



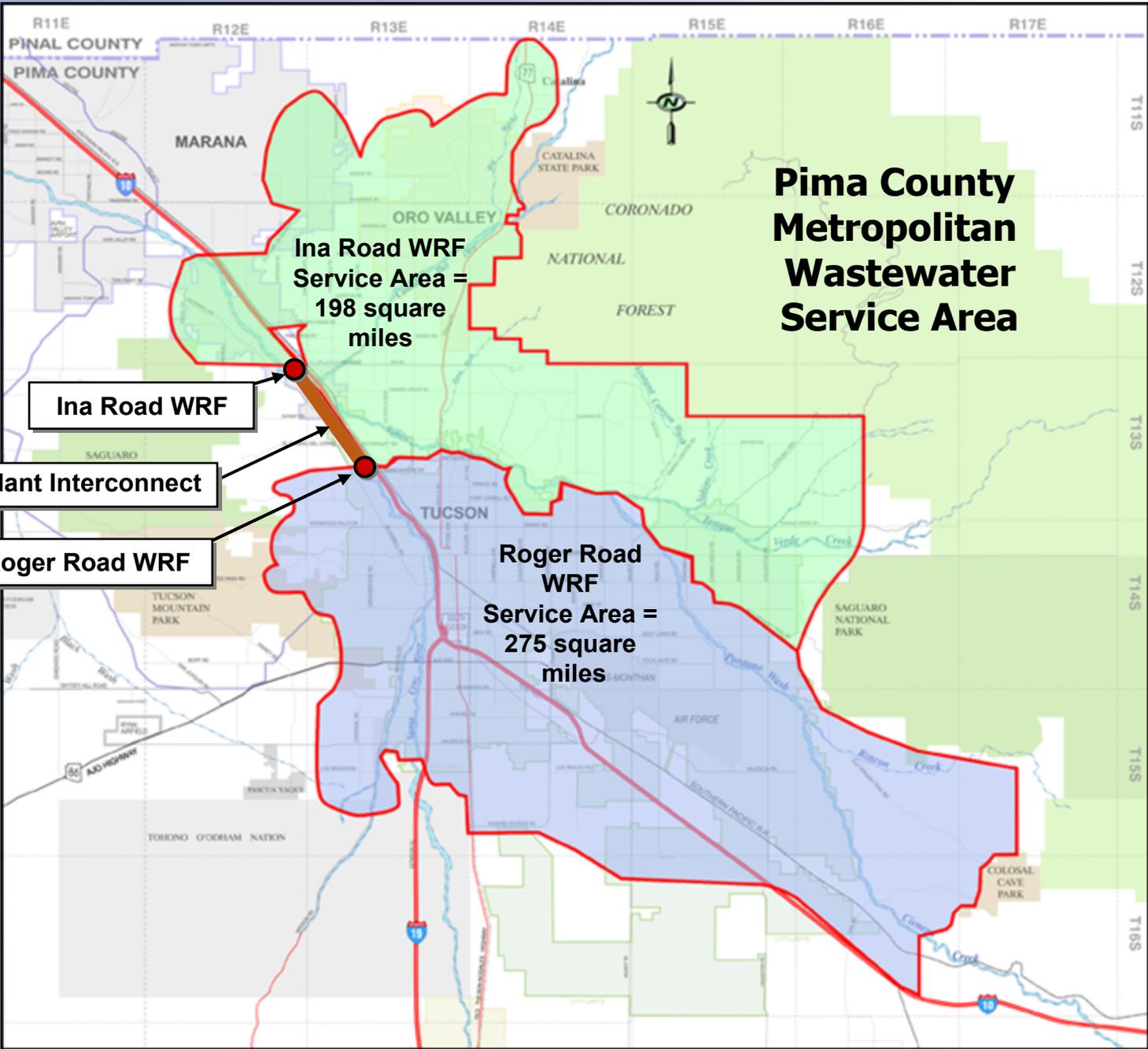
**Pima County Regional
Wastewater Reclamation Department**

STIMULUS DRIVEN OPPORTUNITIES

Plant Interconnect Project



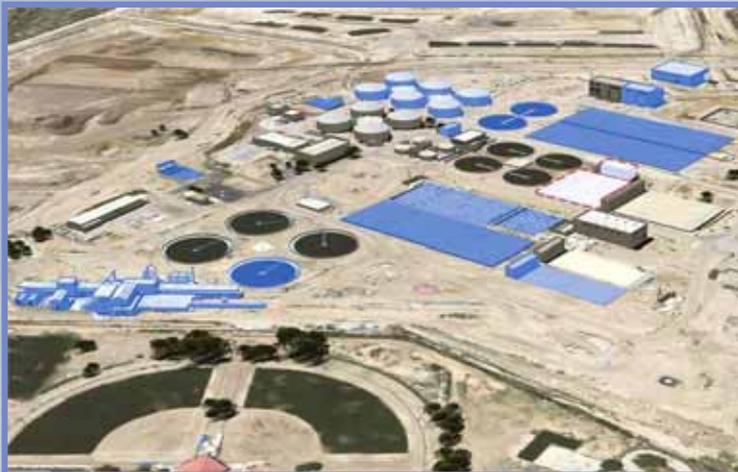
October 2009



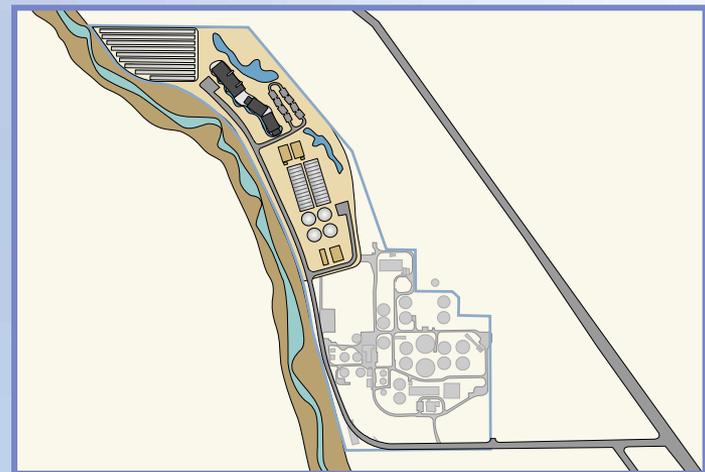
ROMP Plan at a Glance

- ✓ **Expand Ina Road WRF to 50 mgd (from 37.5 mgd)**
- ✓ **Construct new 32 mgd Water Reclamation Campus (in vicinity of existing Roger Road WRF)**
- ✓ **Plant Interconnect – 36 mgd average, 81 mgd peak flow**
- ✓ **Good neighbor facilities**
- ✓ **Decommission existing 41 mgd Roger Road WRF**
- ✓ **Meet growth needs to year 2030**

Total ROMP Project Budget: \$720 million



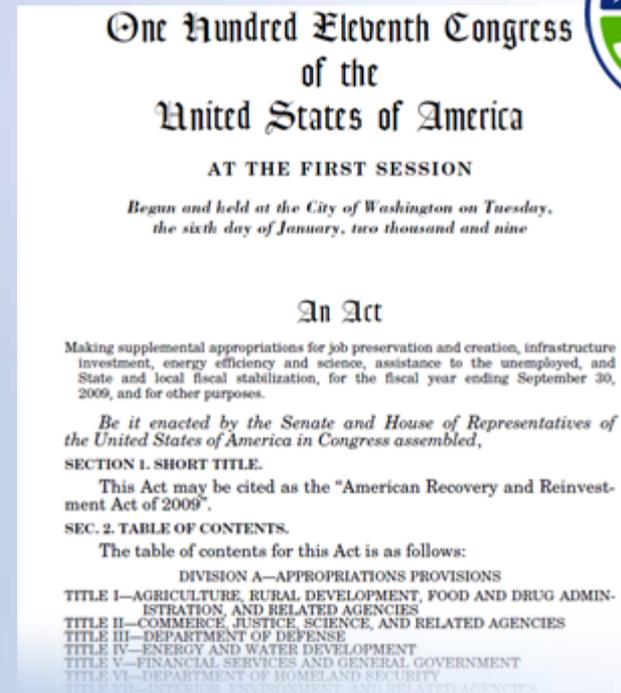
Ina Road WRF Expansion



32 mgd Water Reclamation Campus

Pima County Involvement in the American Recovery and Reinvestment Act

- Washington D.C. consultant and Pima County lobbyist tracked stimulus program development
- Pima County inquired to Water Infrastructure and Finance Authority (WIFA)
- WIFA Clarification Meetings
- Submission of shovel-ready and near-term projects
- WIFA use of applicant Bond Authorization
- Presentation to WIFA on Plant Interconnect Project
- WIFA Board approval of Plant Interconnect Project on April 15, 2009



ROMP Plant Interconnect

- **Five miles of 60" to 72" line connecting two metropolitan treatment plants**
- **Flow management and capacity management between the treatment plants**
 - **36 mgd average, 81 mgd peak flow**
- **Solids transport to Ina Road Regional Solids Handling Center**



Plant Interconnect Special Considerations

1. INA ROAD WPCF connection to existing Headworks Junction
2. Existing 42" Water Transmission Main Crossing
3. Canada del Oro Wash Siphon Crossing
4. CPC Property-Realignment of Plant Interconnect
5. 8" Force Main from Canada del Oro to Orange Grove Road realignment



Odor Control Biofilter on Siphon ▲



▲ Construction of Force Main

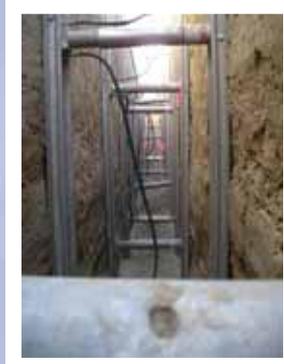


Construction of Junction Structure ▲



Plant Interconnect Special Considerations

- 6. Orange Grove Road Open Cut and Storm Drain Crossings
- 7. Double Barrel Drainage Structure and Slope Stabilization
- 8. Rillito River Siphon Crossing
- 9. W. Sunset Road – Open Cut ADOT ROW



▼ Slope Stabilization ▲

▼ Excavation for Siphon Structure



▼ Siphon Structure



Plant Interconnect Special Considerations

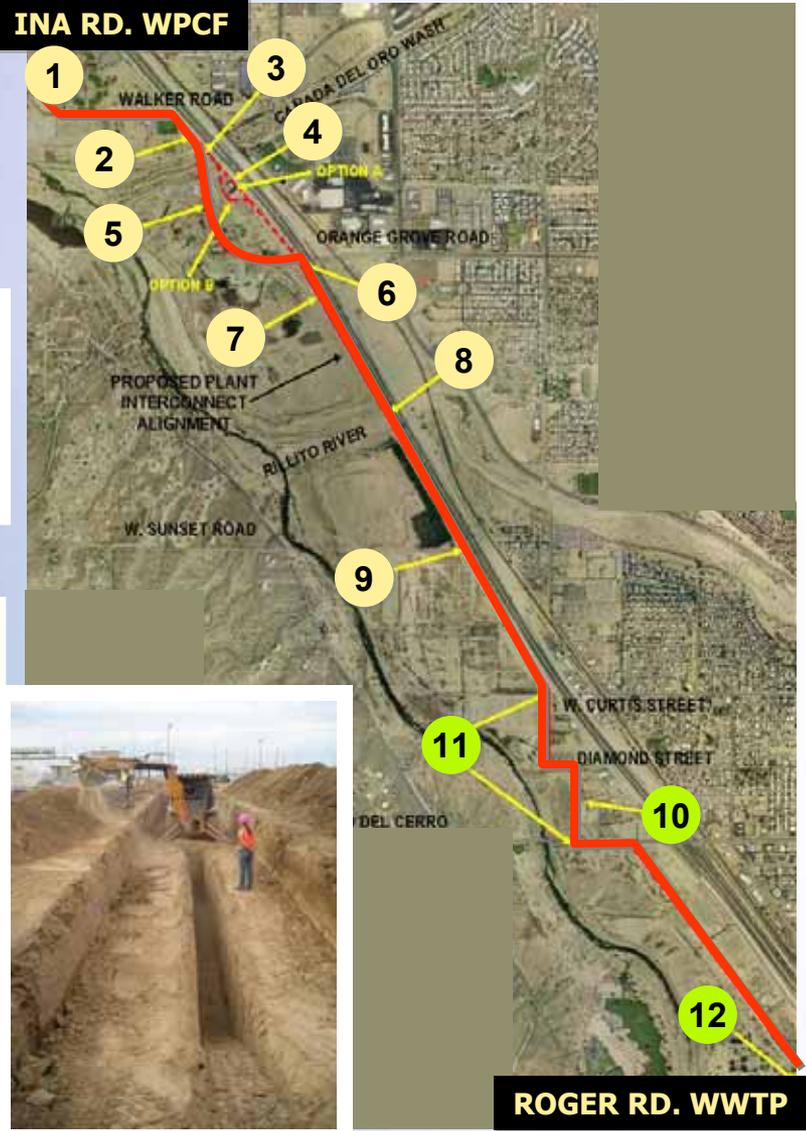
- 10. Diamond St. and Camino Del Cerro Landfill
- 11. Temporary Bypass of 8" SFM from ADOT ROW to El Camino Del Cerro
- 12. Roger Road Diversion Structure
- 13. R-O-W and Easement Acquisition (Not Numbered)



◀ Flow Management and Bypass Operations



Archeology Trenching in Easements ▶



ROGER RD. WWTP

Plant Interconnect Schedule

Key Milestones	
Design Notice to Proceed	September 2007
CMAR Notice to Proceed	November 2007
Subsurface Investigation Completed	August 2008
Design Completed	January 2009
Cultural Resources (SHPO) Clearance	April 2009
Real Property Acquisition completed	April 2009
Construction Notice to Proceed	April 2009
Pipe Material Delivery & Start of Construction	May 2009
Substantial Completion – Interconnect Operational	September 2010
Project Closeout	December 2010

Plant Interconnect Funding Sources

WIFA Loan	\$ 8,000,000
WIFA Loan/Principal Forgiveness	\$ 2,000,000
2004 Bond Authorization	\$ 11,804,674
2009 Bond Authorization	\$ 17,585,326
System Development Funds (cash)	\$ 1,800,000
Total Funding	\$ 41,190,000



WIFA

Water Infrastructure and Finance Authority

Date: April 15, 2009

Contact: Veronica Rivera, Communications Director: (602) 364-1236
WIFA Announces Stimulus Funds Part of \$10 Million Loan to Pima County for Wastewater System Improvements

PHOENIX (April 15, 2009) –The Water Infrastructure Finance Authority (WIFA) Arizona announced today approval of its first round of loans from federal stimulus money, including part of a \$10 million loan to the Pima County Regional Wastewater Reclamation Department for improvements to its wastewater system.

The project will help Pima County meet regulatory requirements for nitrogen levels in discharged wastewater. It includes upgrading and expanding the Ina Road wastewater facility; building a new water reclamation facility to replace the aging Roger Road site, which will be decommissioned; and building a connection between the two plants to optimize their capacity and flow.

ARRA Davis Bacon Act – Impact on Plant Interconnect Project Cost

- Wage impact estimated at \$35,370

Classification	Davis Bacon Rate
Laborer	\$ 10.32
Truck Driver	\$ 13.29
Equipment Operator	\$ 19.34
Equipment Operator 2	\$ 31.52
Electrician	\$ 28.90
Ironworker	\$ 41.71

ARRA “Buy American” Requirement – Impact on Plant Interconnect Project Cost

- **“Buy American” requirement does not appear to have a substantial impact on this project**
 - **Major items (polymer, DIP, fiberglass pipe material and manholes/structures) manufactured in the US**
- **A small allowance of \$20,000 has been set aside to account for any miscellaneous items that may need adjustment**
 - **Raw material purchase (steel rebar, concrete)**



ARRA Davis Bacon and "Buy American" – Combined Impact on Plant Interconnect Project Cost

- **Plant Interconnect Guaranteed Maximum Price (GMP)**
 - **GMP of \$25,197,275 awarded on March 10, 2009**
 - **Amended GMP of \$25,252,645 awarded for Davis Bacon and "Buy American" provisions**

Original GMP	\$ 25,197,275
Davis Bacon Wage Adjustment	\$ 35,370
"Buy American" Adjustment	\$ 20,000
Projected Amended GMP to Comply with ARRA	\$ 25,252,645

Cost Benefit of WIFA Funding

	Typical Public Sector Financing	WIFA Funding
Principal		
Principal Amount	\$ 10,000,000	\$ 8,000,000
Principal Forgiveness	\$ 0	\$ 2,000,000
Interest		
Financing Term	20 years	20 years
Interest Rate	4.08%	3.46%
Interest Charges*	\$ 4,292,100	\$ 2,909,760
Davis Bacon and "Buy American" Costs	\$ 0	\$ 55,370
Total Cost**	\$ 14,292,100	\$ 10,965,130

* Interest Savings with WIFA Funding: \$ 1,382,340

** Net Financial Benefit of WIFA Funding: \$ 3,326,970

Jobs Creation Resulting from the Plant Interconnect Project

	Estimated Jobs Created
Contractor, subs and suppliers:	140 - 160
Engineering and consultants:	30 - 40
Total jobs created:	170 - 200
Indirect jobs due to construction activities: (Food, shelter and other miscellaneous services in support of construction activities)	X 1.5 (1.5 multiplier)
Final estimate of new jobs created:	255 - 300

Conclusions



- **Coordination with WIFA staff was a professional and applicant-friendly process**
- **WIFA loan and Principal Forgiveness resulted in significant financial savings to the project (\$3,326,970)**
- **Project created more than 255 jobs**
- ***WIFA loan and Principal Forgiveness have been a success for Pima County***