



Southern Regional Office (SRO)
400 W. Congress, Suite 433, Tucson, AZ 85701

**FINAL Minutes of the
Shannon Road/El Camino del Cerro Water Quality Assurance Revolving Fund (WQARF)
Community Advisory Board (CAB) Meeting – 34th Meeting**

February 3, 2009, 6:00 p.m. - 7:30 p.m.
Ellie Towne Flowing Wells Community Center, Large Multi-Purpose Rooms #2 and #3,
1660 W. Ruthrauff Rd.,
Tucson, Arizona

CAB Members Present: Randy Abbey, Keith Adkins, Gary Burchard, Marty Drozdoff, Marc Herman, Terri Hutts, Bob Ornelas, Grant Parker, Ellie Towne, Kerry Xhaferi

CAB Members Absent: Al Pesqueira

ADEQ Staff Present: William Ellett, Superfund Programs Unit Supervisor; Sherri Zendri, Project Manager; Melissa Hayes, Community Involvement Coordinator

Members of the Public Present: Michael Block, Molly Collins, John Doncsecz, Brian Hayes, Terry Miley

The meeting began at 6:03 p.m.

1. Call to Order/Introductions

CAB co-chair, Randy Abbey, welcomed members and conducted introductions.

2. Approval of Minutes for 10/21/08 CAB Meeting

Ellie Towne motioned to approve the minutes from the October 21, 2008 CAB meeting; Kerry Xhaferi seconded the motion. All CAB members were in favor; none were opposed. Grant Parker later indicated that the section on the top of page four, "...had been stored had discarded" was unclear. Melissa Hayes said that she would clarify that section and provide a revised copy to the CAB.

3. Nomination/Election of CAB Co-Chairs for Next Term

Randy Abbey asked for nominations for co-chairs for the next term. Gary Burchard motioned to keep the current co-chairs (Randy Abbey and Marty Drozdoff) for the next term; Ellie Towne seconded the motion. Randy Abbey and Marty Drozdoff agreed to continue as co-chairs. The CAB voted. All CAB members were in favor; none were opposed.

4. Site Investigation Update/Q&A

Sherri Zendri showed the current site map. She said that groundwater samples were collected in October and January, and she reviewed the results from the October sampling (the results from the January sampling were not back yet). She said the groundwater sampling results and water levels had

not changed much from the last round. There was a possible error in the data table presented in that the TCE level for well 47 might be 4.7 instead of 47. She said that well 49 went from non-detect to 4.0 parts per billion of PCE, but she wants to check the January results to compare. She said that in essence, the plume is stable, which helps with finishing the Remedial Investigation (RI).

Grant Parker asked if the source of contamination is known. Sherri Zendri said some of the original sources are known, including the former El Camino del Cerro Landfill, but ADEQ has not found any continuing sources. It was expected that there would be a continuing source near the former Wrecksperts property, but ADEQ has performed cleanup work in the area and has not found any evidence. There may be potentially contributing sources near the landfill and along Highway Drive; ADEQ has done extensive investigations along the railroad and never found any potential sources. Contamination levels have decreased in the Pima County portion of the site (southwest of Interstate 10), and the South Shannon wellhead treatment system is capturing contamination heading in that direction.

She said that the carbon for the South Shannon wellhead treatment system was changed in September and January. The system treated 64 million gallons of water between carbon changeouts, with 3 ½ million gallons treated since January. Since the system started in June 2006, 464 million gallons of water have been treated, with over 85 pounds of total volatile organic compounds removed.

Sherri Zendri said that Pima County was granted the wastewater permit for the proposed treatment system in their portion of the site, and they received approval to move ahead with construction in August 2008. They are working out construction and right-of-way issues, and anticipate that the system will begin operating in spring 2009. They have not yet determined how state budget issues could affect their programs.

Sherri Zendri said that ADEQ recently had a substantial budget cut due to the state budget shortfall. This resulted in a “stop work” order for the contractors. This means that sampling and well installations will not take place for any of the WQARF sites until funding is restored to the WQARF program. The ADEQ contractors had been working on the site RI report and had estimated giving the draft to ADEQ by June 30, 2009. They did have chapters 1-5 completed, but Sherri Zendri had discussed reworking the structure of report. The work on the RI report will continue, but by ADEQ staff rather than by contractors. She reiterated that the plume is stable, and any wells that would have been drilled now would not have been included in the RI Report anyway. The status of the site in summer 2009 would likely be the same as it is now. ADEQ will continue to operate the South Shannon wellhead treatment system and other remedial systems where drinking water is being served. Sherri Zendri said that the recent budget cuts are to get the state to the end of this fiscal year, ending on June 30, but she has no information about the budget situation for next fiscal year.

Keith Adkins asked about the total amount of contamination removed at the site. Sherri Zendri said that she could calculate that number if the CAB was interested. There were three significant removal actions at the site, and Pima County had a soil vapor extraction (SVE) system at the former El Camino del Cerro Landfill. In addition, there was a SVE system at the former E.C. Winter property, but it never produced the removal rates that ADEQ anticipated. Gary Burchard said that it is also not known how much contamination is going away on its own (naturally attenuating).

Keith Adkins asked about the margin of error for the sampling results; Sherri Zendri said there is calibration data and the contractors do quality assurance/quality control before sending data to ADEQ.

5. Presentation on Water Resources and Groundwater Use in the Shannon Road/El Camino del Cerro WQARF Site as They Relate to the Tucson Region

Sherri Zendri gave the presentation, which was requested by the CAB at the last meeting. She said that there are three sources of water in Tucson: Central Arizona Project (CAP) water, groundwater and reclaimed water. She reviewed the Central Arizona Project. The CAP is comprised of 1.5 million acre-feet of Colorado River water and some from Lake Pleasant, and it provides water to more than 80 customers. She showed a map of the aqueduct for CAP, and where it goes through Tucson. The CAP aqueduct is pretty far away from the Shannon Road/El Camino del Cerro WQARF Site.

She then reviewed information about groundwater in the Tucson area, or the Tucson Active Management Area (AMA), which includes Pima, Pinal and Santa Cruz counties. The total use by municipal water providers in the Tucson AMA in 2000 was about 160,000 acre feet or 52.14 million gallons. She said that the percentage distributions are about the same now as they were in 2000. The average use in Tucson is 1/3 of an acre-foot per household per year, according to Tucson Water. She then showed a map showing the Metro Water, Tucson Water, and Flowing Wells Irrigation District (FWID) service areas. The Metro Water service area is approximately 26 square miles, and the Shannon Road/El Camino del Cerro WQARF Site is in a portion of this service area. The FWID service area is significantly further south, and does not impact the Shannon Road/El Camino del Cerro WQARF Site. Tucson Water's service area is the largest, covering 300 square miles with 225,000 customers, and has a CAP allocation of approximately 41.88 billion gallons.

Sherri Zendri then reviewed reclaimed water through the Roger Road Wastewater Treatment Facility and Sweetwater Wetlands, which are just south of the Shannon Road/El Camino del Cerro WQARF Site. If the Sweetwater Wetlands are expanded, their recharge and extraction could potentially impact the WQARF Site in the water flow and water levels, but the water quality would not likely be affected.

Terry Miley from Tucson Water then took the CAB through how the Sweetwater Wetlands work. Secondary effluent from the Roger Road Wastewater Treatment Plant is either: 1) sent through the filtration plant then sent to the customers directly (mostly golf courses and school grounds) as reclaimed water, or 2) delivered to eight recharge basins. The water from the filtration plant has to be backwashed before it can be recharged as secondary quality effluent, so the backwashed water is delivered to the wetlands to clean. The backwashed water goes into settling basins in various depths, where the solids drop out, then to polishing cells at various depths. Finally, the water is sent to the recharge basins, where it is recharged with other secondary effluent from the plant.

Marty Drozdoff asked if the settling ponds have to be dredged; Terry Miley said that the solids do have to be removed every few years. A few years ago, the solids were removed, tested for metals to ensure that they were not hazardous, and sent to Los Reales Landfill to use as cover; the water was recharged back into the system. They are looking to do something similar again. Terry Miley said that water is currently recharged and extracted 365 days a year, and more recharge basins are planned in the future.

Marty Drozdoff asked if the water recharged to the groundwater flows to the Shannon Road/El Camino del Cerro WQARF Site. Terry Miley said that it flows in the direction of regional groundwater flow in the area, and will eventually reach the site. The recharge process naturally removes much of the chemicals from the effluent. Gary Burchard said that when the complex system of basins is added, the

question is how it will push the groundwater around, and will it interfere with the final remedy for the WQARF Site. Sherri Zendri said that there could be potential effects on the site once the northernmost basins are installed. However, if Pima County can clean up their portion of the site before the wetlands expansion takes place, it should not affect the site. Tucson Water and ADEQ are in communication about the issues. Bob Ornelas added that if they can maintain the water in and water out at the same rate, there shouldn't be an issue, but Sherri Zendri said that infiltration is slower than extraction rates. Sherri Zendri said the original question brought up by the CAB at the last meeting was how contamination at the WQARF Site affects regional water issues. She said that more important than the loss of wells in the site due to contamination is the loss of wells due to water levels dropping.

6. Call to the Public

John Doncsecz asked if the samples from the wells are sent to an independent, certified lab; Sherri Zendri said that the state does have a lab, but the samples are sent to a commercial, analytical lab.

7. CAB Discussion, Vote and Co-Chair Signing of Amendment to Charter Indicating Change of Location of Information Repository

Melissa Hayes said the CAB decided to reread their charter when they were evaluating their process to vote to accept the resignation of a CAB member to see if it needed to be updated. An update was needed with the new location of the information repository, recently moved to the Flowing Wells Branch Library. Melissa Hayes said that she made this change in the charter, along with specifying that the site name was now "Shannon Road/El Camino del Cerro" versus it being two separate sites. She gave each CAB member a copy of the charter showing the amendments. Gary Burchard motioned to approve the amended charter; Terri Hutts seconded. The CAB voted. All CAB members were in favor; none were opposed; Marc Herman abstained. Melissa Hayes gave a copy of the amended charter to the co-chairs for signature; she will distribute copies at the next meeting.

8. CAB Outreach/Membership Discussion

Randy Abbey asked about the status of items that arose out of the ADEQ CAB/CAG Co-Chair Workshop in May 2008; the co-chairs came up with ideas for outreach for the CAB and for ADEQ. Melissa Hayes said that she spoke with Linda Mariner, the manager of the Public Involvement and Outreach Unit in Phoenix about it, who indicated that ADEQ already fulfills many of the outreach tasks that were discussed. This includes updates to ADEQ's semi-annual Web narratives, updates in the annual Registry Report, posting the most current fact sheets on the Web and providing site-specific information at CAB meeting presentations. Linda Mariner had said what ADEQ needs is CAB members to help find the right people or contacts to get the material to the intended audiences. Melissa Hayes said that ADEQ works with Ellie Towne for the Flowing Wells Neighborhood Association and Community Coalition, and ADEQ has done presentations to them in the past. She asked if the CAB had other groups to which ADEQ or the CAB could provide a presentation or materials. Randy Abbey said that many great ideas were compiled at the co-chair workshop; he said that he does not have the contacts in the area that other CAB members may have and reminded the CAB that they are the link between the community and ADEQ.

Randy Abbey said that he looked into speaking at a school, but it did not work out. Melissa Hayes reminded the CAB that ADEQ can provide the CAB members with any handouts to distribute. Marty Drozdoff said he is a co-chair on a political committee and asked if the CAB can make a presentation. Melissa Hayes said that it is up to the CAB what types of groups they feel would benefit from a presentation about the WQARF Site. Sherri Zendri also suggested inviting the group to the CAB

meetings. Randy Abbey suggested that Marty Drozdoff approach the group to see if they would be interested in a presentation and the CAB can discuss this at the next meeting. He asked that there be an agenda item at the next CAB meeting to discuss possible venues for CAB outreach.

9. Other Administrative Business

Melissa Hayes informed the CAB of several leadership changes in ADEQ and state government, including the Governor, ADEQ Director and ADEQ Southern Regional Office Director. She then said that the WQARF Advisory Board met in Tucson in late January, and Randy Abbey, Gary Burchard, Marty Drozdoff and Al Pesqueira were able to attend. As part of their meeting, the WQARF Advisory Board acknowledged the CAB members for their hard work over the years by presenting certificates. The WQARF Advisory Board members said that they appreciate how active the CABs are in Tucson. William Ellett, ADEQ Superfund Programs Unit Manager, then presented the CAB members who were not able to attend the WQARF Advisory Board meeting with their certificates of appreciation. He said that the certificates were signed by the chair and co-chair of the WQARF Advisory Board, who were appointed by the governor. Melissa Hayes also thanked the members who had been on the board since its formation.

Melissa Hayes also distributed a technical paper that Gary Burchard had brought to ADEQ's attention, entitled, "*Frequently Asked Questions Regarding Management of Chlorinated Solvents in Soil and Groundwater.*"

10. Next Meeting Date/Agenda Discussion

The next CAB meeting was scheduled for Tuesday, June 2, 2009. The meeting will take place at the Ellie Towne Flowing Wells Community Center, Large Multi-Purpose Rooms #2 and #3, at 1660 W. Ruthrauff, Tucson, 85705, from 6:00 p.m. to 7:30 p.m. Call Melissa Hayes, ADEQ Community Involvement Coordinator, at (520) 770-3309 or e-mail at hayes.melissa@azdeq.gov for meeting details and proposed agenda. Melissa Hayes said that ADEQ will keep the CAB updated in the meantime. Discussion topics for the next meeting proposed by the CAB include a site update, a budget update, and a discussion on ideas for venues for the CAB to do presentations to the community about the WQARF Site and CAB.

[The June 2, 2009, meeting has been postponed and will be rescheduled after July 1, 2009.]

11. Adjournment

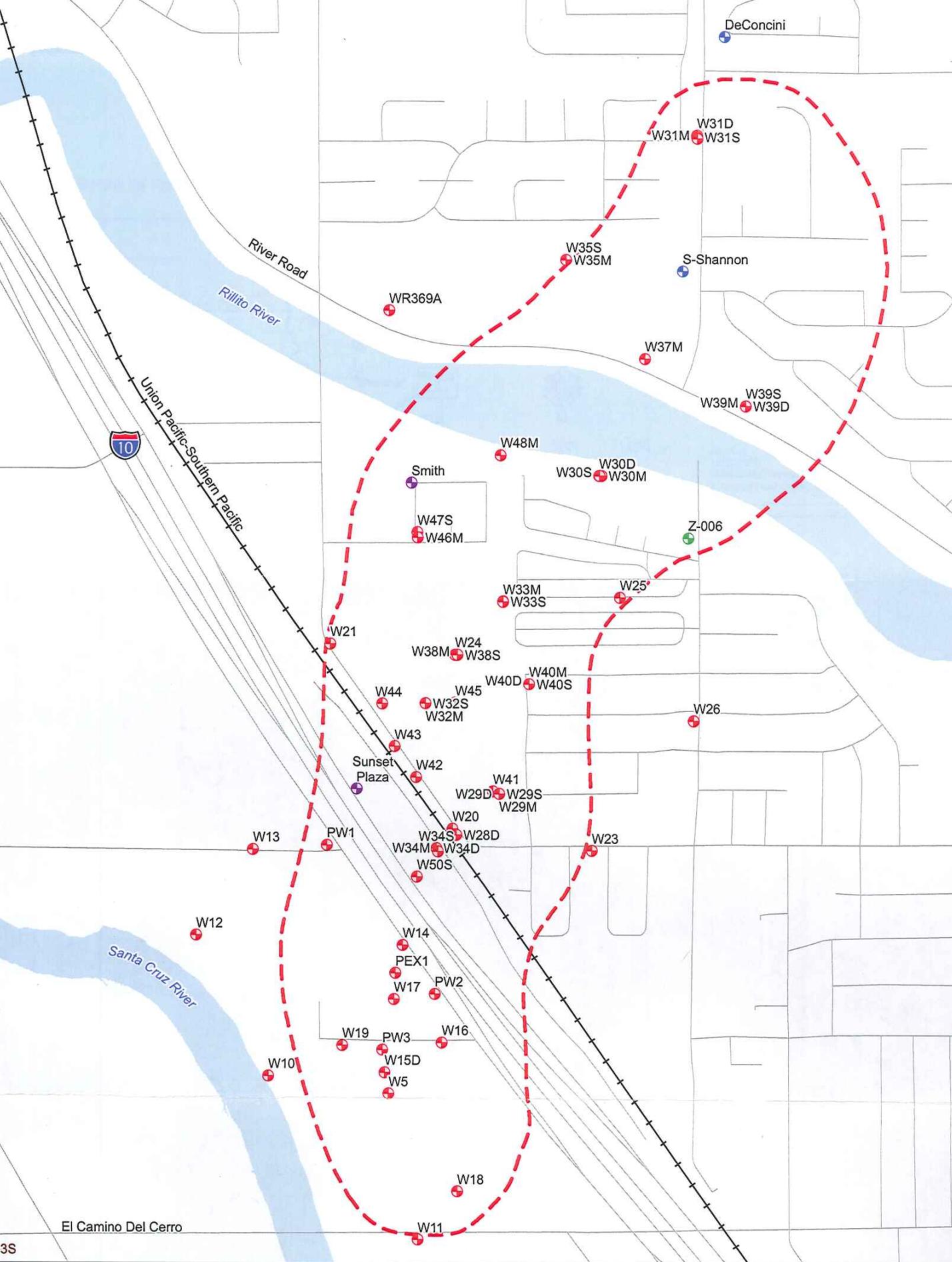
Gary Burchard motioned to adjourn the meeting; Marty Drozdoff seconded the motion. The meeting was adjourned at 7:29 p.m.

This meeting was recorded on a digital device as a record of the proceedings. To listen to the recording, or for additional documents mentioned in these minutes, contact ADEQ's Southern Regional Office, Community Involvement Office, 520/628-6712.



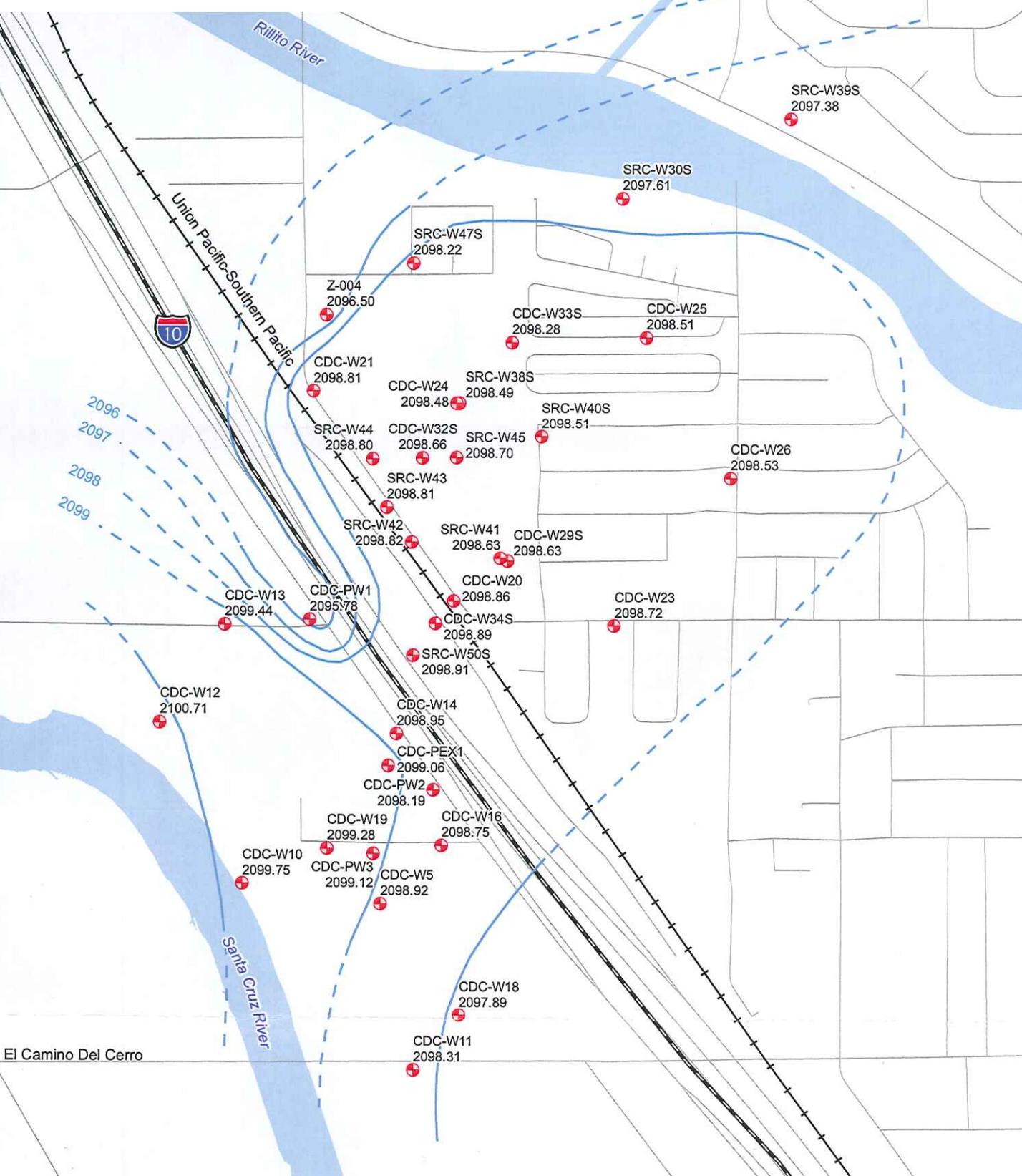
Shannon Road-Rillito Creek/El Camino del Cerro WQARF Community Advisory Board Meeting

**Sherri Zendri, Project
Manager
February 3, 2009**



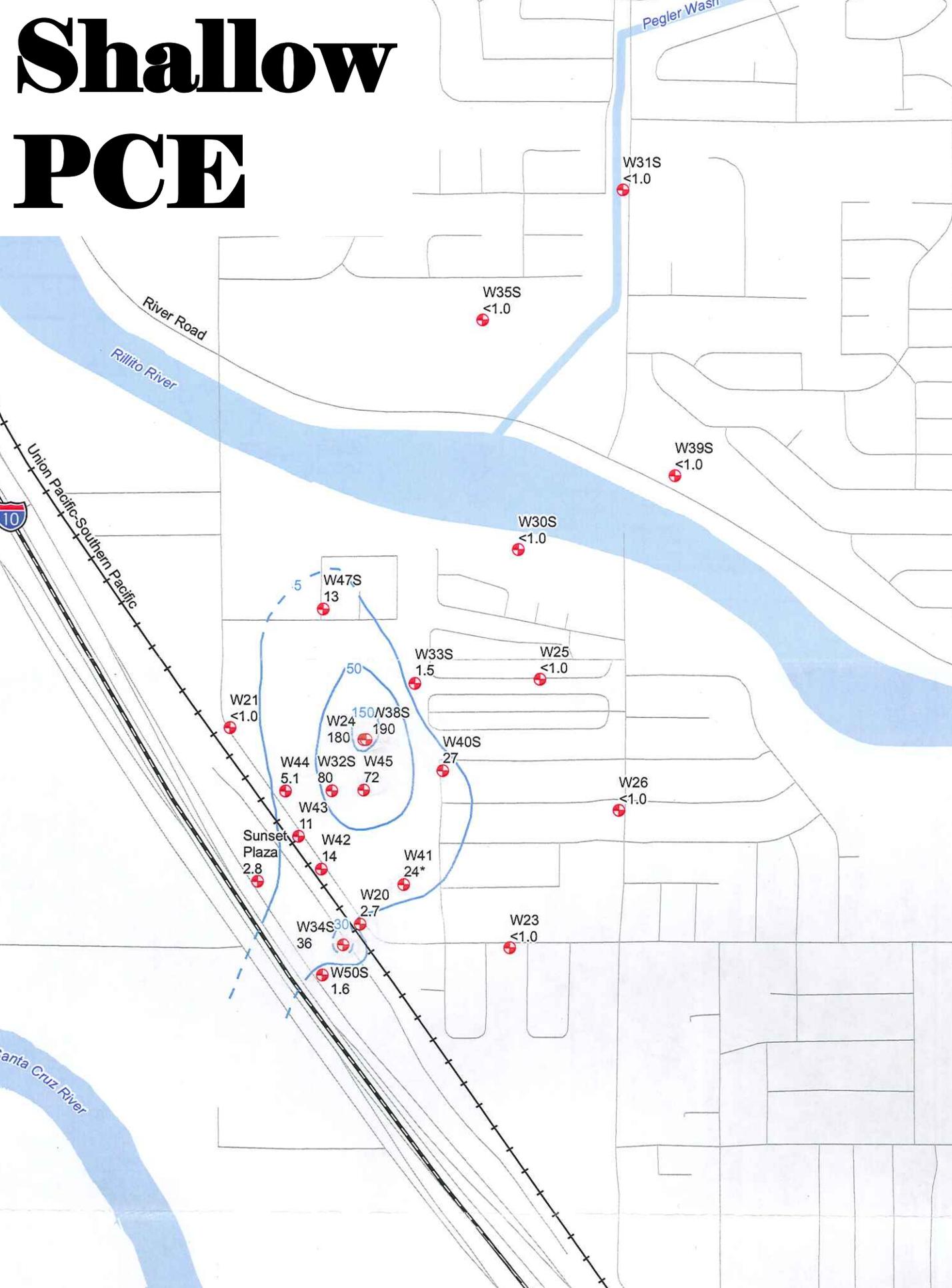
LEGEND

Water Elevation

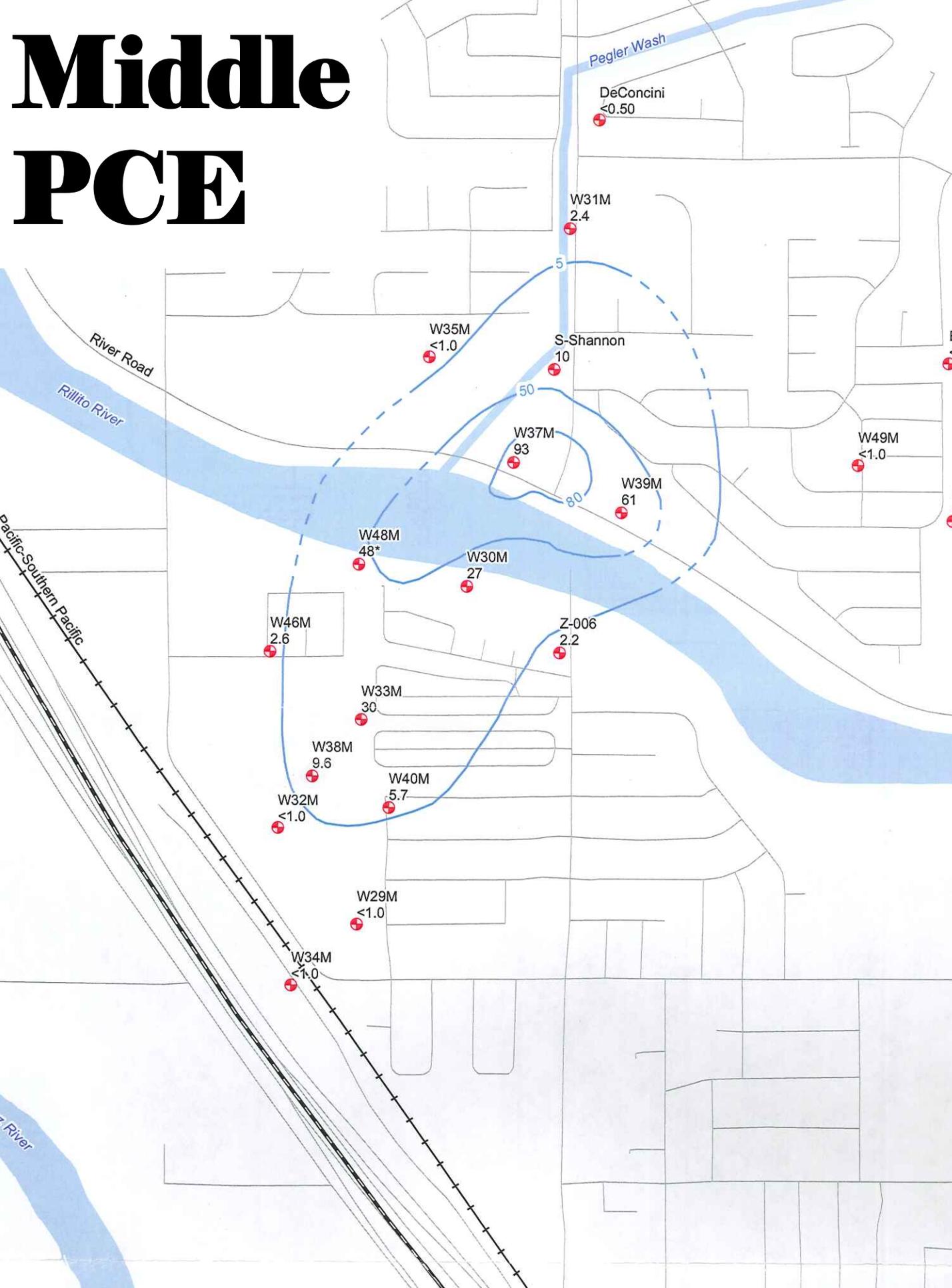


El Camino Del Cerro

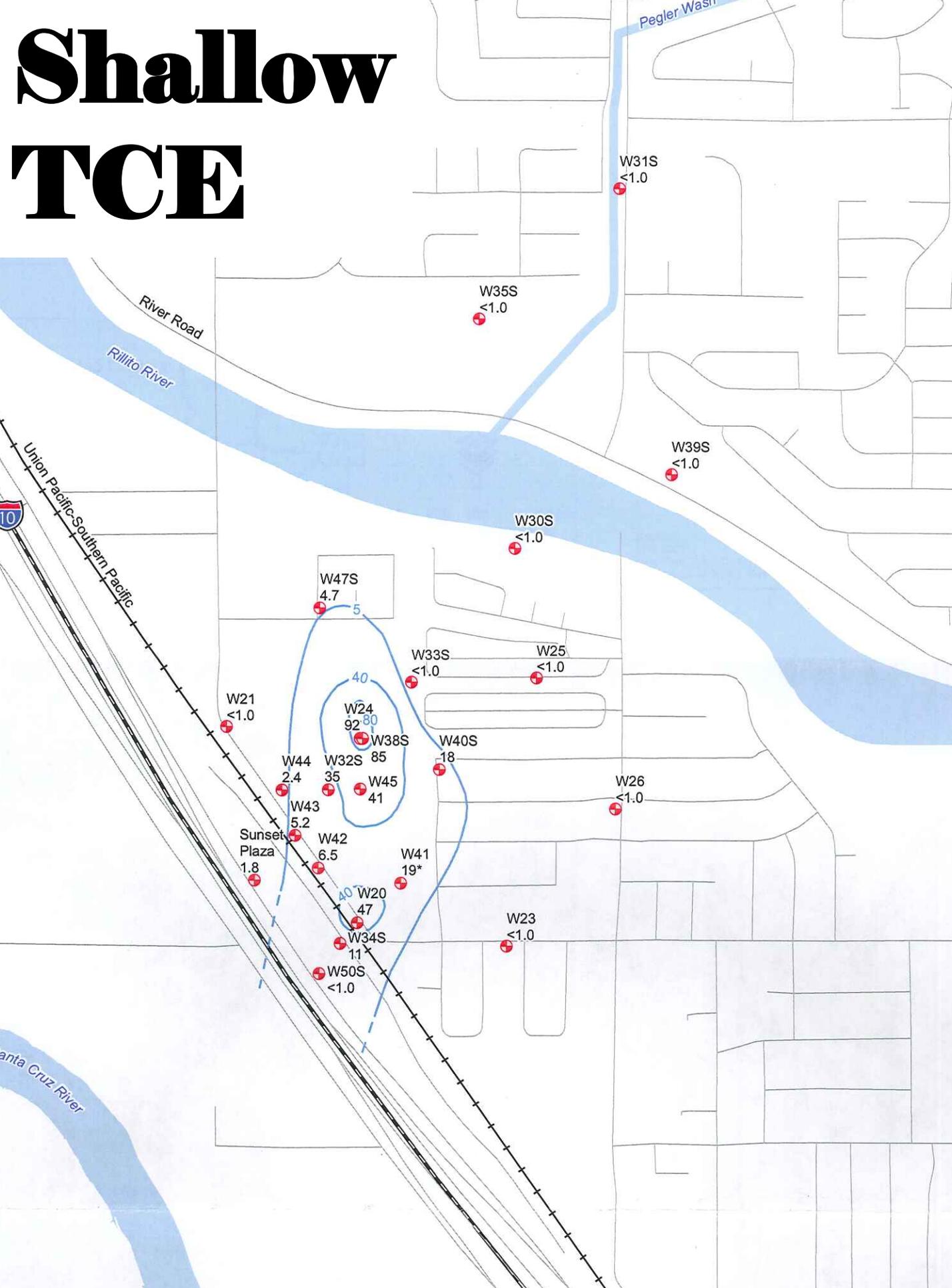
Shallow PCE



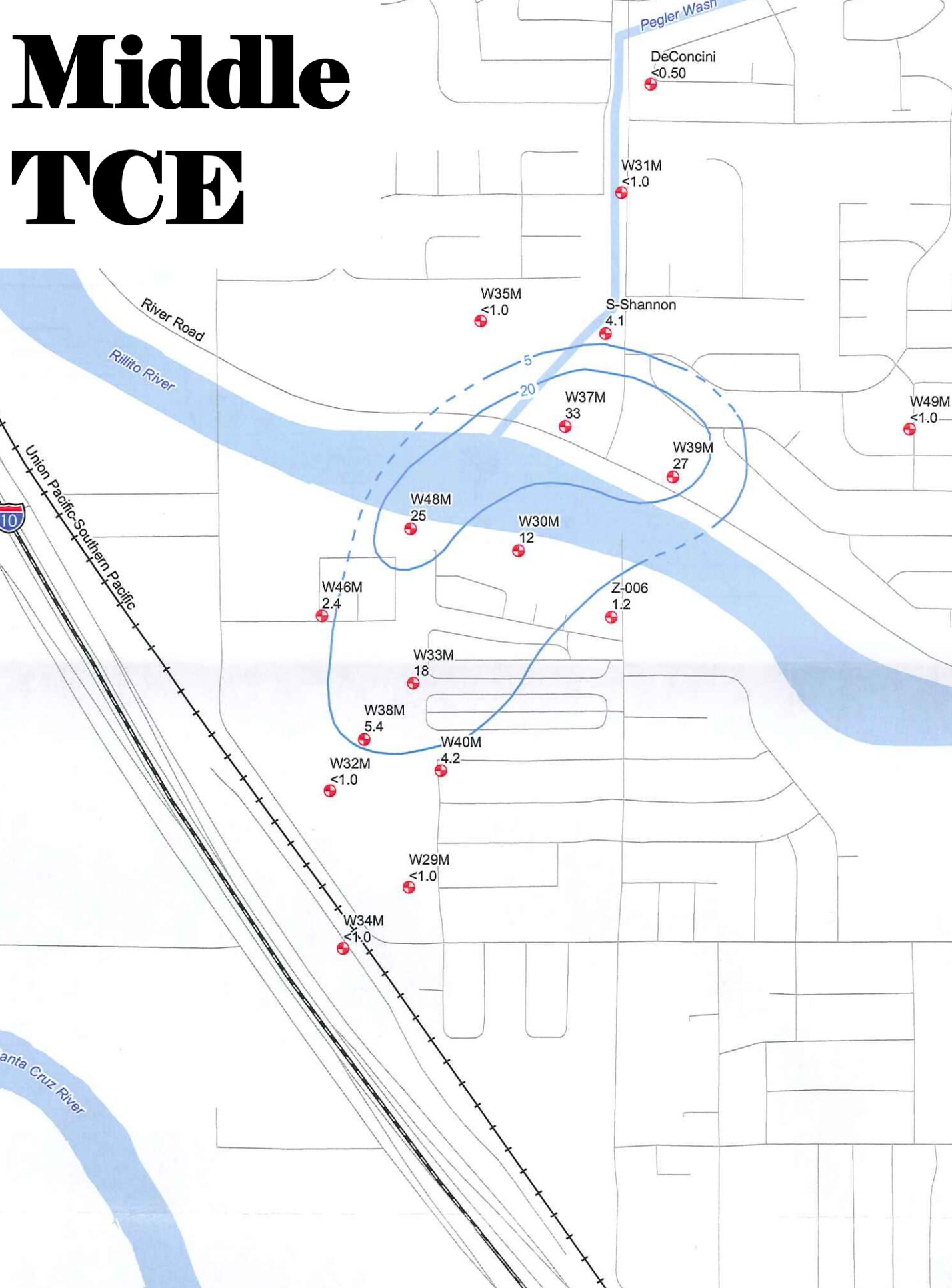
Middle PCE



Shallow TCE



Middle TCE



Oct '08 & Jan '09 Sampling Results

Sample Location	PCE (ppb)			TCE (ppb)		
	April 2008	Oct 2008	Jan 2009	April 2008	Oct 2008	Jan 2009
W-20(S)	16	2.7		59	47	
W-24(S)	170	180		84	91	
W-32(S)	87	80		36	35	
W-34(S)	33	36		12	11	
W-38(S)	210	190		76	85	
W-40(S)	25	27		17	18	
W-41(S)	26	23		23	18	
W-42(S)	9.5	14		4.4	6.5	
W-43(S)	6.6	11.0		3.2	5.2	
W-44(S)	3.4	5.1		1.7	2.4	
W-45(S)	72	72		41	41	
W-47(S)	15	13		5.8	47	
W-50(S)	<1.0	1.6		<1.0	<1.0	

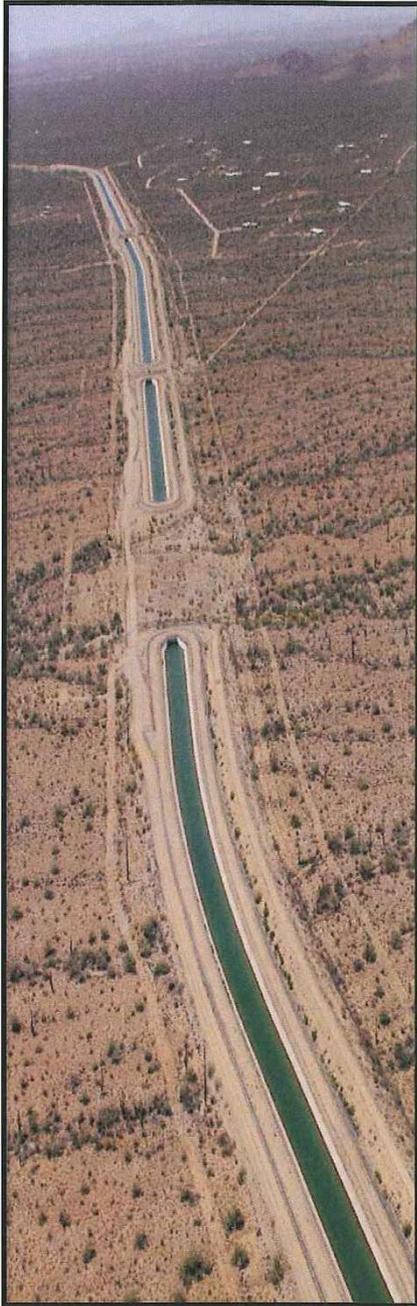
Oct '08 & Jan '09 Sampling Results

Sample Location	PCE (ppb)			TCE (ppb)		
	April 2008	Oct 2008	Jan 2009	April 2008	Oct 2008	Jan 2009
W-30(M)	26	27		11	12	
W-31(M)	7.3	2.4		28	<1.0	
W-33(M)	24	30		16	18	
W-37(M)	97	93		36	33	
W-38(M)	14	9.6		8.3	5.4	
W-39(M)	60	61		28	27	
W-40(M)	5.5	5.7		4.3	4.2	
W-46(M)	7.2	2.6		3.9	2.4	
W-48(M)	41	43		19	25	
W-49(M)	<1.0	4.0		<1.0	<1.0	
S. Shannon	11	10		3.7	4.1	

Regional Water use in the area of SRRC/ECDC

Three sources of water in Tucson

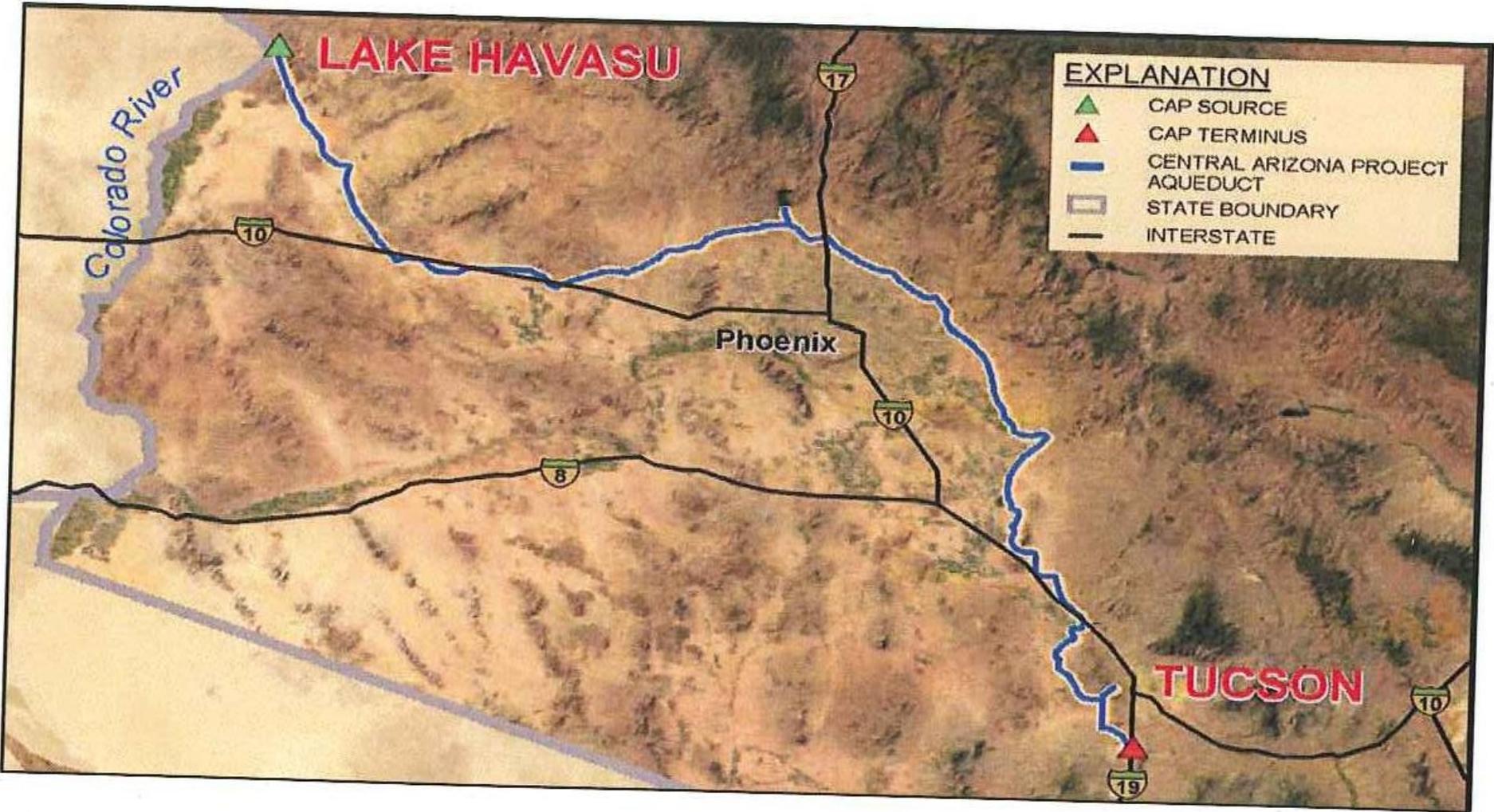
1. CAP
2. Groundwater
3. Reclaimed Water

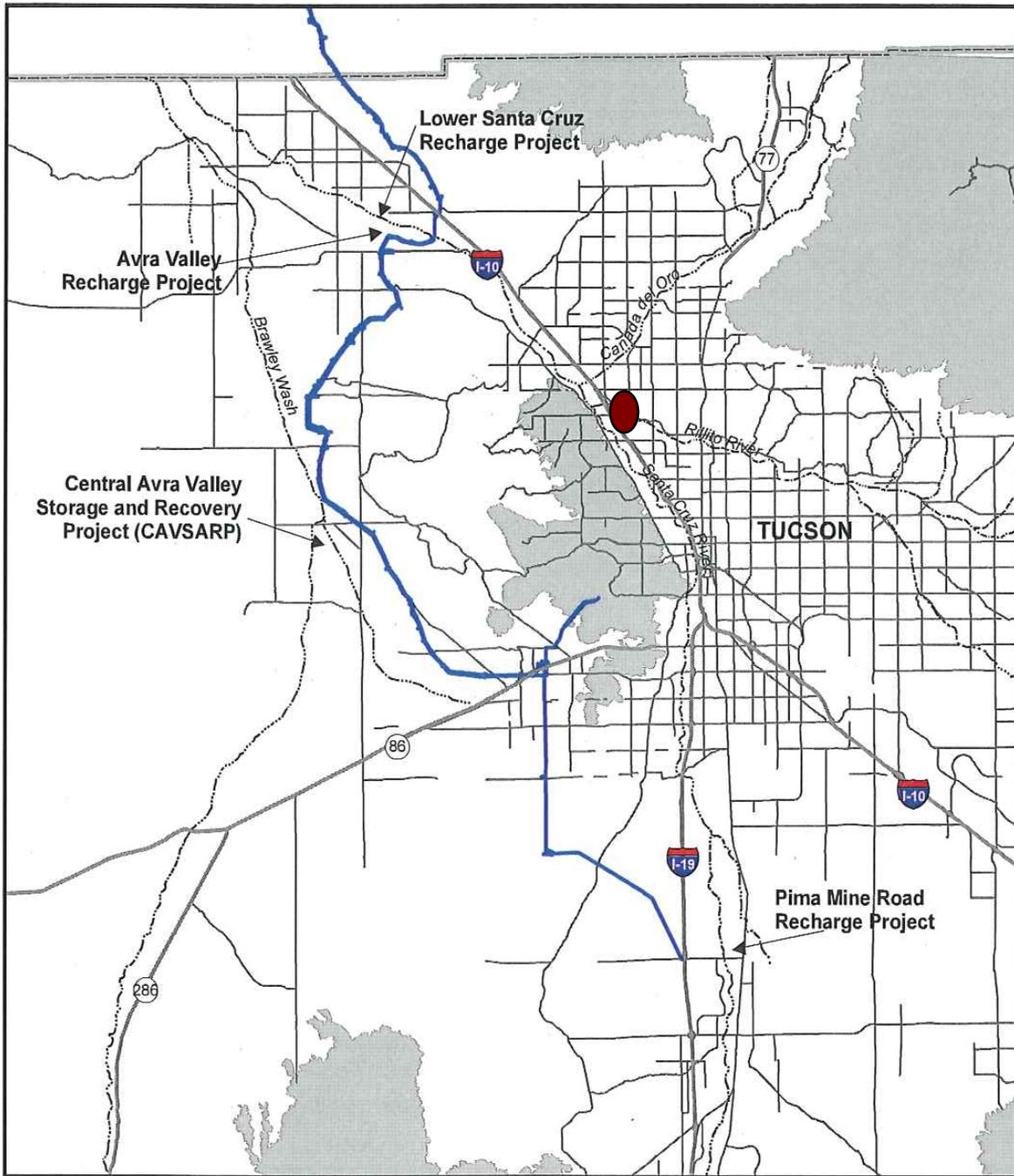


Central Arizona Project

- 1.5 million acre-feet of Colorado River water
- More than 80 customers

CAP Aqueduct

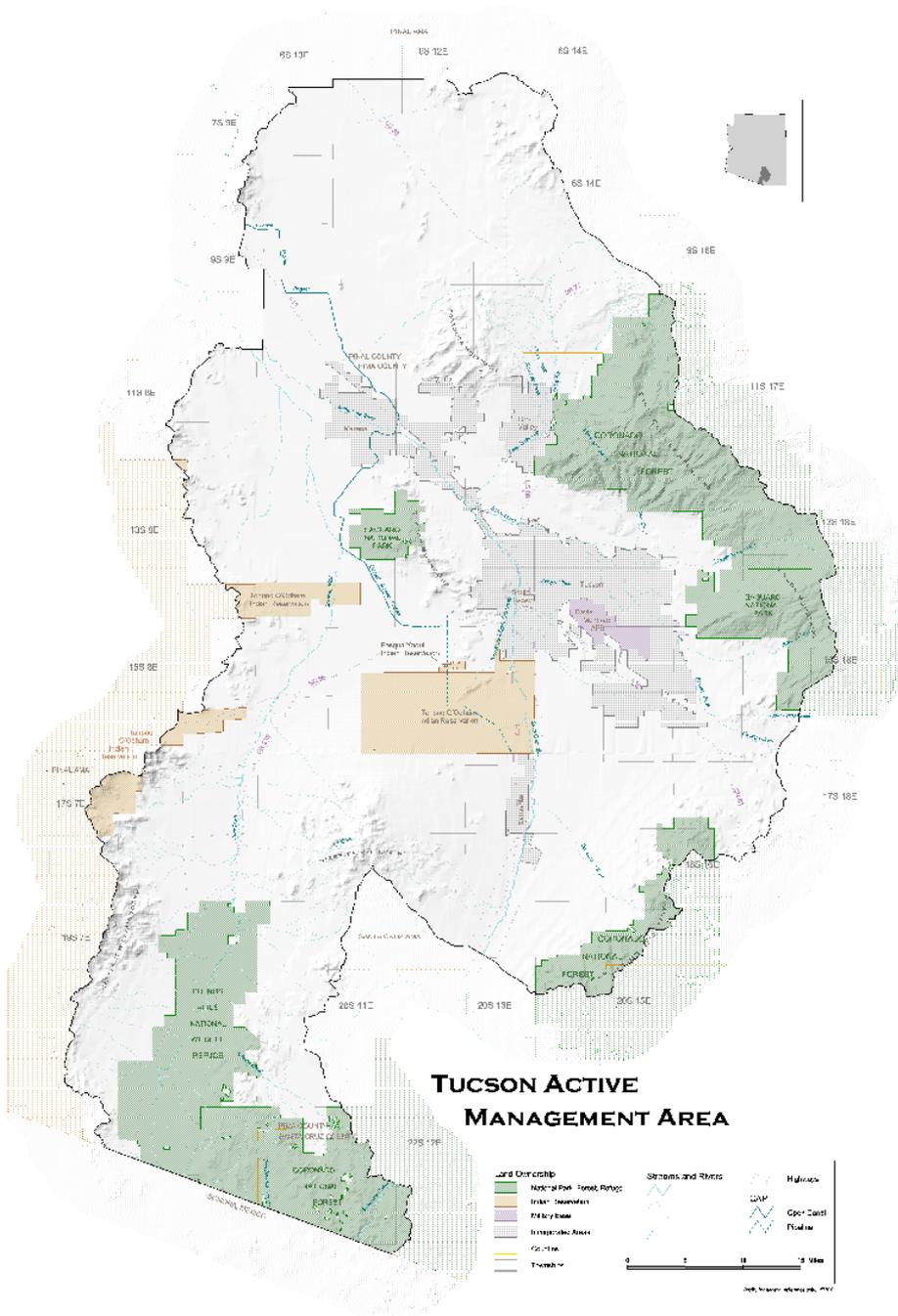


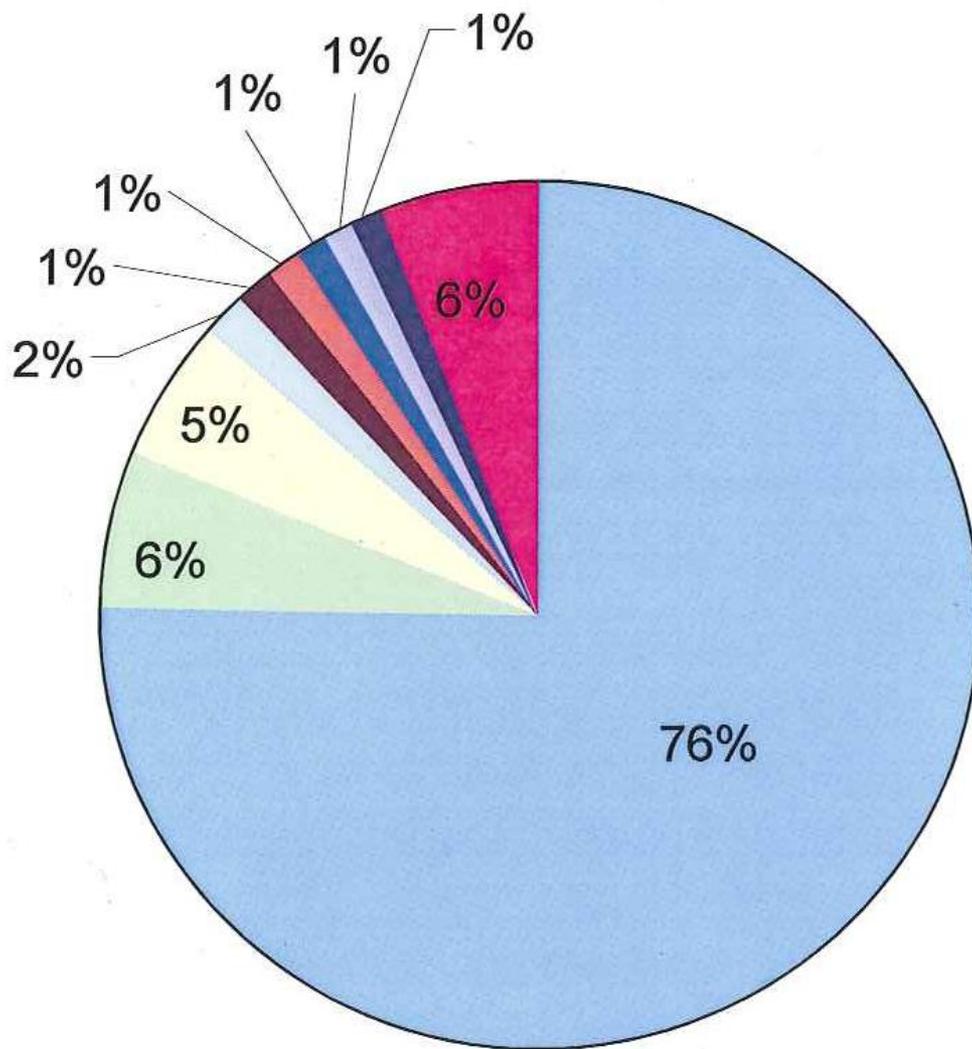


- CAP Aqueduct
- SRRC/ECDC

Tucson AMA

- 3,866 square miles in southern Arizona
- Pima, Pinal and Santa Cruz Counties

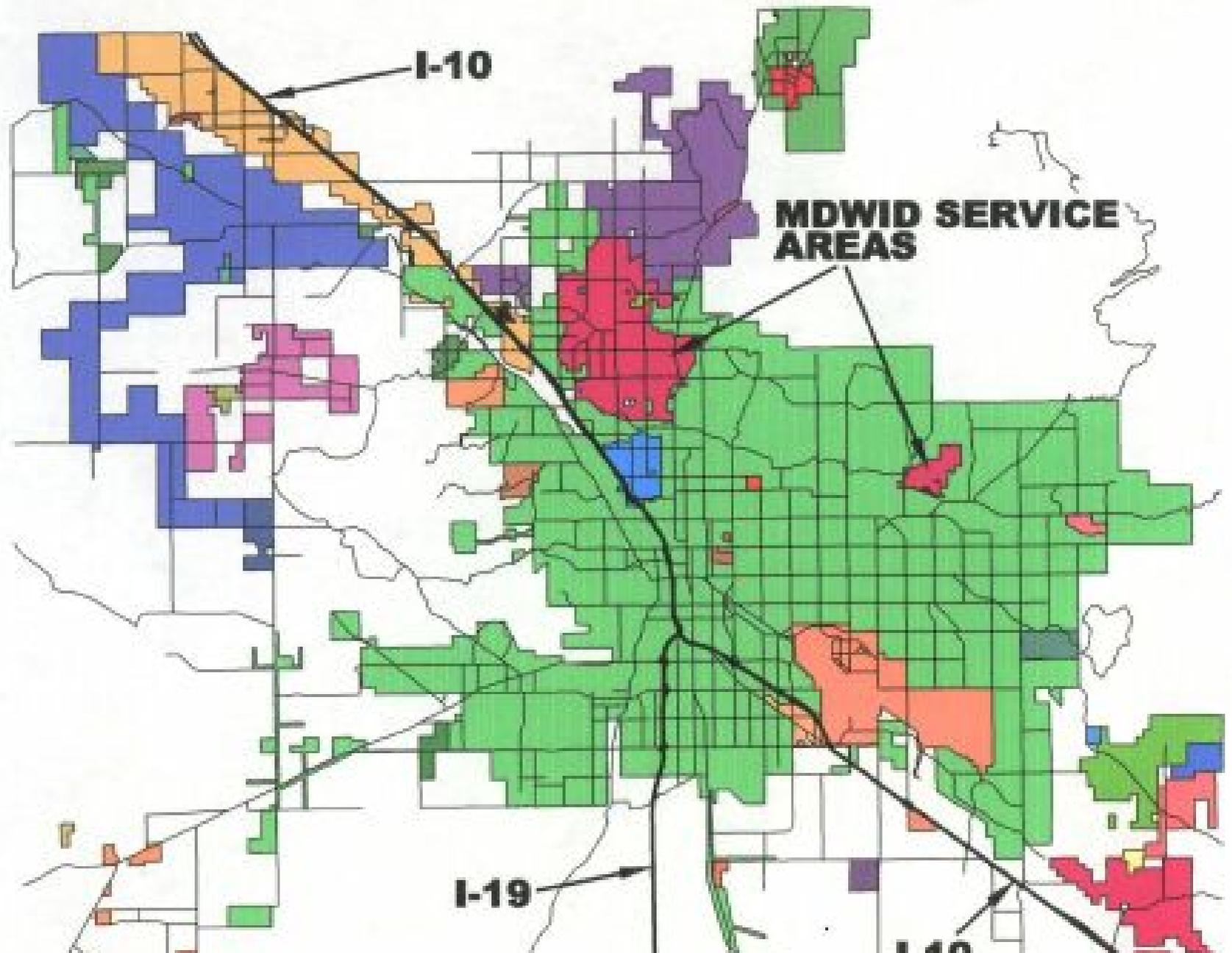


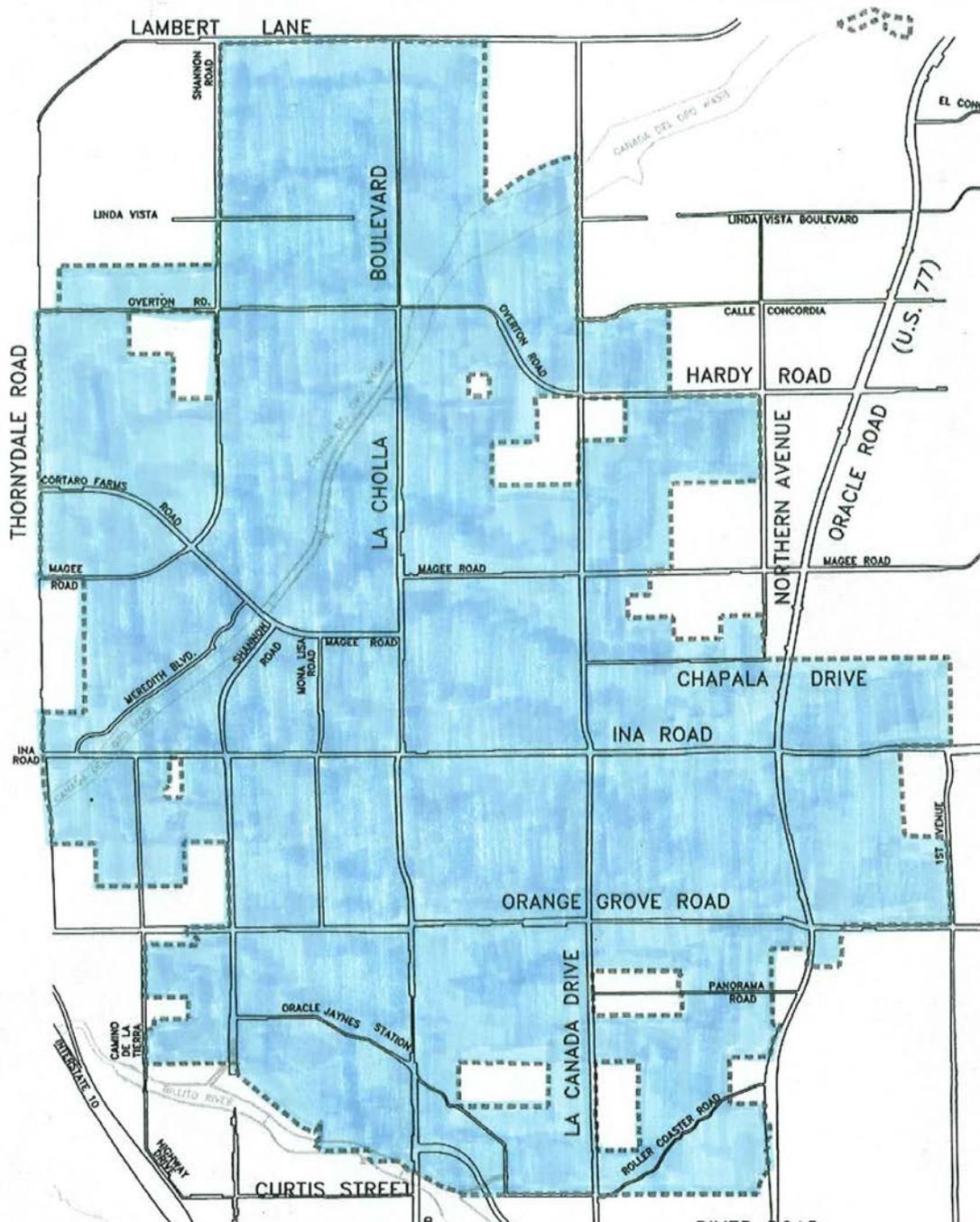


Total production by municipal water providers in Tucson AMA in 2000 about 160,000 acre feet or 52.14 gals

- | | |
|--|--|
|  Tucson Water |  Green Valley Water Company |
|  Metropolitan Domestic Water Improvement District |  Lago del Oro |
|  Town of Oro Valley |  University of Arizona |
|  Flowing Wells Irrigation District |  Davis Monthan AFB |
|  Community Water of Green Valley |  Other |

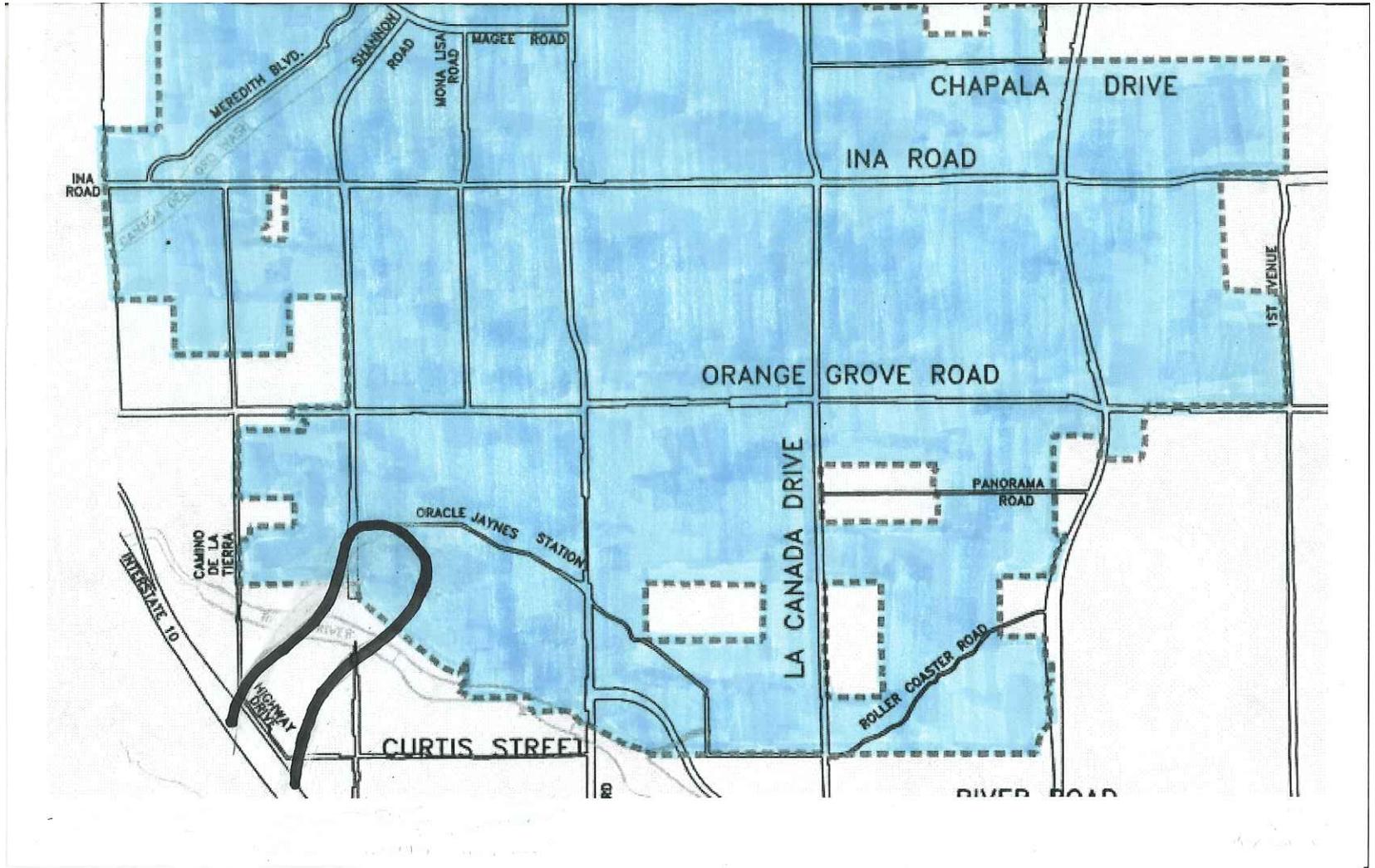
TUCSON METRO AREA

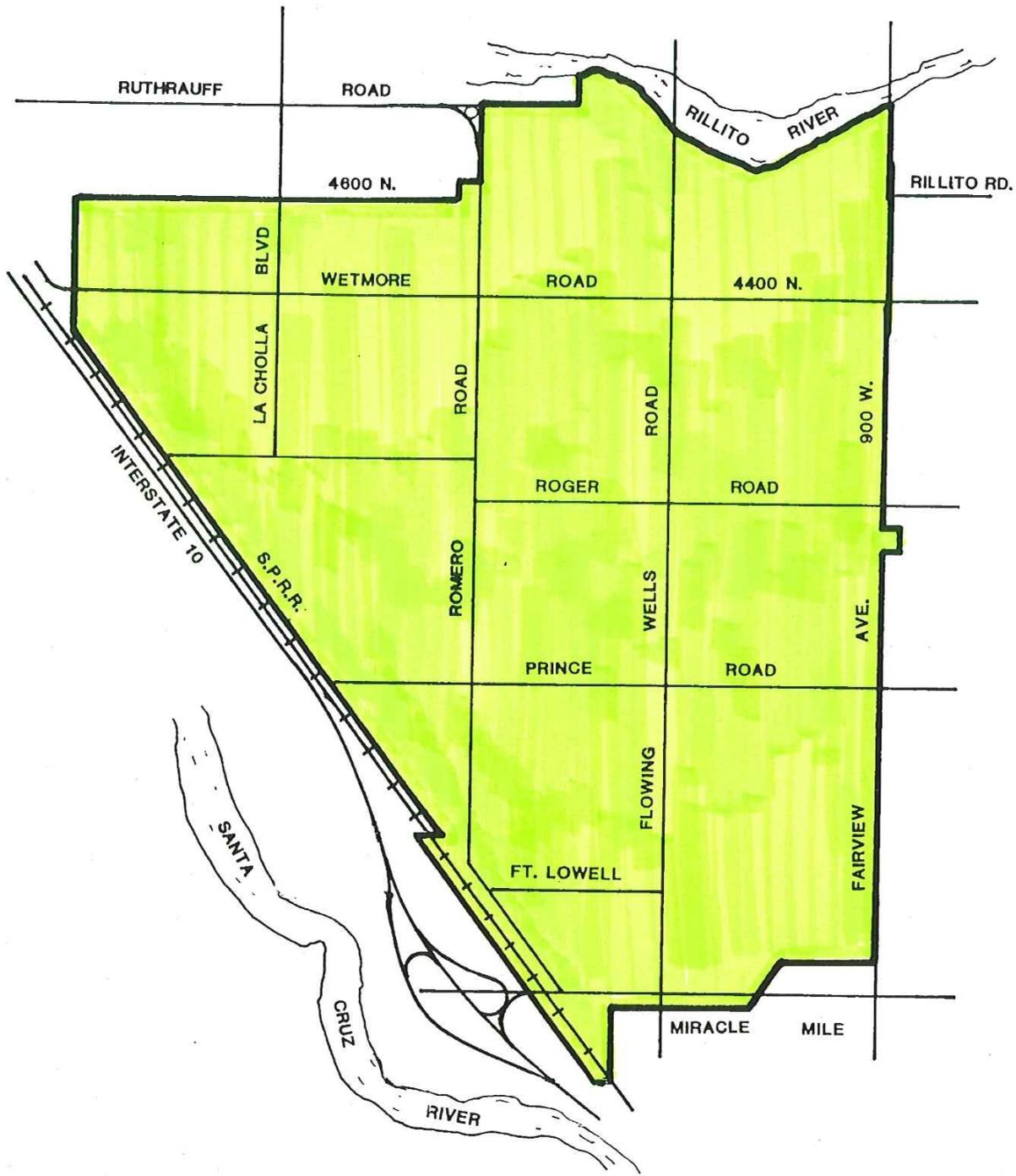




MDWID

- 26 sq. miles
- 16,000 customers
- 2.88 billion gals CAP



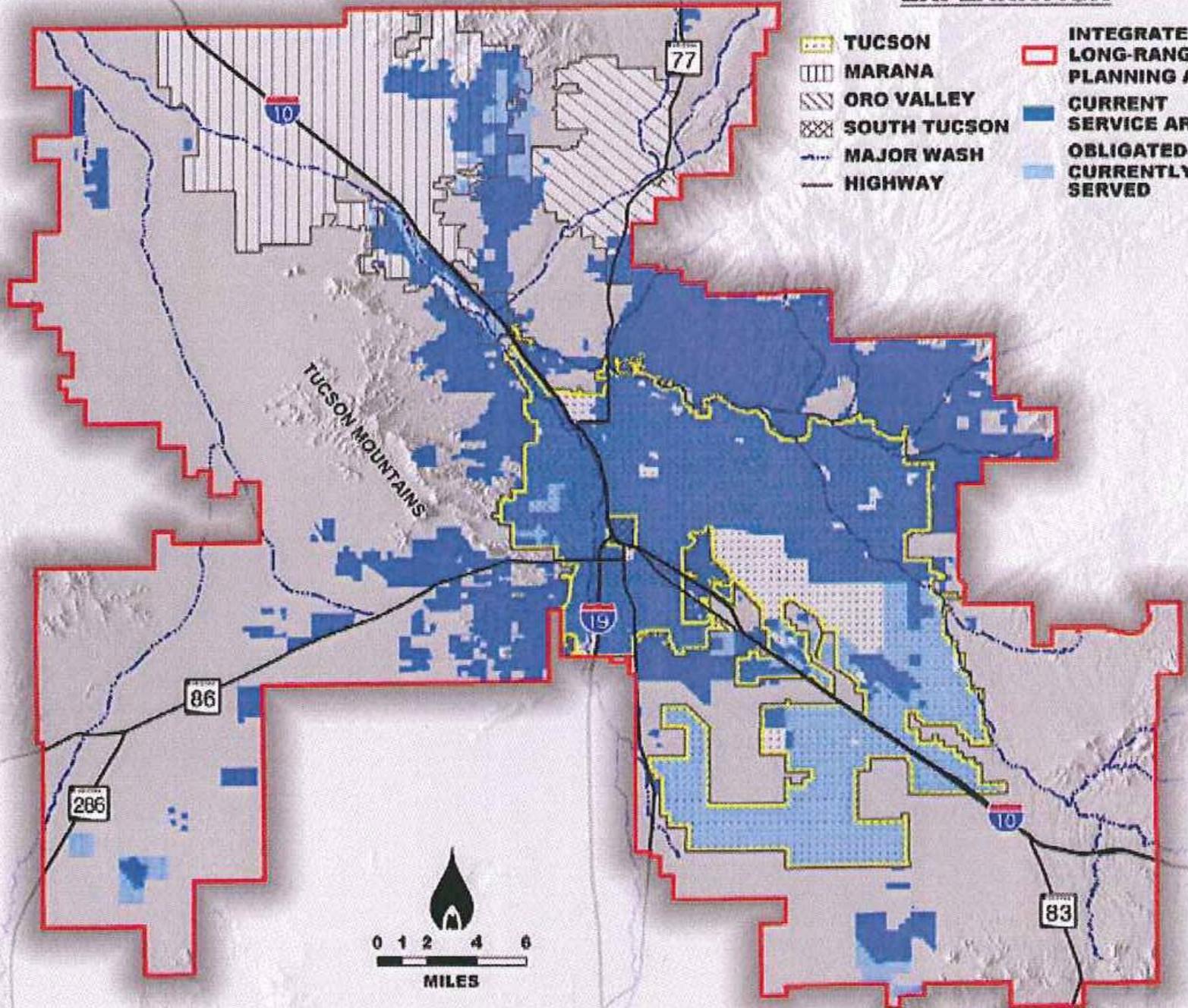


FWID

- 26 sq. miles
- 16,000 customers
- 1.42 billion gals CAP

EXPLANATION

-  TUCSON
-  MARANA
-  ORO VALLEY
-  SOUTH TUCSON
-  MAJOR WASH
-  HIGHWAY
-  INTEGRATED LONG-RANGE PLANNING AREA
-  CURRENT SERVICE AREA
-  OBLIGATED AREA
-  CURRENTLY NOT SERVED



Tucson Water

- 300 sq miles
- 225,000 customers
- 41.88 billion gals CAP
- 4.88 billion gals reclaimed water deliveries

LEGEND

TREATED WASTEWATER

EXTRACTION WELLS

RECOVERED RECHARGED WATER

BACKWASH

RECLAIMED WATER

ROGER ROAD
WASTEWATER
TREATMENT
FACILITY

FILTRATION
PLANT

CHLORINE
CONTACT
CHAMBER

RESERVOIR

I-10

SANTA
CRUZ
RIVER

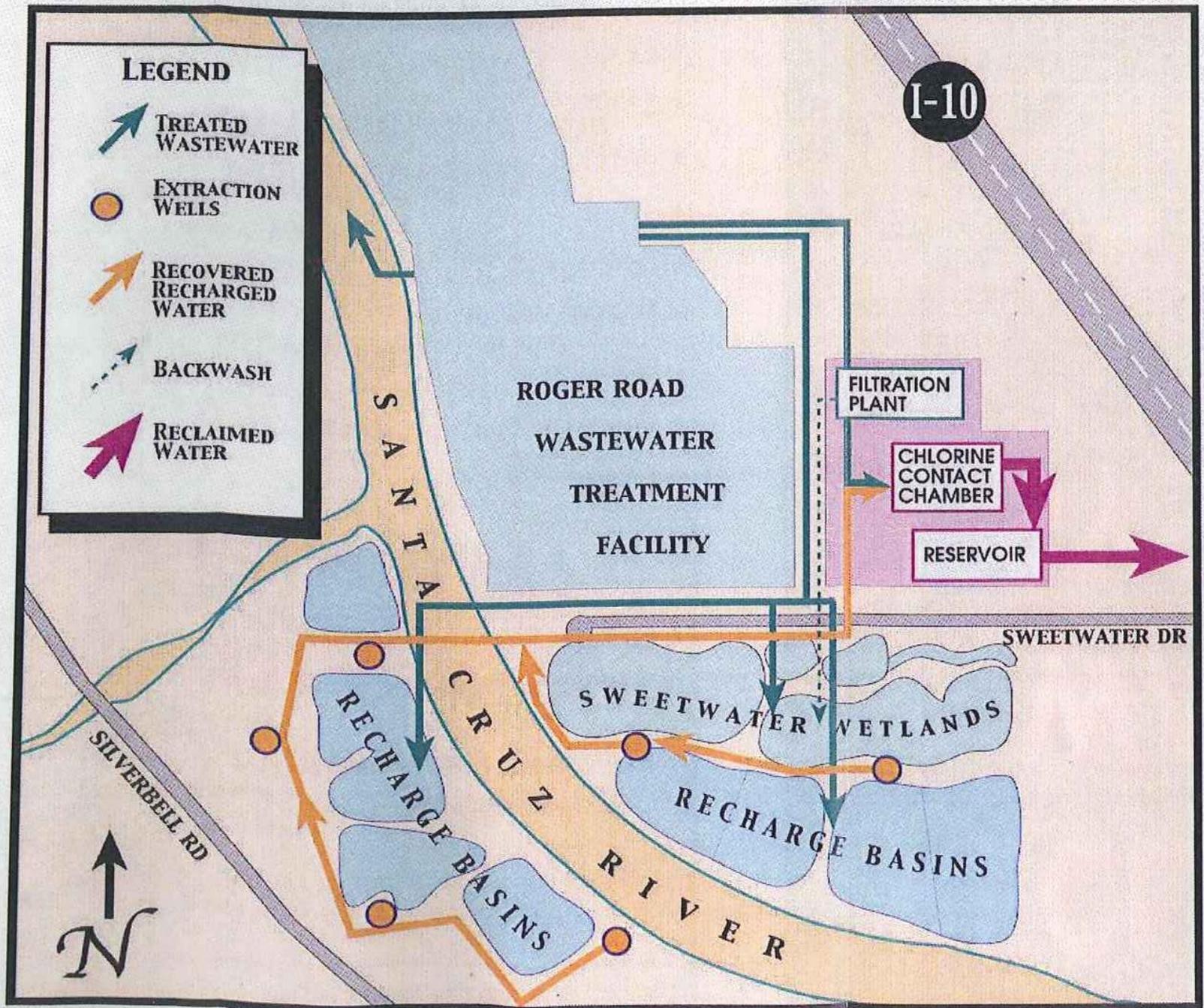
SWEETWATER DR

RECHARGE
BASINS

SWEETWATER
WETLANDS

RECHARGE
BASINS

SILVERBELL RD



Sweetwater Recharge Facility

- 17.3 acres of wetlands
- 100 miles of transmission lines
- 600 customers
- Serves 42.36 billion gals
- Recharge/recovery of 21.18 billion gals

