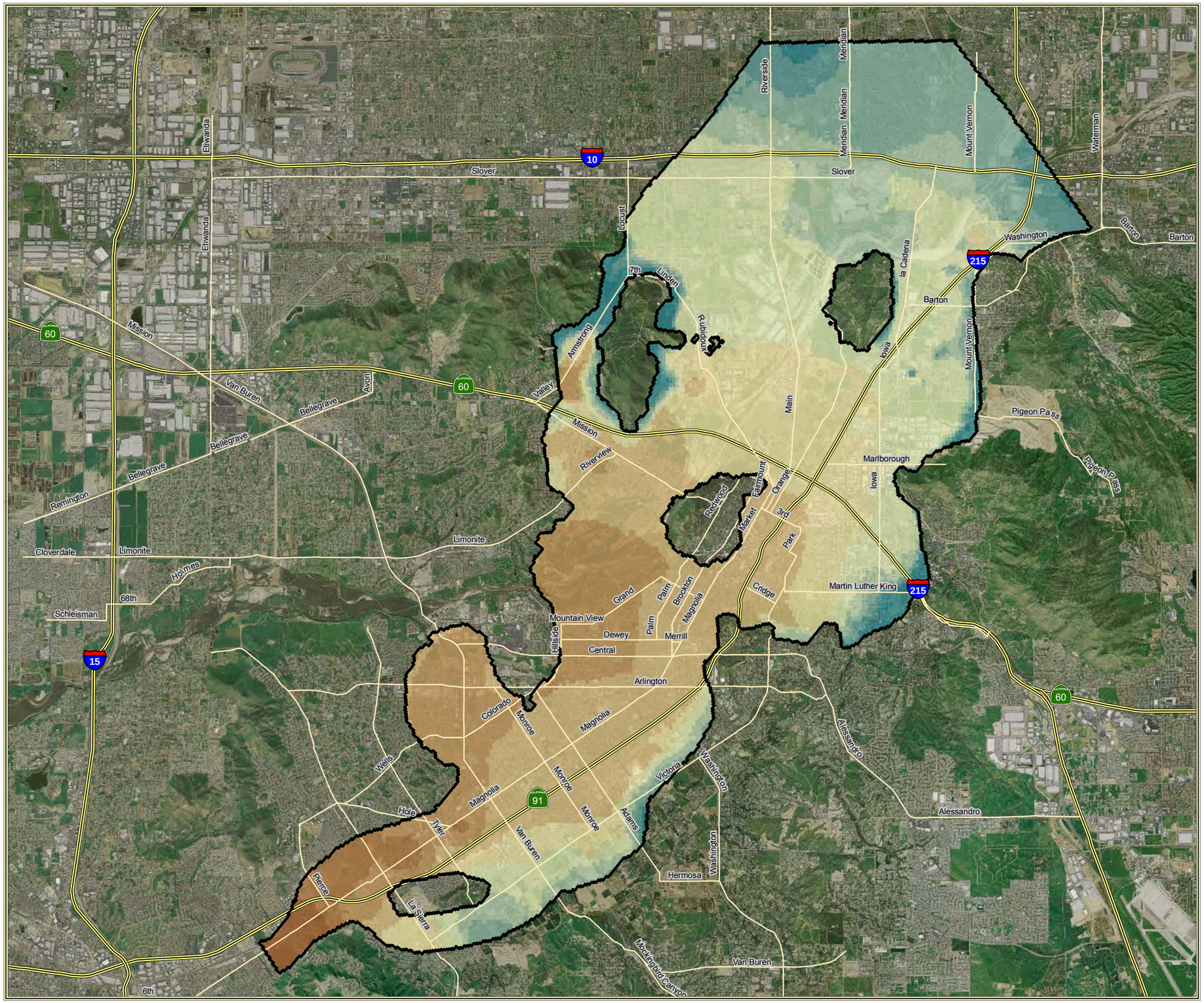


Santa Ana River Annual Inflows and Outflow, (AFY)

(Inflow is the sum of streamflows measured at USGS gages at Lytle Cr, Warm Cr, and E St. Outflow is measured at MWD Crossing.)

Figure 12
April 2010

Figure 13
Initial Model Groundwater Elevations



Legend

- Highway
- Roads
- Model Boundary

Groundwater Elevation

- 650 - 680
- 681 - 710
- 711 - 740
- 741 - 770
- 771 - 800
- 801 - 830
- 831 - 860
- 861 - 890
- 891 - 920
- 921+

CITY OF RIVERSIDE

WESTERN MUNICIPAL WATER DISTRICT

WRIME Water Resources & Information Management Engineering, Inc.

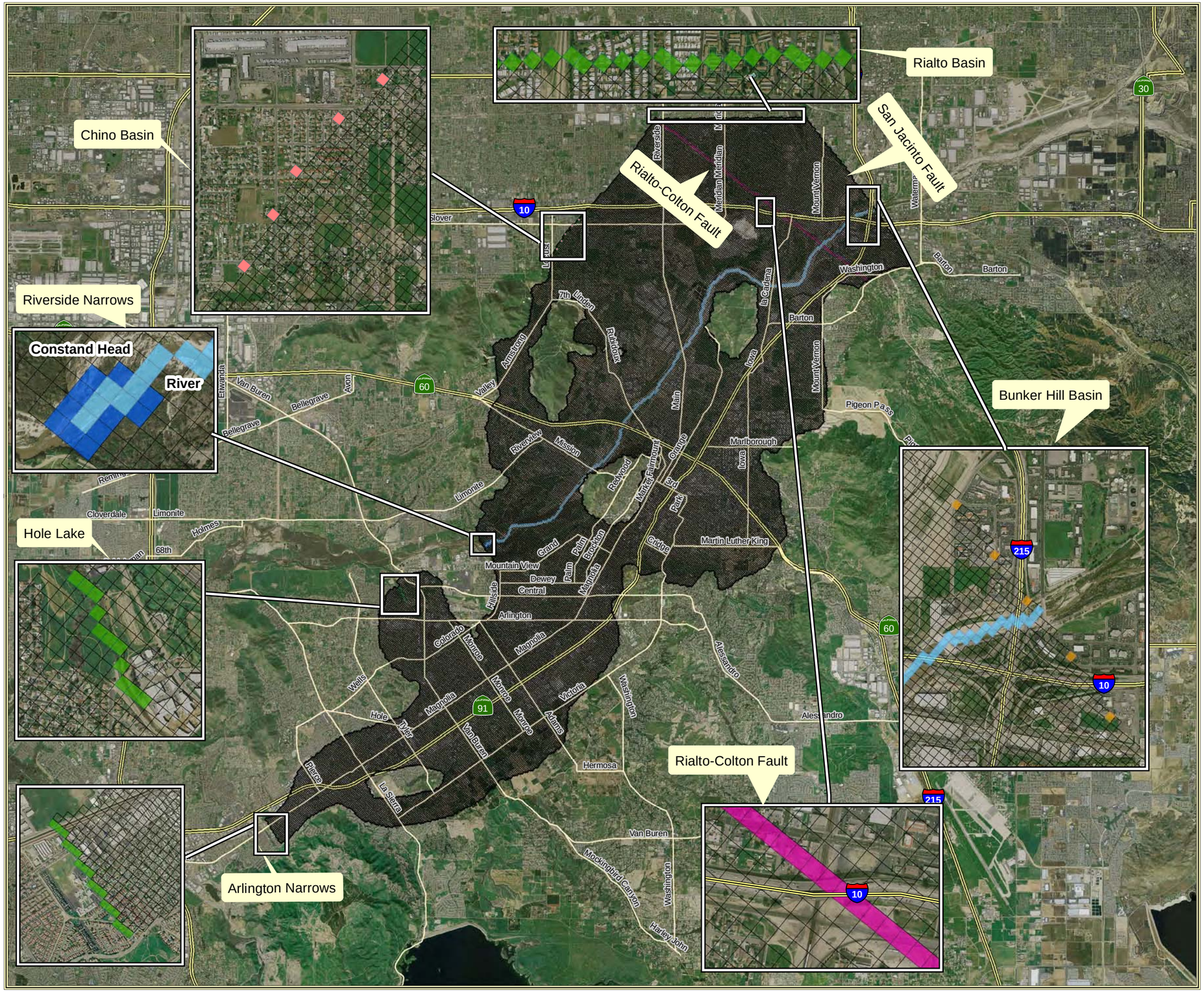
N
W E
S

0 0.5 1 2 3 4 Miles

Data Sources

•Groundwater Elevations Developed from Spring 1965 Water Level Data

Figure 14
Boundary Conditions



Legend

- Highway
- Roads

Boundary Condition Type

- Model Grid - Active Cells
- Constant Head
- General Head
- Horizontal Flow Barrier
- Injection Wells
- River
- Extraction Wells

CITY OF RIVERSIDE

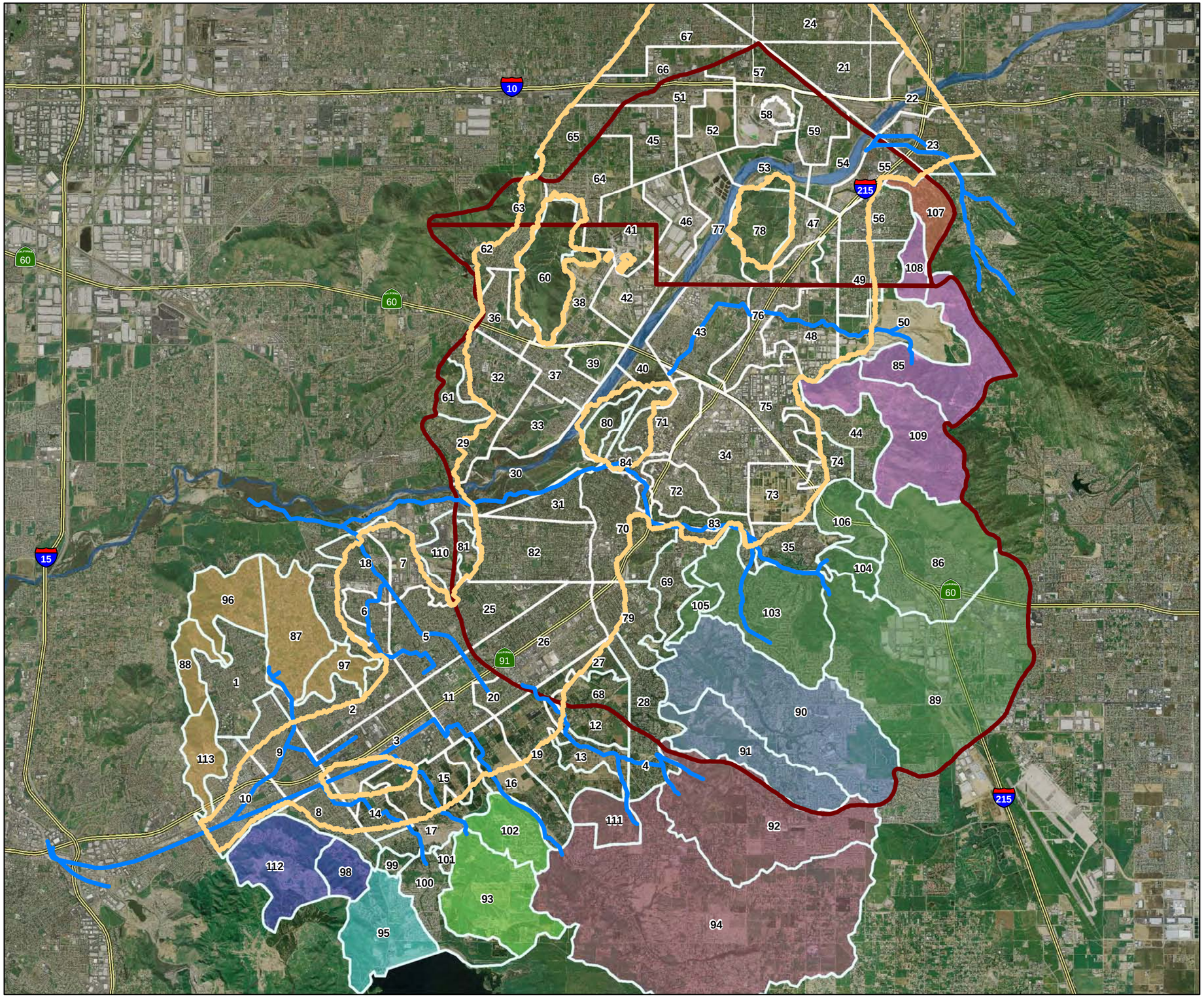
WESTERN MUNICIPAL WATER DISTRICT

WRIME Water Resources & Information Management Engineering, Inc.

N
W E
S

0 0.5 1 2 3 4 Miles

Figure 15
Subregions and Small Watersheds



Legend

- Highway
- 1969 Judgment Boundaries
- Active Model Cells
- Subregions
- Santa Ana River
- Small Watersheds
- Stream and Flood Control Structure

CITY OF RIVERSIDE

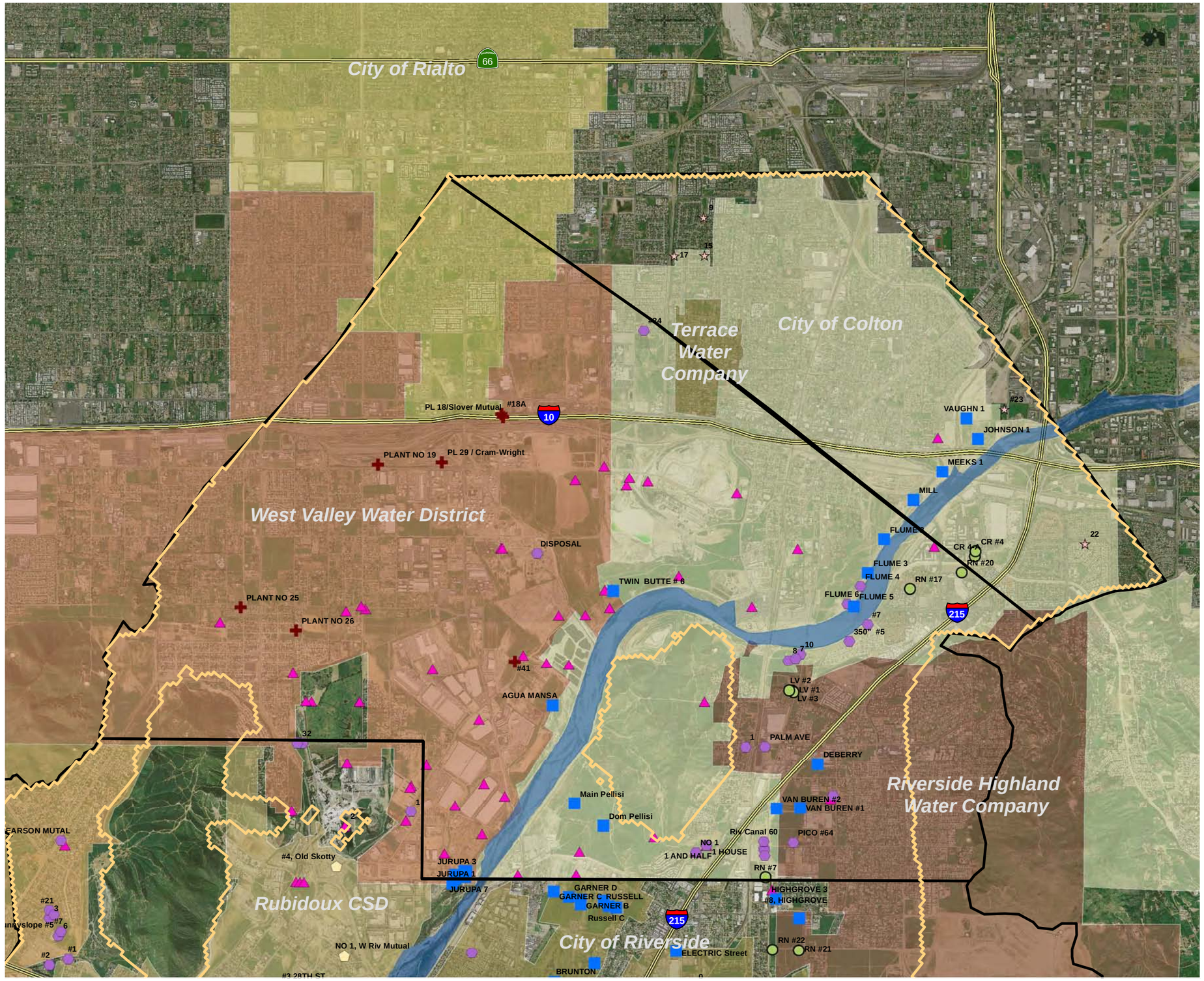
WESTERN MUNICIPAL WATER DISTRICT

WRIME Water Resources & Information Management Engineering, Inc.

N
W E
S

0 0.5 1 2 3 4 Miles

Figure 16
Groundwater Extraction Wells
Riverside North Basin
Rialto-Colton Basin



Legend

- Highway
- Active Model Cells
- Model Boundary
- Santa Ana River

Model Area Wells by Agency

- City of Colton
- Private Pumpers
- Riverside Highland
- City of Riverside
- Rubidoux CSD
- Water Agencies with Min. Pumping
- West Valley Water Dist.

Service Areas

- Colton
- Rialto
- RPU
- Jurupa
- Riverside Highland
- Rubidoux
- Terrace WC
- West Valley

CITY OF RIVERSIDE

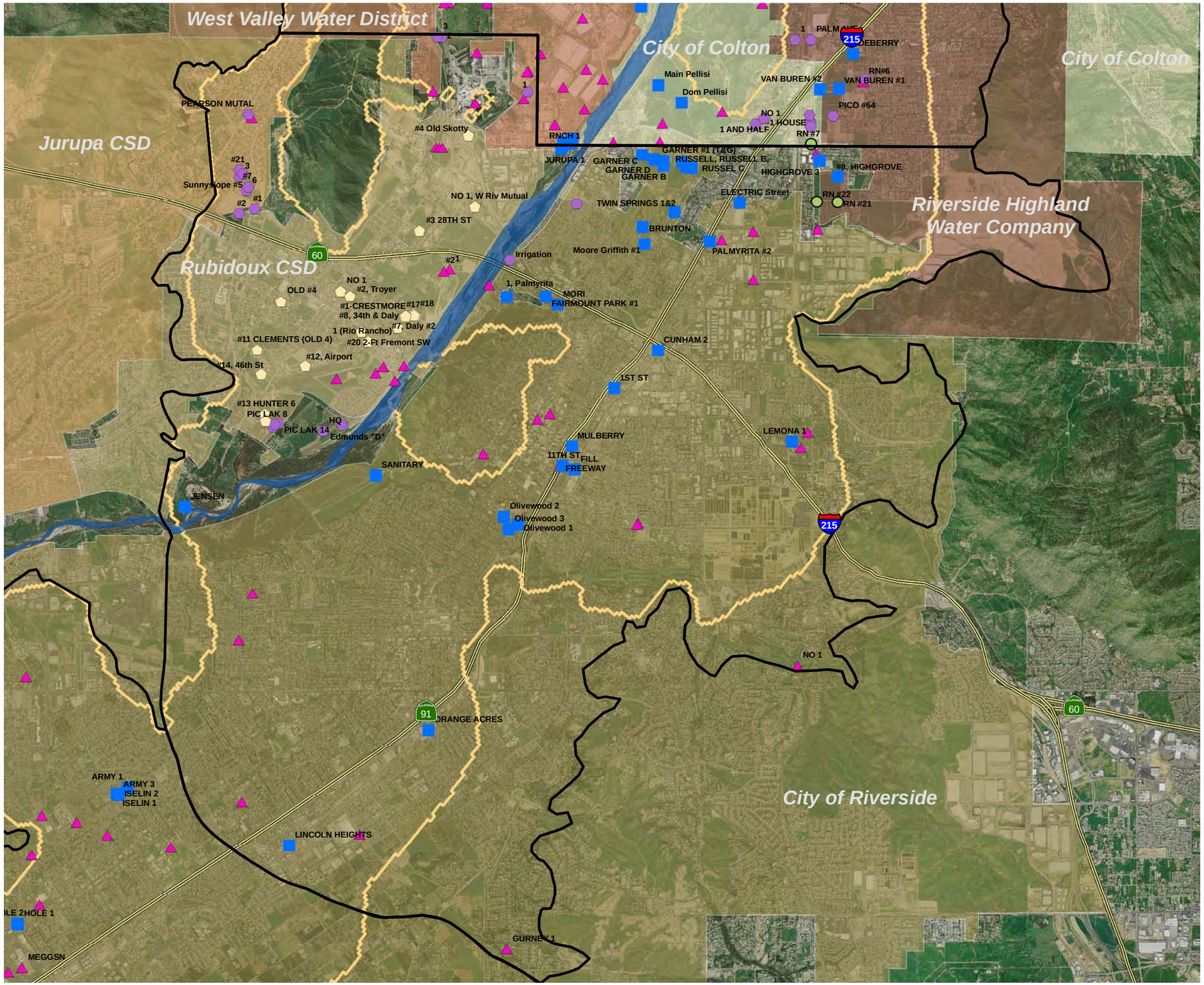
WESTERN MUNICIPAL WATER DISTRICT

RIME Water Resources & Information Management Engineering, Inc.

N
W E
S

0 0.25 0.5 1 1.5 2 Miles

Figure 17
Groundwater Extraction Wells
Riverside South Basin



Legend

- Highway
- Active Model Cells
- Model Boundary
- Santa Ana River

Model Area Wells by Agency

- Private Pumpers
- Riverside Highland
- City of Riverside
- Rubidoux CSD
- Water Agencies with Min. Pumping

Service Areas

- Colton
- RPU
- Jurupa
- Riverside Highland
- Rubidoux
- West Valley

CITY OF RIVERSIDE

WESTERN MUNICIPAL WATER DISTRICT

WRIME Water Resources & Information Management Engineering, Inc.

N
W E
S

0 0.25 0.5 1 1.5 2 Miles

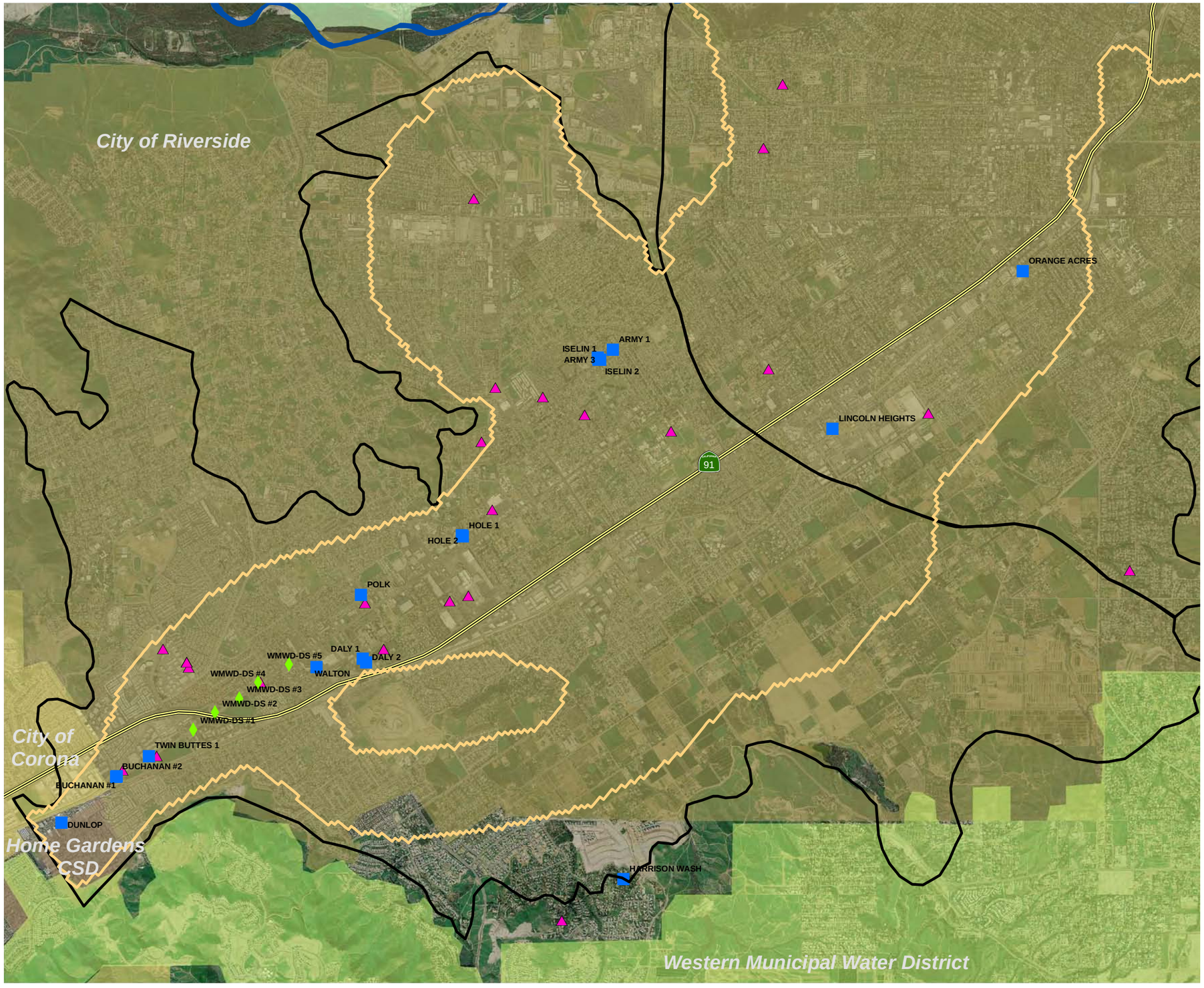


Figure 18
Model Well Locations
Arlington Basin

Legend

- Highway
- Active Model Cells
- Model Boundary
- Santa Ana River

Service Areas

- Corona
- RPU
- Home Gardens
- WMWD

Model Area Wells by Agency

- Private Pumpers
- City of Riverside
- Western Municipal Water Dist.

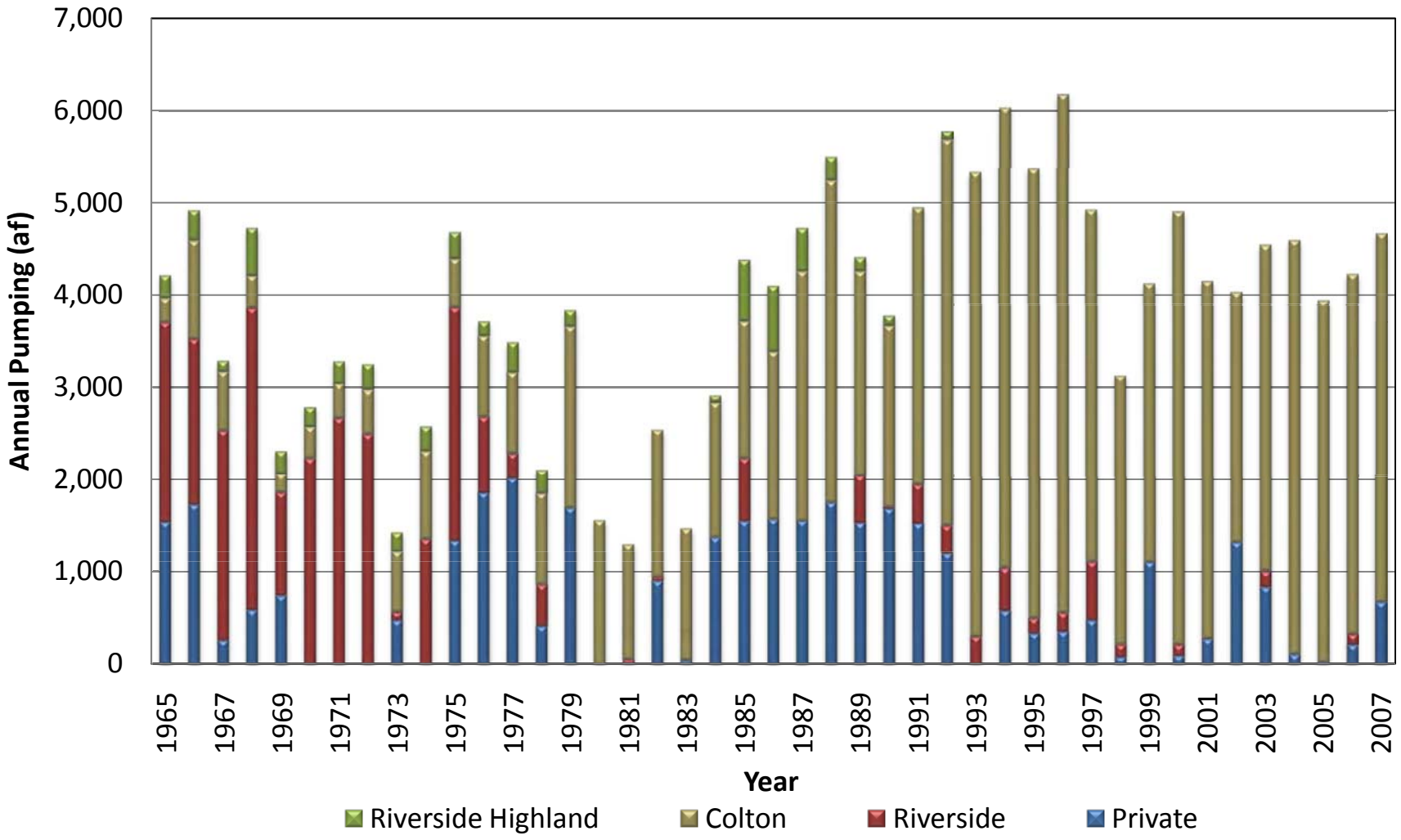
CITY OF RIVERSIDE

WESTERN MUNICIPAL WATER DISTRICT

RIME Water Resources & Information Management Engineering, Inc.

N
W E
S

0 0.25 0.5 1 Miles



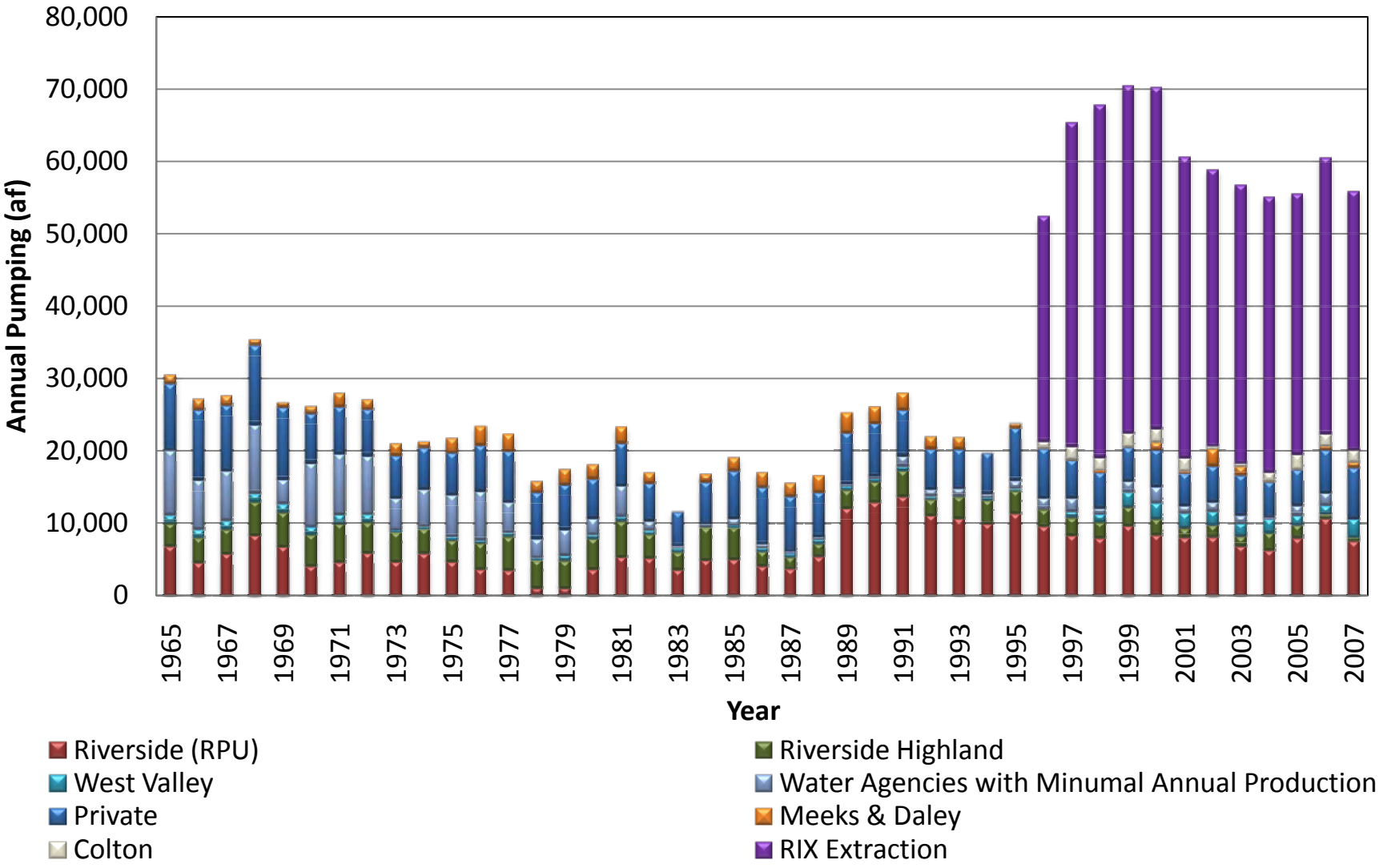
CITY OF RIVERSIDE

WESTERN MUNICIPAL WATER DISTRICT

Groundwater Production from Wells in Rialto Colton Basin

Figure 19
April 2010

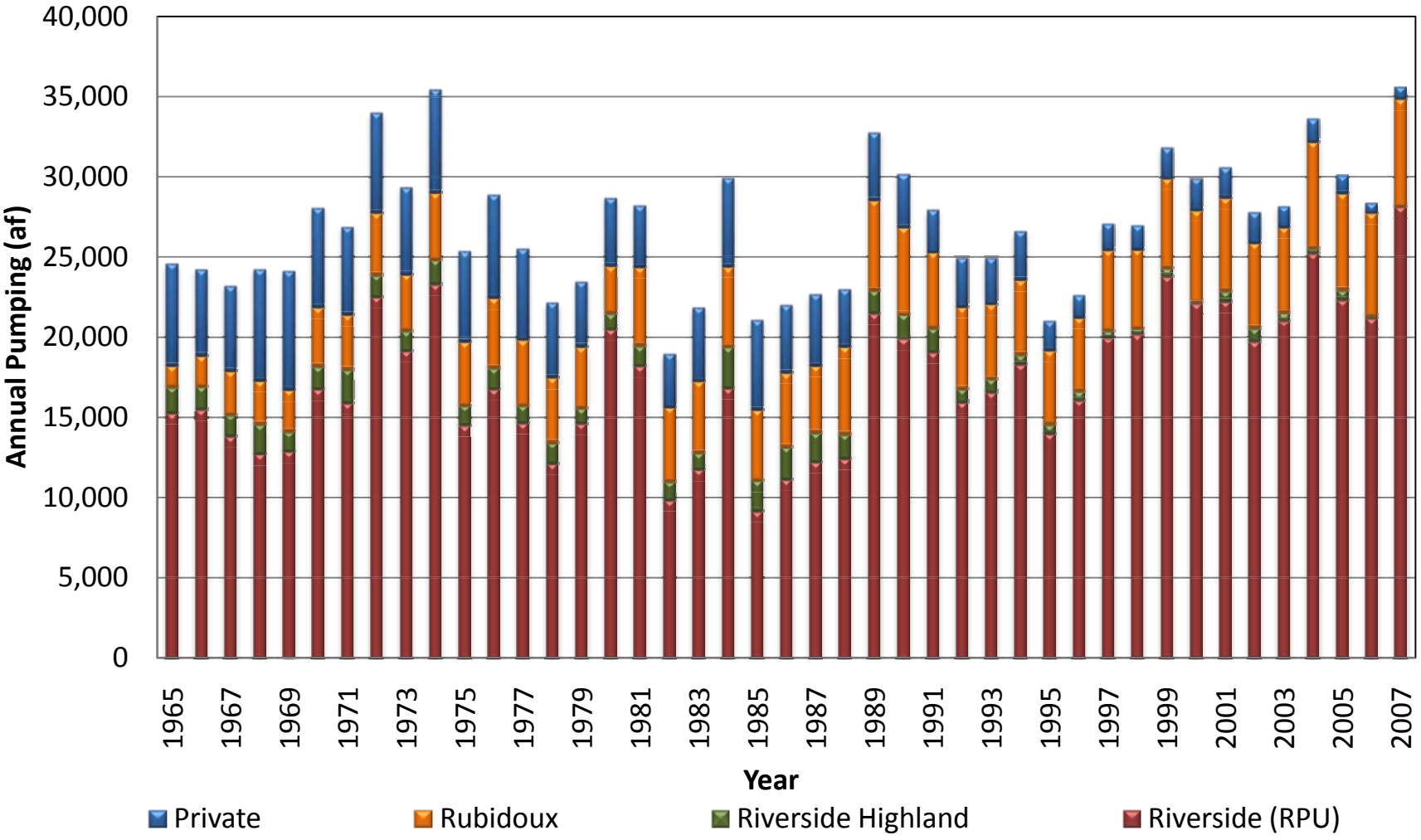
WRIME



Annual Groundwater Extraction from Wells in Riverside North Basin

Figure 20

April 2010



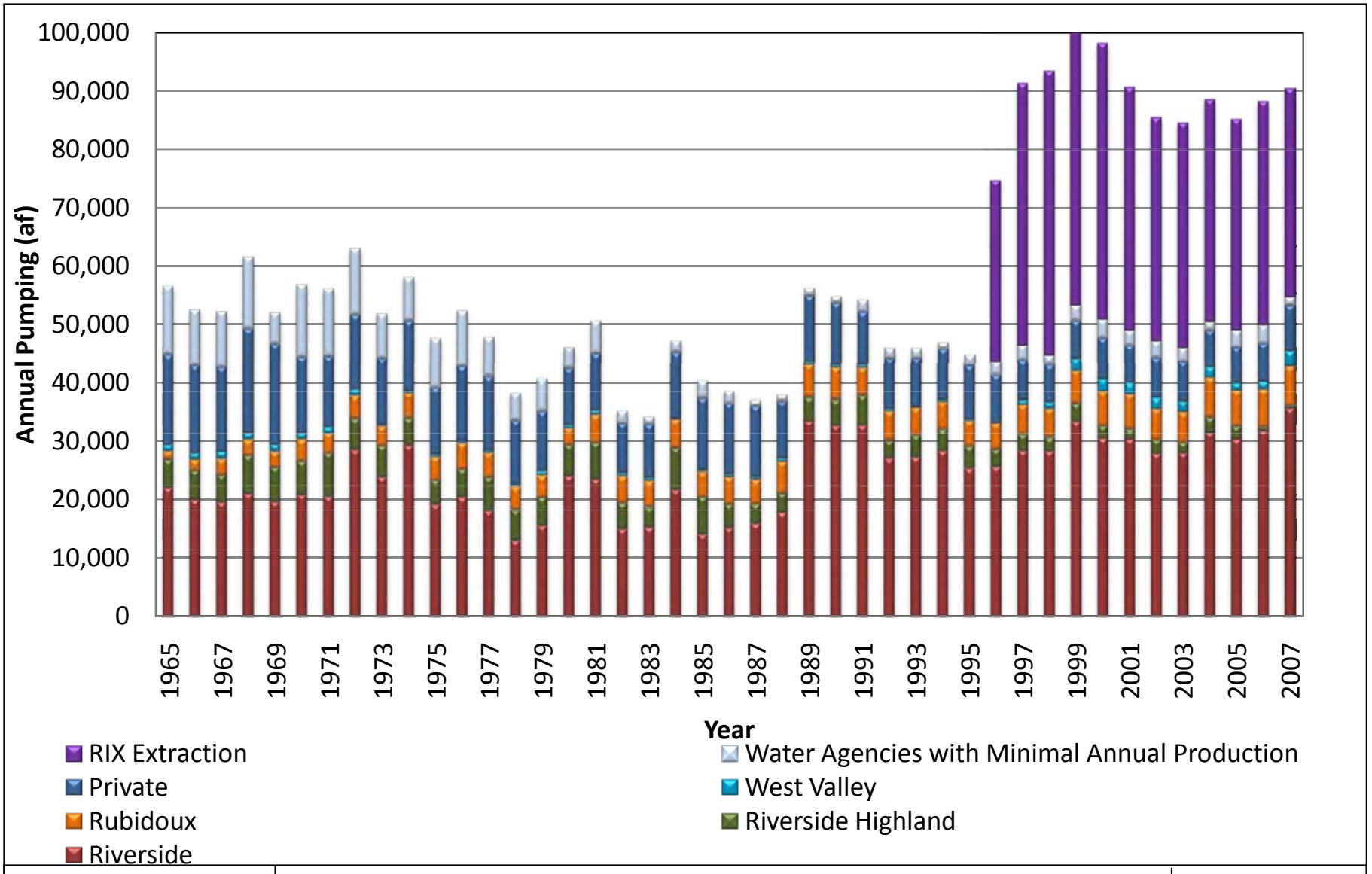
CITY OF RIVERSIDE

WESTERN MUNICIPAL WATER DISTRICT

Annual Groundwater Extraction from Wells in Riverside South Basin

Figure 21
April 2010

WRIME



CITY OF RIVERSIDE

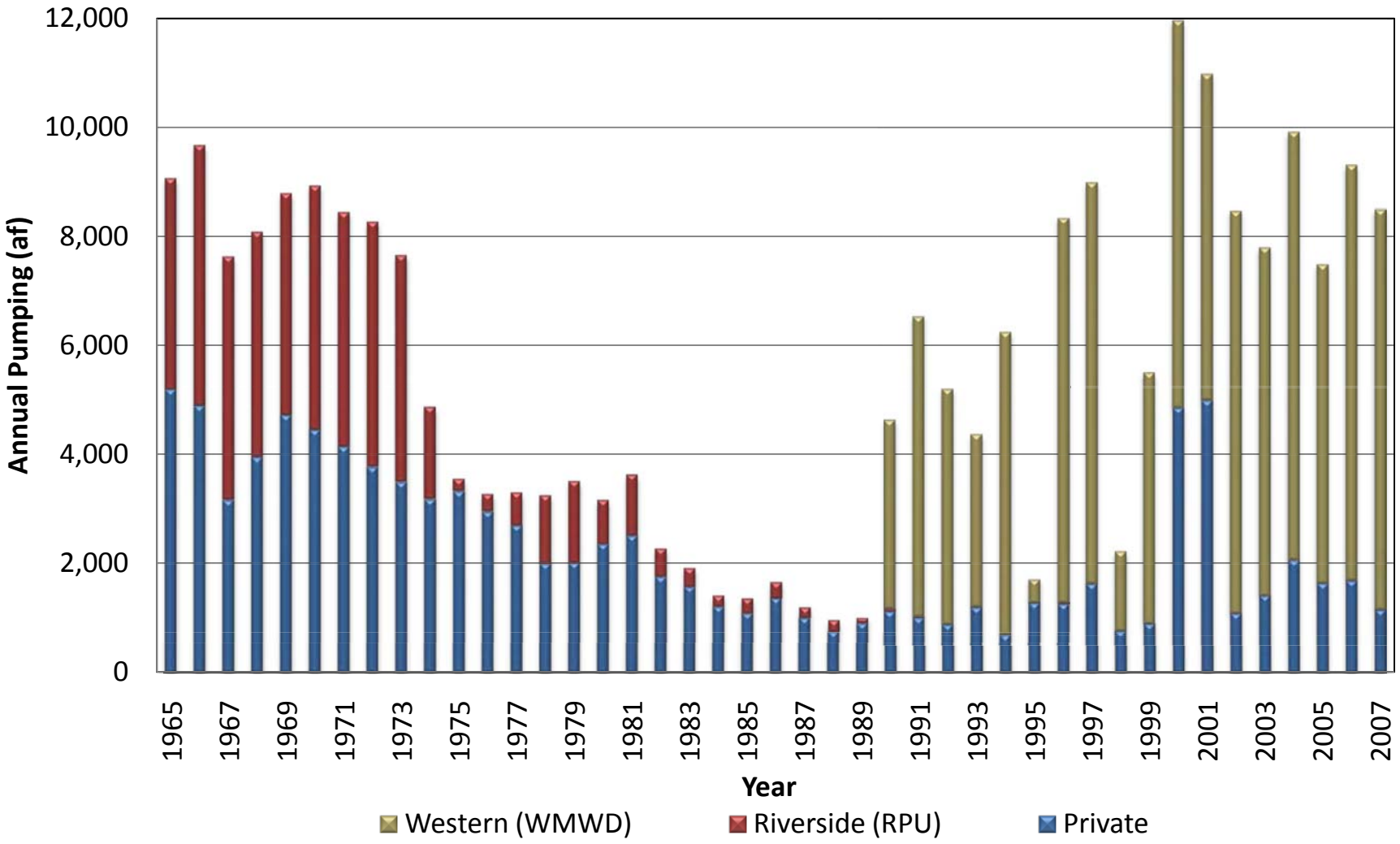
WESTERN MUNICIPAL WATER DISTRICT

Groundwater Production from Wells in Riverside Basin

Figure 22

April 2010

RIME



CITY OF RIVERSIDE

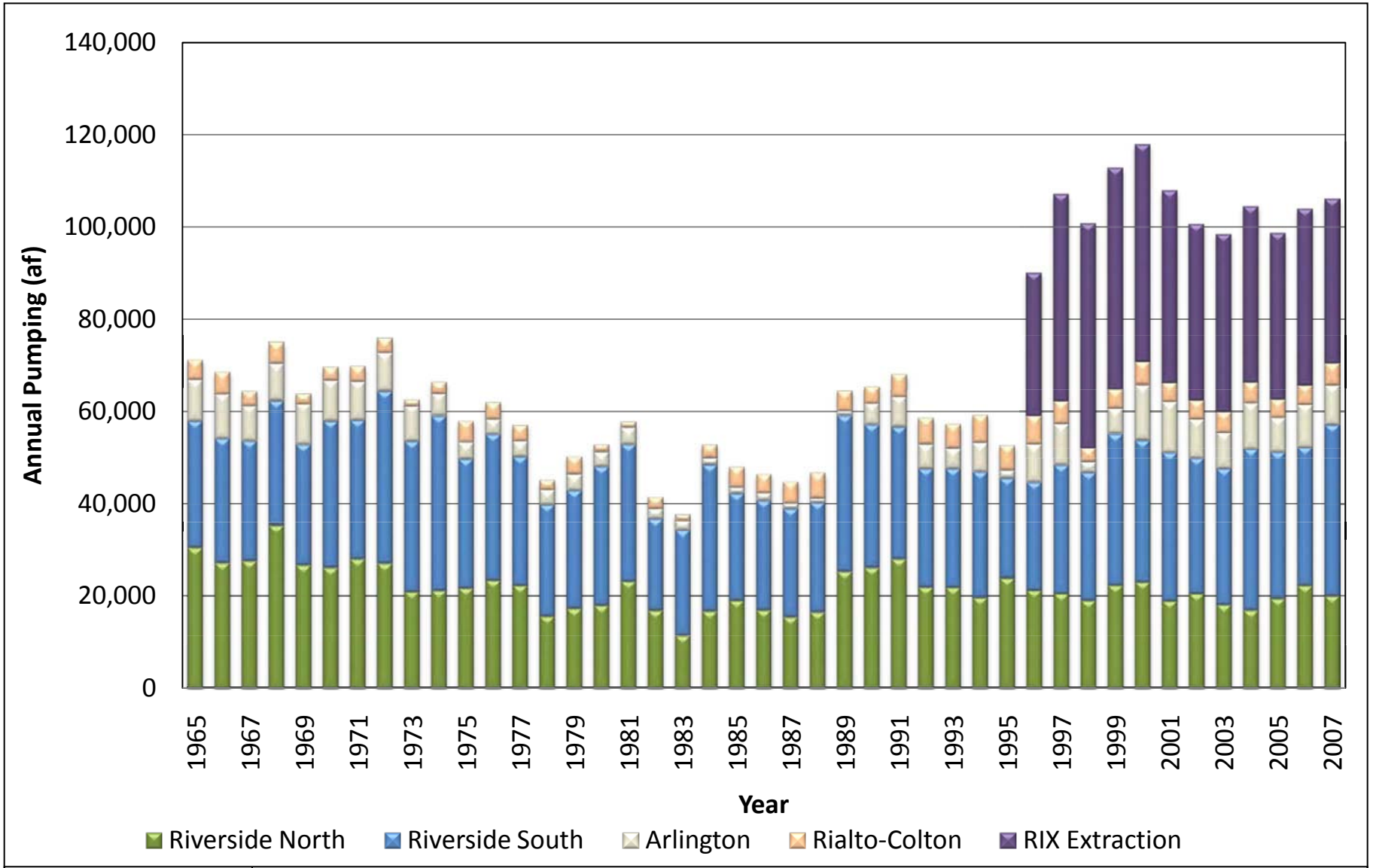
WESTERN MUNICIPAL WATER DISTRICT

Annual Groundwater Extraction from Wells in Arlington Basin

Figure 23

April 2010

RIME



Groundwater Production from Wells in Model Area

Figure 24

April 2010