

WRRC: “Arizona Runs on Water”

Gila River Indian Community: Innovative Solutions to Manage Multiple Water Resources



David H. DeJong, Ph.D.
Director, Pima-Maricopa Irrigation Project



Managing conjunctive water resources via managed aquifer recharge and utilization of groundwater.



P-MIP is being constructed on the shoulders of a 2,000 year history of irrigated agriculture in central Arizona



Arizona Water Settlements Act of 2004



An Act

Dec. 10, 2004
[S. 437]

To provide for adjustments to the Central Arizona Project in Arizona, to authorize the Gila River Indian Community water rights settlement, to reauthorize and amend the Southern Arizona Water Rights Settlement Act of 1982, and for other purposes.

Arizona Water Settlements Act.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

43 USC 1501 note.

(a) SHORT TITLE.—This Act may be cited as the “Arizona Water Settlements Act”.

(b) TABLE OF CONTENTS.—The table of contents of this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Definitions.
- Sec. 3. Arbitration.
- Sec. 4. Antideficiency.

TITLE I—CENTRAL ARIZONA PROJECT SETTLEMENT

- Sec. 101. Short title.
- Sec. 102. Findings.
- Sec. 103. General permissible uses of the Central Arizona Project.
- Sec. 104. Allocation of Central Arizona Project water.
- Sec. 105. Firming of Central Arizona Project Indian water.
- Sec. 106. Acquisition of agricultural priority water.
- Sec. 107. Lower Colorado River Basin Development Fund.
- Sec. 108. Effect.
- Sec. 109. Repeal.
- Sec. 110. Authorization of appropriations.
- Sec. 111. Repeal on failure of enforceability date under title II.

TITLE II—GILA RIVER INDIAN COMMUNITY WATER RIGHTS SETTLEMENT

- Sec. 201. Short title.
- Sec. 202. Purposes.
- Sec. 203. Approval of the Gila River Indian Community Water Rights Settlement Agreement.
- Sec. 204. Water rights.
- Sec. 205. Community water delivery contract amendments.
- Sec. 206. Satisfaction of claims.
- Sec. 207. Waiver and release of claims.
- Sec. 208. Gila River Indian Community Water OM&R Trust Fund.
- Sec. 209. Subsidence remediation program.
- Sec. 210. After-acquired trust land.
- Sec. 211. Reduction of water rights.
- Sec. 212. New Mexico Unit of the Central Arizona Project.
- Sec. 213. Miscellaneous provisions.

Tom Davis
Speaker of the House of Representatives pro tempore.

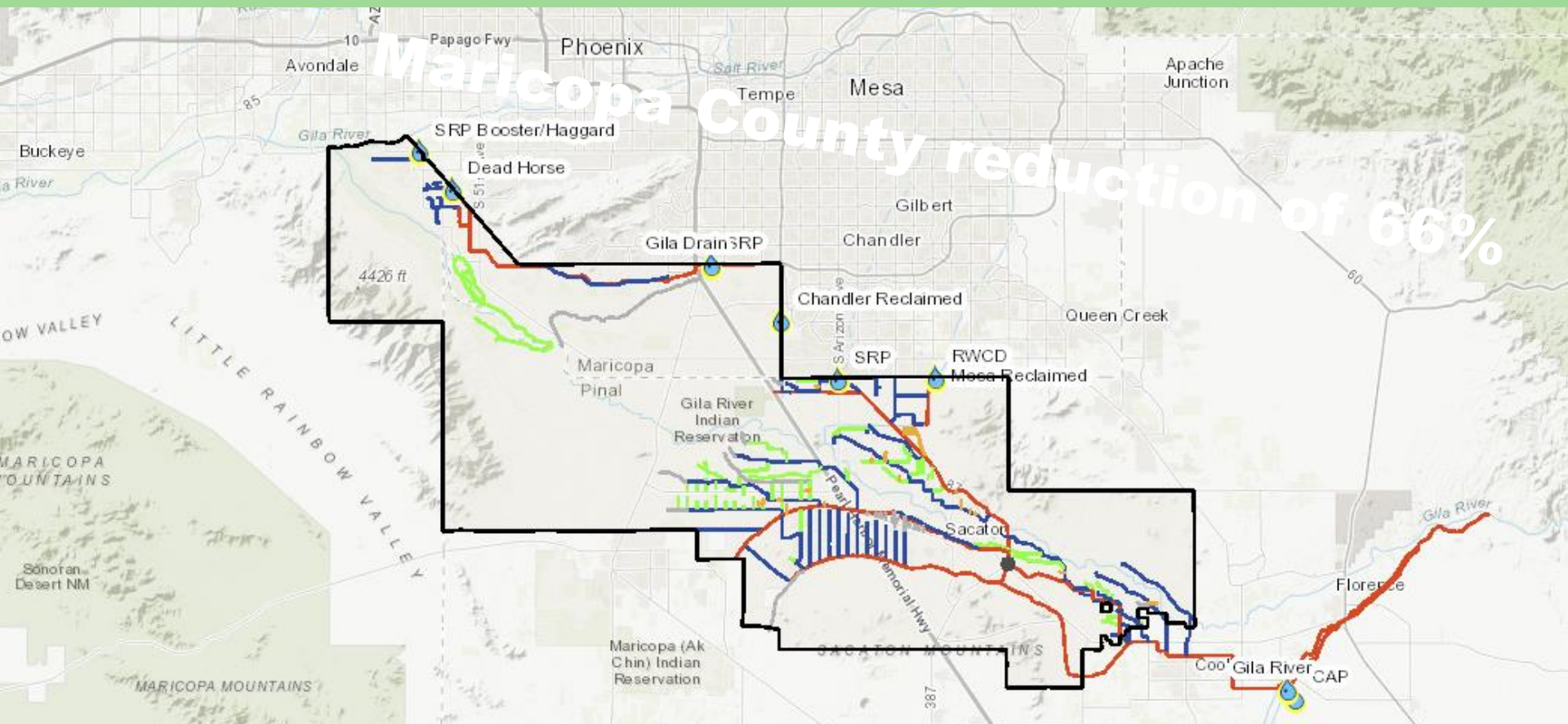
Theodore Stevens
Vice President of the United States and President of the Senate. pro tempore.

APPROVED
DEC 10 2004

[Handwritten signature]



Declining agricultural production in central Arizona

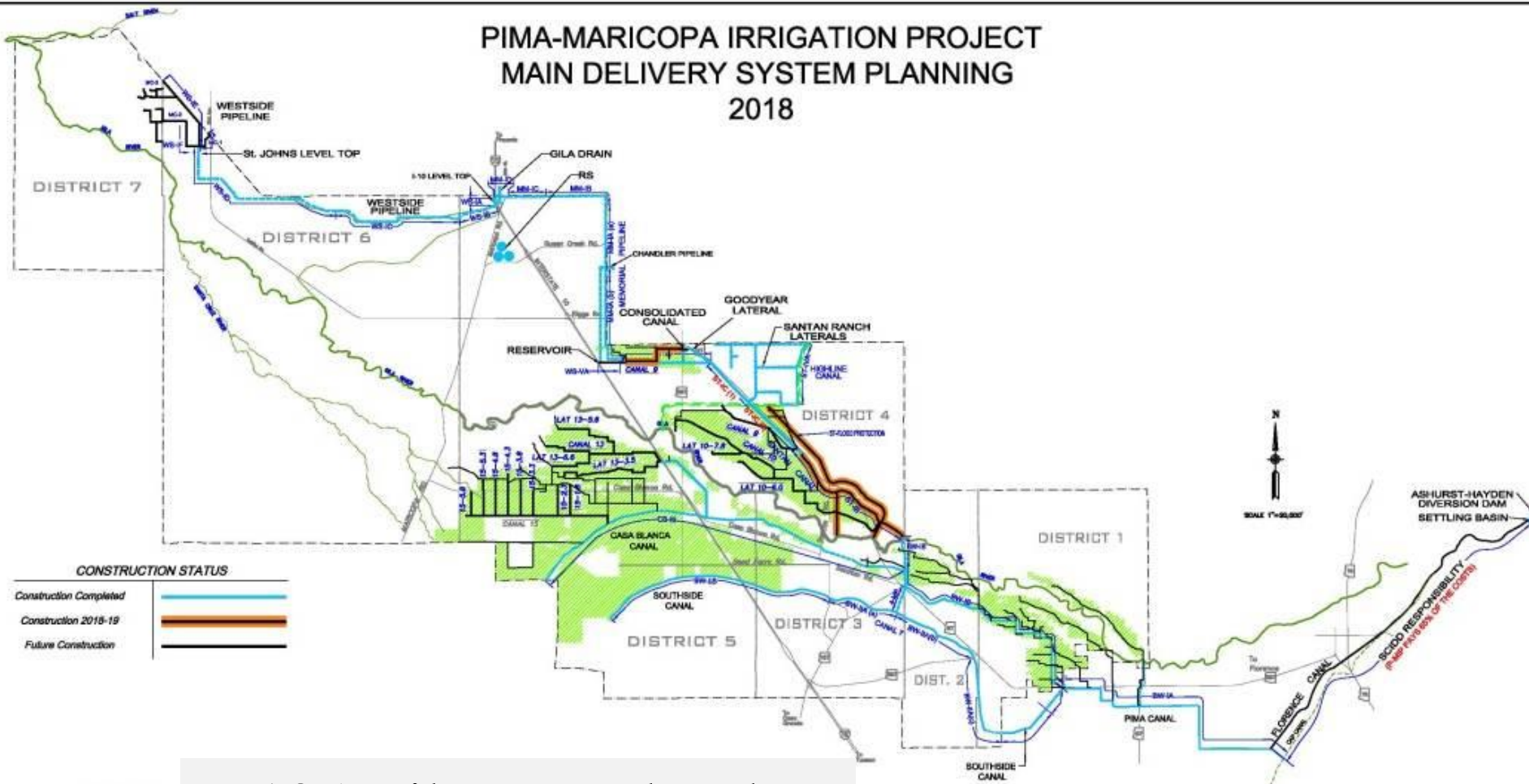


| County | Acres 1982 | Acres 2012 | Decline | Percent Drop |
|----------|------------|------------|-----------|--------------|
| Maricopa | 1,429,539 | 475,898 | 953,641 | 66.7% |
| Pinal | 2,403,901 | 1,174,727 | 1,229,174 | 51.1% |

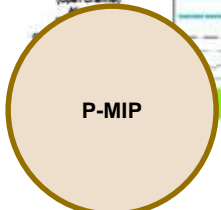


The Pima-Maricopa Irrigation Project

PIMA-MARICOPA IRRIGATION PROJECT MAIN DELIVERY SYSTEM PLANNING 2018



- 135 miles completed
- 150 miles remaining



System improvements from this ...



P-MIP



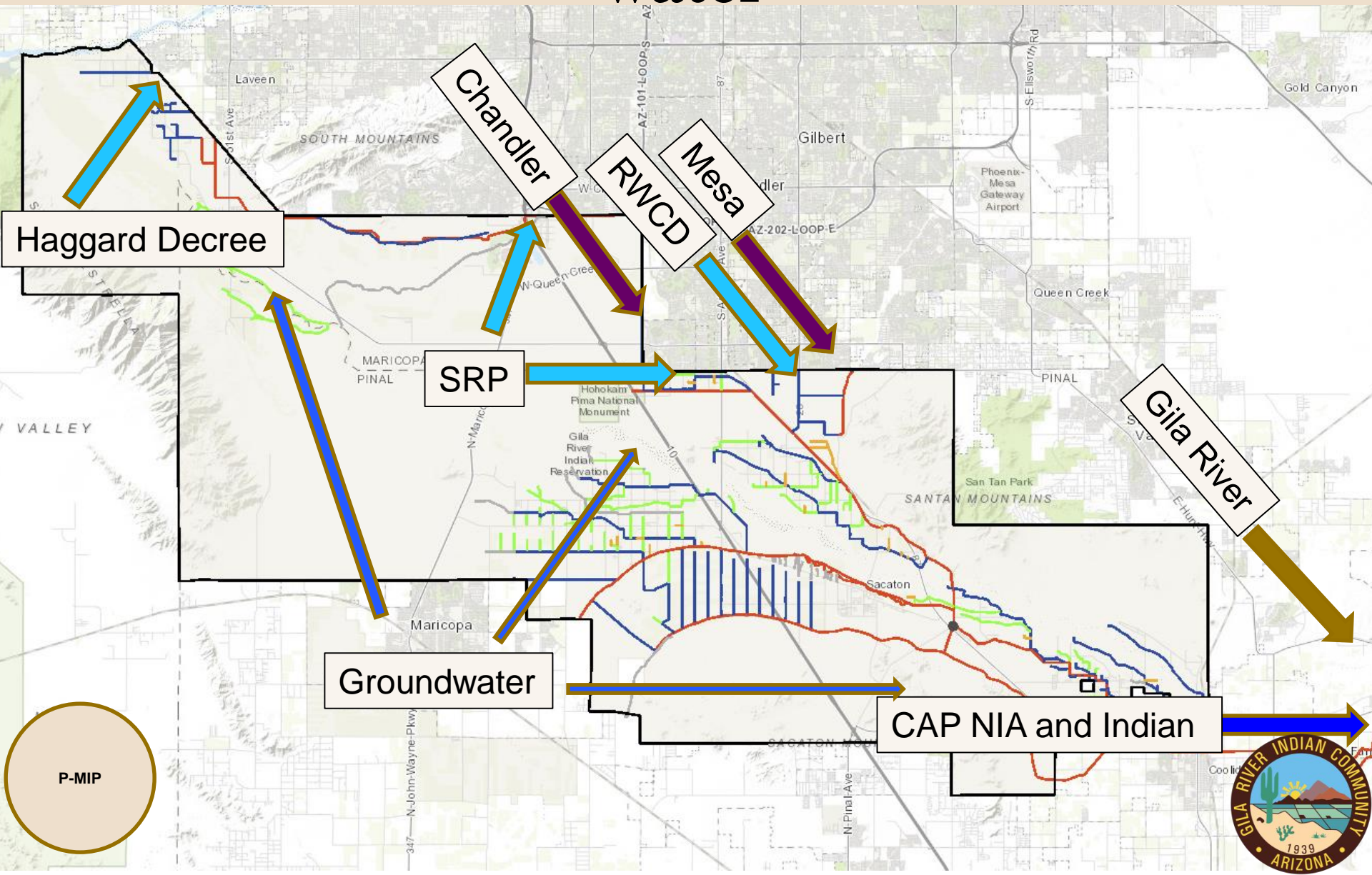


P-MIP

To a start-of-art system



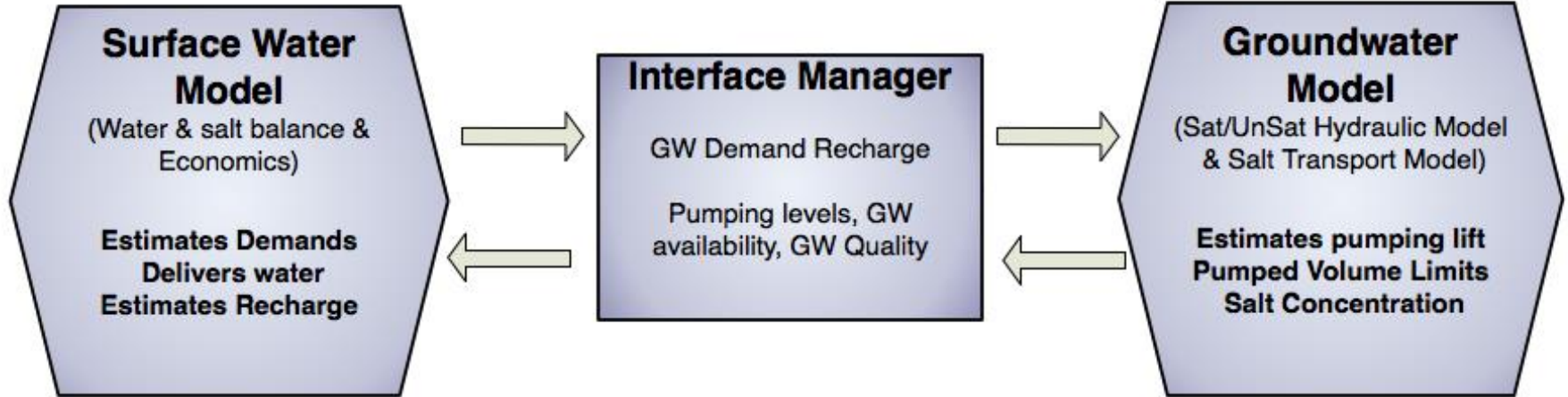
The Community has nine discrete sources of water



Water Resources include

- Nine different sources of water with varying:
 - costs
 - quantity
 - quality
 - reliability
- Geographical delivery restrictions
- How to balance groundwater demands

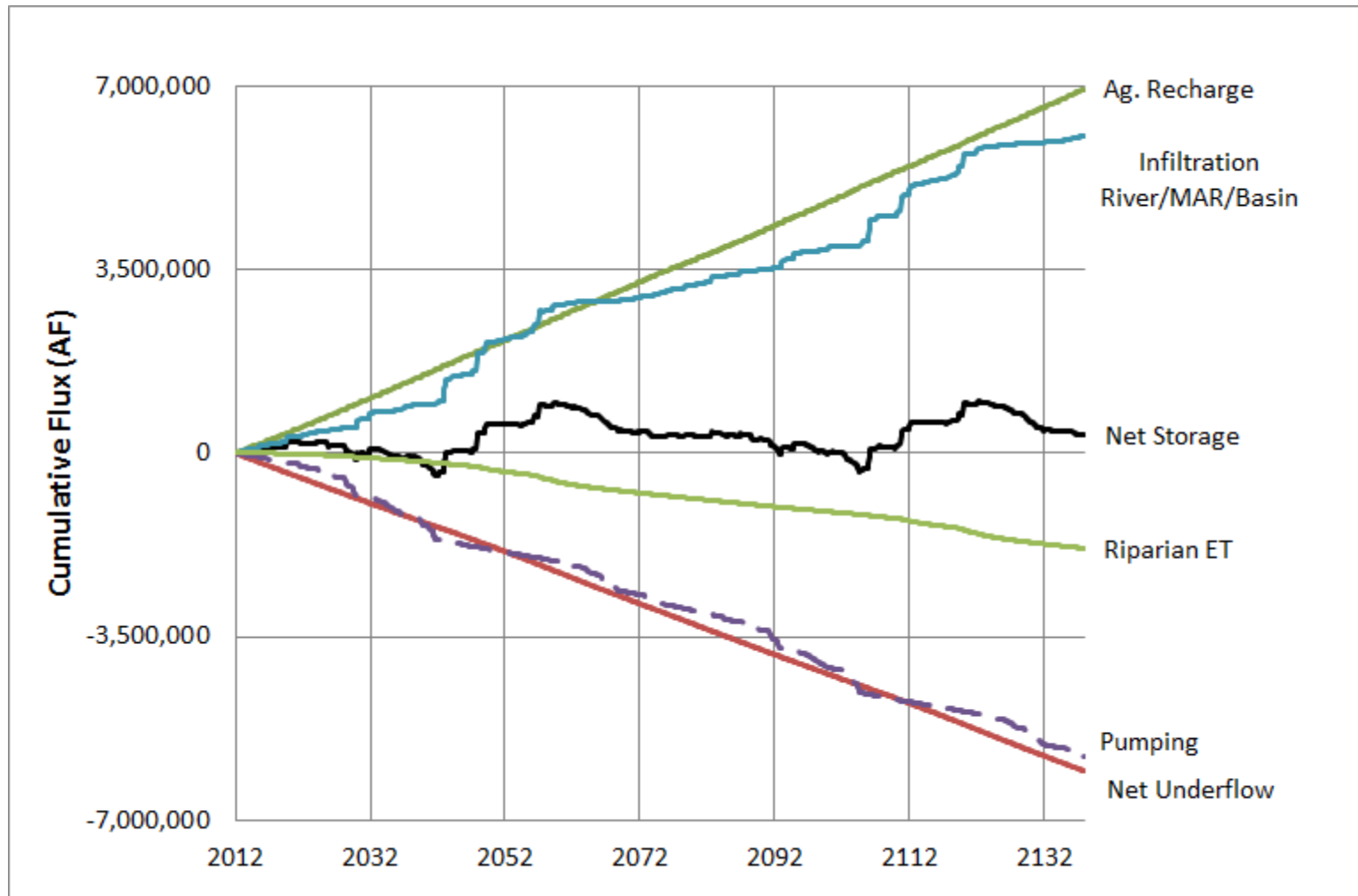
Comprehensive Water Management Plan



Goal

Protect the quantity and quality of Community land and water resources to ensure sustainable utilization for future generations via strategic groundwater recharge and utilization.

Long term Groundwater Balance



Olberg Dam Underground Storage Facility

January 1, 2015 (before introduction of water)



MAR



First Water August 2015



MAR



Over 25,000 AF stored since 2015



MAR



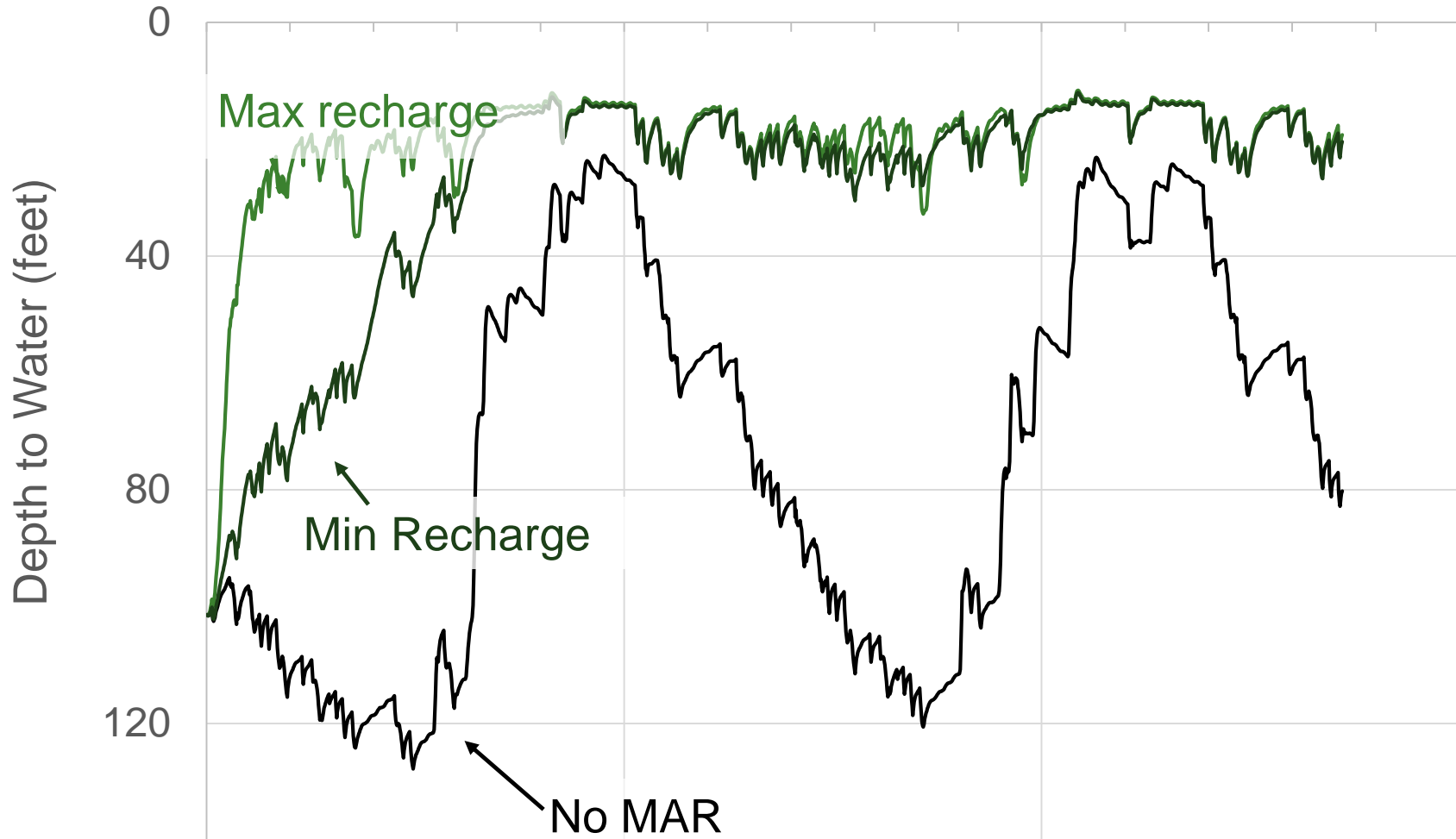
The second MAR site



MAR



MAR to protect groundwater



Simulated Hydrograph

