

FOX CANYON GROUNDWATER MANAGEMENT AGENCY

A STATE OF CALIFORNIA WATER AGENCY



BOARD OF DIRECTORS

Lynn E. Maulhardt, *Chair, Director, United Water Conservation District*
Charlotte Craven, *Vice Chair, Councilperson, City of Camarillo*
David Borchard, *Farmer, Agricultural Representative*
Steve Bennett, *Supervisor, County of Ventura*
Dr. Michael Kelley, *Director, Zone Mutual Water Company*

EXECUTIVE OFFICER
Jeff Pratt, P.E.

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Fox Canyon Groundwater Management Agency (FCGMA) will hold an **Executive Committee Meeting** from **3:00 p.m. to 5:00 p.m.** on **Tuesday, January 21, 2014** in the **Atlantic Conference Room, Main Plaza Level** of the Ventura County Government Center, Hall of Administration Building, at **800 South Victoria Avenue, Ventura, California.**

FCGMA EXECUTIVE COMMITTEE MEETING AGENDA

January 21, 2014

Members: Chair Lynn Maulhardt
Co-Chair Charlotte Craven

- A. Call to Order**
- B. Introductions**
- C. Public Comment** – Audience members may speak about FCGMA-related matters not on today's Agenda.
- D. Minutes** – Approve the minutes from the November 15, 2013 Executive Committee meeting.
- E. Application for Well Permit, Carmichael Property** – Discuss application and information received by applicant, and discuss Policy Implications by this request. Provide feedback and direction.
- F. Conejo Creek Project, Proposed Agreement Between Pleasant Valley (PV) County and Camrosa Water Districts and Consideration of a FCGMA Resolution to Provide Credits** – Discuss request by PV and Camrosa for approval by the FCGMA for credits to support the proposed Agreement to supply diverted Conejo Creek water. Provide feedback and direction.
- G. Adjourn the Executive Committee Meeting** – Adjourn until the next Executive Committee meeting, to be scheduled at a later date.

NOTICES

The FCGMA Board strives to conduct accessible, orderly, and fair meetings where everyone can be heard on the issues. The Board Chair will conduct the meeting and establish appropriate rules and time limitations for each item. The Board can only act on items designated as Action Items. Action items on the agenda are staff proposals and may be modified by the Board as a result of public comment or Board member input. Additional information about Board meeting procedures is included after the last agenda item.

Administrative Record: *Material presented as part of testimony will be made part of the Agency's record, and 10 copies should be left with the Board Clerk. This includes any photographs, slides, charts, diagrams, etc.*

ADA Accommodations: *Persons who require accommodation for any audio, visual, or other disability in order to review an agenda or to participate in the Board of Directors meeting per the Americans with Disabilities Act (ADA), may request such accommodation in writing addressed to the Clerk of the FCGMA Board, 800 So. Victoria Avenue, Location #1610, Ventura, CA 93009-1610, or via telephone by calling (805) 654-2014. Any such request should be made at least 48 hours prior to the meeting so staff can make the necessary arrangements.*

Availability of Complete Agenda Package: *A copy of the complete agenda package is available for examination at the FCGMA office during regular working hours (8:00 a.m. to 5:00 p.m. Monday through Friday) beginning five days before the Board meeting. Agenda packet contents are also posted on the FCGMA website as soon as possible, and left there for archival retrieval in case reference is needed on previously considered matters. Questions about specific items on the agenda should be directed to the Agency's Executive Officer.*

Continuance of Items: *The Board will endeavor to consider all matters listed on this agenda. However, time may not allow the Board to hear all matters listed. Matters not heard at this meeting may be carried over to the next Board meeting or to a future Board meeting. Participating individuals or parties will be notified of the rescheduling of their item prior to the meeting. Please contact the FCGMA staff to find out about rescheduled items.*

Electronic Information and Updates: *Our web site address is <http://www.fcgma.org>. Information available online includes the Board's meeting schedule, a list of the Board members and staff, general information, and various Agency forms. If you would like to speak to a staff member, please contact the FCGMA Clerk of the Board at (805) 654-2014.*



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MINUTES

Minutes of the Fox Canyon Groundwater Management Agency's (FCGMA) Executive Committee meeting held **Friday, November 15, 2013** in the PWA Conference Room 346 at the Ventura County Government Center, Hall of Administration, 800 South Victoria Avenue, Ventura, California.

- A. Call to Order** – The meeting commenced at 2:00 p.m.
- B. Introductions** – In attendance were: (1) Lynn Maulhardt, FCGMA Executive Committee Chair; (2) Charlotte Craven, FCGMA Executive Committee Co-Chair; (3) Gerhardt Hubner, WPD, Deputy Director; (4) Kathleen Riedel, Groundwater Specialist; (5) Jessica Rivera, FCGMA Interim Clerk of the Board; (6) Sol Chooljian, Crestview Mutual Water Company (CMWC); (7) Phil McCall, Solano Verde; (8) Robert Eranio, Crestview Mutual Water Company (CMWC) and Las Posas Users Group (LPUG); (9) Bryan Bondy, Calleguas Municipal Water District (CMWD); (10) Ian Prichard, Camrosa Water District; (11) Chris Laber, Numeric Solutions and CMWC; (12) Daryl Smith, grower; (13) Carol Schoen, Zone Mutual Water Company (ZONE); (14) Lucie McGovern, City of Camarillo; and (15) Frank Brommenschenkel.
- C. Public Comments** – Ms. Lucie McGovern, City of Camarillo, commented the City of Camarillo had met with FCGMA staff and finalized comments regarding the City of Camarillo's Northern Pleasant Valley Desalter Groundwater Study. She requested the Agency schedule a technical review of the project to determine if there were any policy implications.
- D. Meeting Minutes** - The Executive Committee approved the minutes from the October 11, 2013 meeting.
- E. Solano Verde Mutual Water Company Application for Transfer of Historic Allocation**

Ms. Kathleen Riedel, Groundwater Specialist, provided a presentation reviewing: (1) the historical allocation (HA) transfer request; (2) applicable Ordinance Code sections; (3) policy implications; (4) background of both Solano Verde Mutual Water Company (SVMWC) and Crestview Mutual Water Company (CMWC); (5) the Numeric Solutions, LLC report submitted to Agency staff by CMWC; and (6) water quality and groundwater levels within the subject areas. She concluded her presentation by providing the following options for the Committee to consider recommending to the Board:

- Permanently grant the HA transfer as requested.
- Conditionally grant the HA transfer to CMWC, but require that at the time of transfer, the HA per acre be recorded for the Solano customers, and provided back to them from CMWC if they install a private well.
- Do not grant the HA transfer, but require the remaining HA to be assigned to the water purveyor which provides water to the Solano customers, where it could be prorated

800 South Victoria Avenue, Ventura, CA 93009-1610
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Website: www.fcgma.org

Item D – Page 1 of 3

back if they install a private well and/or decrease the fees charged for the water that the customers are provided.

- Do not grant the HA transfer; or
- Grant the HA transfer with the condition that an efficiency allocation is not available to parcels once served by SVMWC.

Mr. Robert Eranio, CMWC and Chair of LPUG, provided a brief presentation reviewing: (1) timeline of actions; (2) the applicable Ordinance Code section; (3) Agency staff concerns specific to CMWC, as well as SVMWC; and (4) stakeholder input from LPUG, United Water Conservation District, and Calleguas Municipal Water District. He provided closing thoughts and concluded his presentation by requesting the Executive Committee place the item on the December 4, 2013 FCGMA Board agenda, with a recommendation to approve.

Discussions ensued regarding water levels and concerns that if this were approved, it would set precedence for future transfer requests. Chair Maulhardt commented he leaned towards the Agency's Option No. 5. Co-Chair Craven inquired if the transfer could be granted with a clear condition that it is in perpetuity and binding on any mutual or successor, and Mr. Gerhardt Hubner, WPD, Deputy Director, responded he would confer with Agency Counsel. Both Committee members agreed they would like to have Agency Counsel's opinion concerning the language for the conditions.

The Committee directed Agency staff to place the item on the December 4, 2013 regular FCGMA Board meeting agenda for further review. In addition, the Committee stated their current recommendation was to proceed with Option No. 5; however, they would like the legal aspect answered prior to the Board meeting, and noted they reserved the right to change their recommendation at the Board meeting based upon any further information received.

F. Consider Zone Mutual Water Company's Proposed Changes to the FCGMA Well Permitting Procedure

Ms. Carol Schoen, Zone Mutual Water Company (ZONE), provided background surrounding the creation of the questionnaire, noting she had created the questionnaire solely as an interested party. She continued no Board had reviewed or approved the questionnaire, and ZONE was not proposing any changes at this time.

Ms. Kathleen Riedel, Groundwater Specialist, began her presentation stating that at the October 11, 2013 Executive Committee meeting, the Committee concurred with Agency staff to not proceed with an Ordinance Code change as proposed by LPUG. She noted in follow-up, Ms. Schoen had proposed an alternative: the adoption and use of a questionnaire which would be submitted when one applied for a new well within the Las Posas basins. Ms. Riedel provided an overview of the proposed form and proceeded to review Agency staff's recommended changes of the form. Chair Maulhardt commented he liked the idea of adding this supplemental questionnaire to the well permitting process, and agreed with Agency staff's recommended changes.

Discussions ensued concerning what the process would be if the parties of the transfer were not able to reach a decision. Chair Maulhardt stated both parties would need to agree on a transfer. He continued any transfer where both parties had reached an agreement would be brought before the Board with staff's recommendation of approval. In addition, those where an agreement could not be reached would need to be brought before the Board for additional review. He concluded that the process would be readdressed should there be issues concerning the amount of disagreements being heard by the Board.

The Committee recommended staff proceed with the questionnaire form, with changes as presented by Agency staff.

G. Adjourn the Executive Committee Meeting

Chair Maulhardt adjourned the Executive Committee meeting at 3:40 p.m.

Submitted by:

Jessica L. Rivera
FCGMA Interim Clerk of the Board

DRAFT

**Executive Committee Meeting
January 21, 2014**

SUBJECT: Well Application – Glen and Kim Carmichael

Introduction:

On September 10, 2013, Glen and Kim Carmichael submitted a well application to the Agency for a water supply well within the Agency boundary. The purpose of the well is to provide groundwater to areas within and outside of the Agency boundary. The groundwater is to be extracted from the West Las Posas Basin. Traditionally the property has been supplied with groundwater by Del Norte Mutual Water Company (MWC) starting prior to 1985. The proposed well would allow for replacement or augmentation of the current water supply, and also allow for additional acres to be brought into production.

Approximately 61.25 acres were irrigated in 1989. The applicant proposes to increase the irrigated acreage from that irrigated in 1989 (approximately 61 acres) by an additional 163.75 acres (total of 225 acres). Proposed total water usage is 450 acre-feet per year.

Policy Implications:

1. Specifically in the case of new well permits, should the Agency allow farming in the aquifer outcrop using water supply from new wells and if so, under what certain circumstances?
2. Specifically in the case of new well permits, should landowners be allowed to expand water use in the Expansion area, and what should be the requirements for allowing it (i.e. paying the surcharge rate)?

Specific Details of Well Permit Request:

Glen and Kimberly Carmichael filed a request for a well permit in the West Las Posas Basin, proposed monitor only area. The Fox Canyon Groundwater Management Agency (FCGMA) well application was received on September 10, 2013, with additional information provided on September 17, 2013. The well is to be located along the southern edge of parcel APN 107-0-0130-255, which has a site address known as 67 East La Loma Avenue in Somis, California. The proposed drill site is indicated on the submitted Well Location Map (Attachment 1- Well Permit Application). Per the application, groundwater is to be extracted to irrigate a total of 225 acres (100 acres of avocado trees, 75 acres of lemon trees and 50 acres of hay) on parcels APNs 107-0-130-255 (300.00 acres), 107-0-130-205 (40.10 acres), 107-0-130-135 (51.16 acres), 107-0-100-070 (80.00 acres), 107-0-100-105 (59.92 acres). Approximately 26 acres of the 225 acres, proposed for irrigation, are within the Agency boundary. The remaining 199 acres of the 225 acres to be irrigated is within the Expansion Area.

Discussion (including Background):

This well permit application is unusual in that it both proposes to irrigate previously un-irrigated acreage within the Lower Aquifer Outcrop area. It also proposes to irrigate outside of the Agency Boundary. Each of these areas contain acreage currently irrigated by Del Norte Mutual Water Company.

- Permitting wells for irrigation of acreage within the Agency boundary is fairly straight forward.
- Permitting wells that are to irrigate the Lower Aquifer Outcrop Zone (outcrop) is more complex and can be controversial. The Ordinance Code has language regarding protection of the aquifer outcrop.
- Permitting wells to irrigate lands outside the Agency boundary, in land referred to as the Expansion Area, is also complex.
- “Grandfathered” areas (include farming in both the outcrop and the expansion area) appear to be limited to areas irrigated up through 1988. Per the Ordinance Code, the overall acreage of these areas is not to expand. Data show this has occurred in some cases and a review of aerial photographs indicates that current farming exceeds the initial grandfathered area (approximately 61 acres) by 35 acres (96 acres).
- This proposed well permit would allow for export of water from within the Agency Boundary to outside the Agency Boundary. Section 5.2.2. of the Ordinance Code has special considerations, and would require the Board approval for the well permit.

Some expansion of farming has occurred since 1988 beyond what appears to have been grandfathered. Staff do not have an official Agency map recording the grandfathered areas, but base this on our interpretation of plantings that existed in 1989 (per aerial photograph). If so directed by your committee, staff can further investigate. This application proposes further expansion of farming outside of the grandfathered area. Approximately 128.4 acres of additional farming is now proposed.

A detailed breakdown of acreage based on two aerial photo sets and GIS measurement is listed below.

Below are a series of tables with data. The “Analysis of Current and Proposed Acreage” is a data table describing proposed changes in acreage and its location. The “Threshold Questions” table contains questions which staff feels need to be answered before it continues with evaluating the well permit. The “Important Considerations and Required Additional Evaluation” contains important issues for the Agency and is a “look ahead” of what will happen next if the Agency continued its review.

Analysis of Current and Proposed Acreage			
Location	2012 acreage	Proposed additional increase in irrigated acres	Proposed total acres as part of well permit
Inside Agency Boundary but Outside Outcrop Area	4	0	4
Inside Agency Boundary, but within the Outcrop Area	7.60	17.75	22
Outside the Agency Boundary, but within the Expansion Area	85	146	199

Total irrigated	96.6	163.75	225
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Threshold Questions		
Acres and Location	Ordinance Code considerations	Other Considerations
0 acres are proposed Inside Agency Boundary but Outside Outcrop Area	No change proposed- not applicable	Not applicable
17.5 acres are proposed Inside Agency Boundary, but within the Outcrop Area	<p>4.2.1.3.1. <i>Outcrop is not exposed to potential degradation of water quality...</i></p> <p>4.2.1.3.2. <i>Recharge from the outcrop is not diminished..</i></p>	<p>Is any new farming permitted in the Outcrop? If so, what evaluation is required?</p> <p>In the past, Agency staff have told well permit applicants that farming in the outcrop is not allowed. In recent years, some well permits were allowed to move forward.</p>
146 acres are proposed Outside the Agency Boundary, but within the Expansion Area	4.2.1.3.3. <i>Neither baseline nor efficiency will be used, directly or indirectly, to support groundwater use in the Expansion Area..</i>	<p>Is any new irrigation allowed? If so, what are the requirements?</p> <p>If a well permit were granted, because Mr. Carmichael does not have wells with any allocation it appears he would have to pay the surcharge rate for water. Resolution 2013-03 indicates the Tier III surcharge rate (\$2,065/acre foot) would be due. The proposed water use in this area is estimated at 2 acre feet per acre, or 292 af/year. The surcharge is estimated at \$602,980 per year.</p>

Important Considerations and Required Additional Evaluation		
Considerations	Ordinance Code considerations	Other Considerations
General Considerations	4.2.1.2.7. – Permit application review is to consider an analysis of potential impacts on the water balance and water quality.	If the Agency determines the permit review can go forward, this evaluation would then need to be made. In the vicinity of this proposed well permit, water levels are not clearly depressed below sea level like in the southern and eastern part of the basin.
	4.2.1.3.5. WLP Basin, the proposed extractions are not to interfere with attainment of basin management objectives	Water quality samples collected in much of the West Las Posas basin exceed the BMO for total dissolved solids

	or implementation of groundwater management strategies.	(TDS). The source of the TDS includes pumping-induced recharge from the Oxnard Forebay and Oxnard Plain Basin.
Export Issue- 146 acres in the Expansion Area	5.2.2.1. Permitting of direct or indirect export of groundwater extracted from within the Agency Boundary for use outside the Agency Boundary must be approved by the Board.	Approving this well permit proposal would cause export of groundwater. Your Board would be required to approve the permit.
	5.2.2.3.7. Analysis of the potential impacts on the water balance in WLP Basin.	The 2012 reported 2012 WLP basin extractions are 13,748.120 acre feet. The proposed increased is approximately 3% higher. Additional staff analysis would be necessary.
	<p>5.2.2.4. Findings - The Board may approve the proposed use if, after a public hearing, it finds that the proposed use will result in <u>no net detriment</u> to the Basin, or any subbasin, or aquifer associated with the use, by determining that:</p> <p>5.2.2.4.1. The proposed use does not result in the material degradation of water quality of any type.</p> <p>5.2.2.4.2. Recharge to any aquifer within the agency is not materially diminished.</p>	<p>Section 5.2.2.4.1. and 5.2.2.4.2. are similar or related to:</p> <p>4.2.1.3.1. 4.2.1.3.2. 4.2.1.2.7. 4.2.1.3.5.</p>

Conclusion:

A number of concerns have been identified. We are looking for direction on whether to proceed with reviewing the application in more detail, or denying the application.

Applicable Ordinance Code Sections:

Section 4.2.1 Extraction Facility Permits.

Section 4.2.1.1. Permit Required - Prior to either: (a) initiating any new or increased use of groundwater in the Expansion area, obtained from any source within the Agency, including the Expansion area or (b) constructing a new or replacement extraction facility in the Las Posas Basin Management Area, or the Expansion area, a permit must be obtained from the Agency as provided in this Chapter. For the purpose of this Chapter, a new or increased use is that which did not exist or occur before June 30, 1988.

Section 4.2.1.2. Permit Application - Application shall be made in accordance with the requirements set forth in Section 2.1.1 and shall include all information required by the County Well Ordinance and the following:

Section 4.2.1.2.6. An identification of the source of historical allocation to supply the proposed water use by the well.

Section 4.2.1.2.7. An analysis of the potential impacts on the water balance and water quality in the Las Posas Basin Management Area resulting from the proposed use(s).

Section 4.2.1.3. Findings - A permit may only be granted if the Executive Officer finds that the proposed groundwater use will result in no net detriment to the Las Posas Basin Management Area by determining that:

Section 4.2.1.3.1. The Las Posas outcrop is not exposed to potential degradation of water quality of any type.

Section 4.2.1.3.2. Recharge to the Las Posas Basin Management Area from the Las Posas outcrop is not diminished.

Section 4.2.1.3.3. Neither baseline nor efficiency allocation will be used, directly or indirectly, to support groundwater use on the Expansion Area (an example of indirect use is using efficiency to supply a demand inside the Agency and using the replaced historical allocation on the outcrop).

Section 4.2.1.3.5. [Operative Until Adoption of the Las Posas Basin-Specific Groundwater Management Plan] For extraction facilities located in the West Las Posas Basin, the proposed extraction will not interfere with attainment of basin management objectives or implementation of groundwater management strategies for the West Las Posas Basin identified in the Groundwater Management Plan, including, but not limited to, efforts to stabilize or raise groundwater elevations in the pumping depression identified in the Groundwater Management Plan.

Section 5.2.2. General Limitations: Special Board Approval Requirements - Notwithstanding any other provisions of this Ordinance Code, the following uses of water resources associated with the aquifers within the Agency may only be undertaken with prior Board approval of and subject to the conditions and restrictions established by the Board.

Section 5.2.2.1. Direct or indirect export of groundwater extracted from within the Agency Boundary for use outside the Agency Boundary.

Section 5.2.2.3. Application to the Board - To obtain the approval of the Board for any use provided in Sections 5.2.2.1 and 5.2.2.2, application shall be made to the Agency describing the details of the proposed use, including all the following information:

Section 5.2.2.3.7. An analysis of the potential impacts on the water balance in any Basin or Subbasin within the Agency Boundaries resulting from the proposed use(s).

Section 5.2.2.4. Findings - The Board may approve the proposed use if, after a public hearing, it finds that the proposed use will result in no net detriment to the Basin, or any subbasin, or aquifer associated with the use, by determining that:

Section 5.2.2.4.1. The proposed use does not result in the material degradation of water quality of any type, or

Section 5.2.2.4.2. Recharge to any aquifer within the Agency is not materially diminished

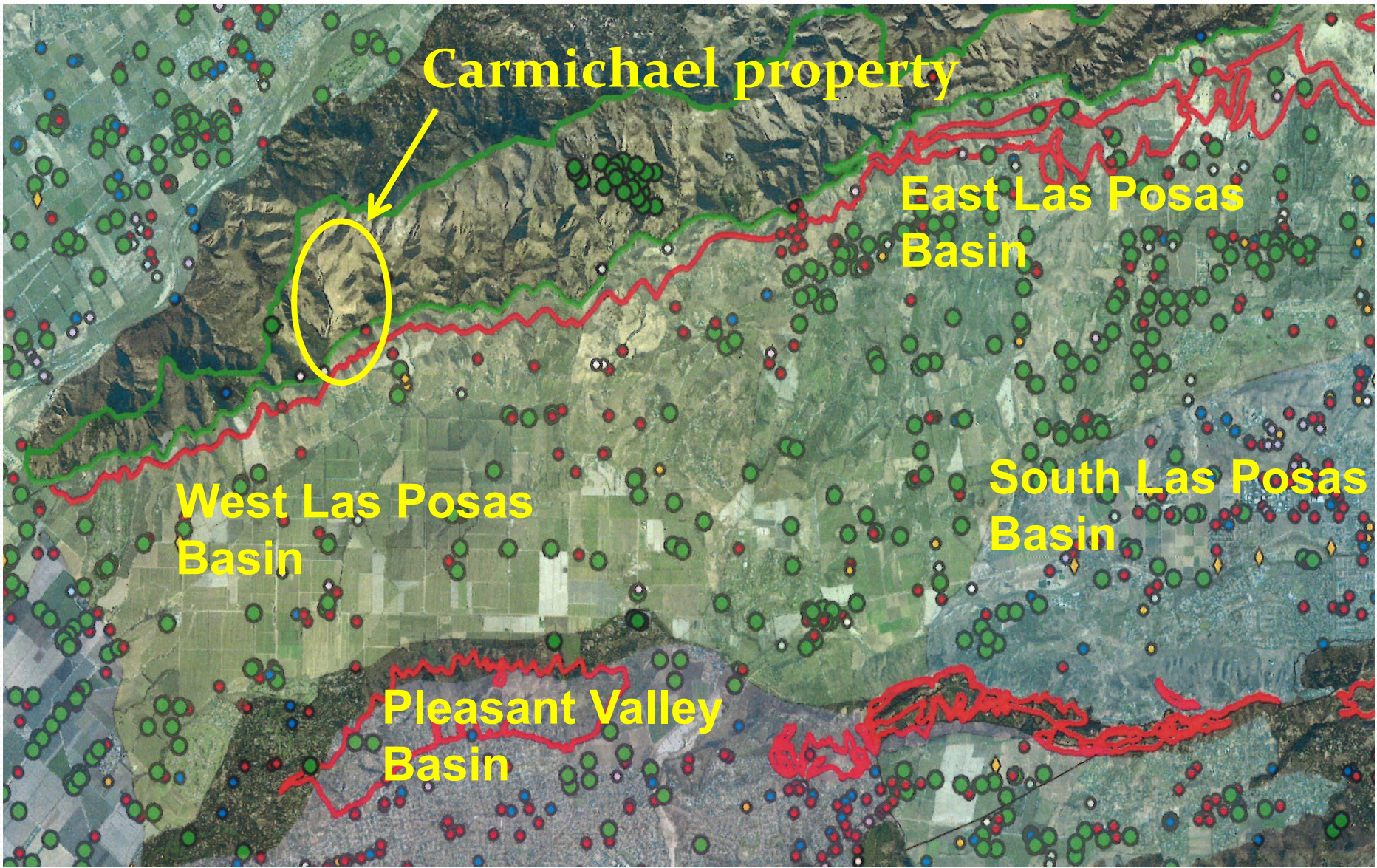
Application for Well Permit, Carmichael Property

Kathleen Riedel, P.G., C.E.G.
Groundwater Specialist
Watershed Protection District



Introduction

- Well application submitted September 10, 2013
- Additional information provided September 17, 2013
- Proposed well is to irrigate 225 acres
(100 acres of avocado trees, 75 acres of lemon trees and 50 acres of hay)



Carmichael property

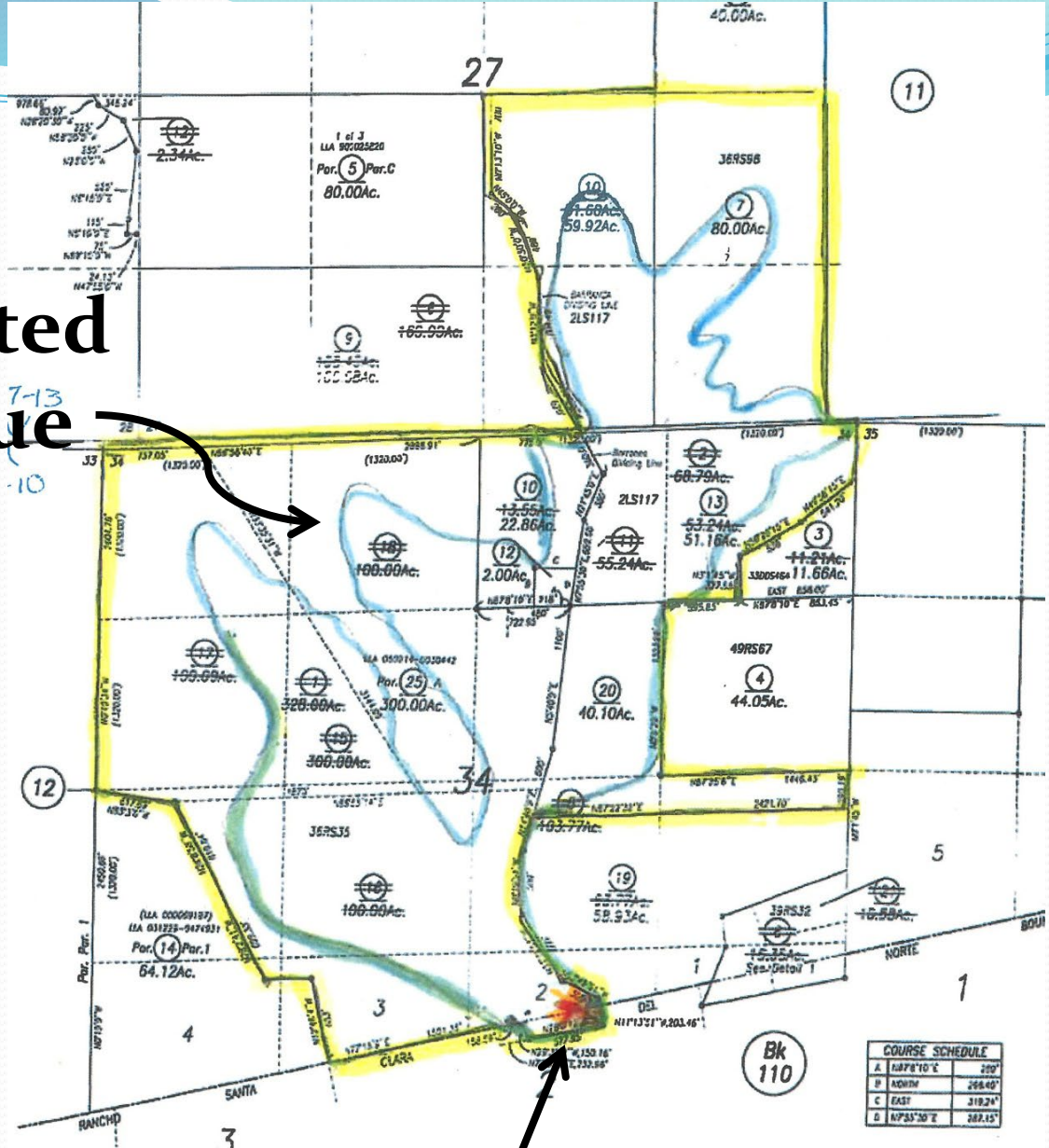
East Las Posas Basin

West Las Posas Basin

South Las Posas Basin

Pleasant Valley Basin

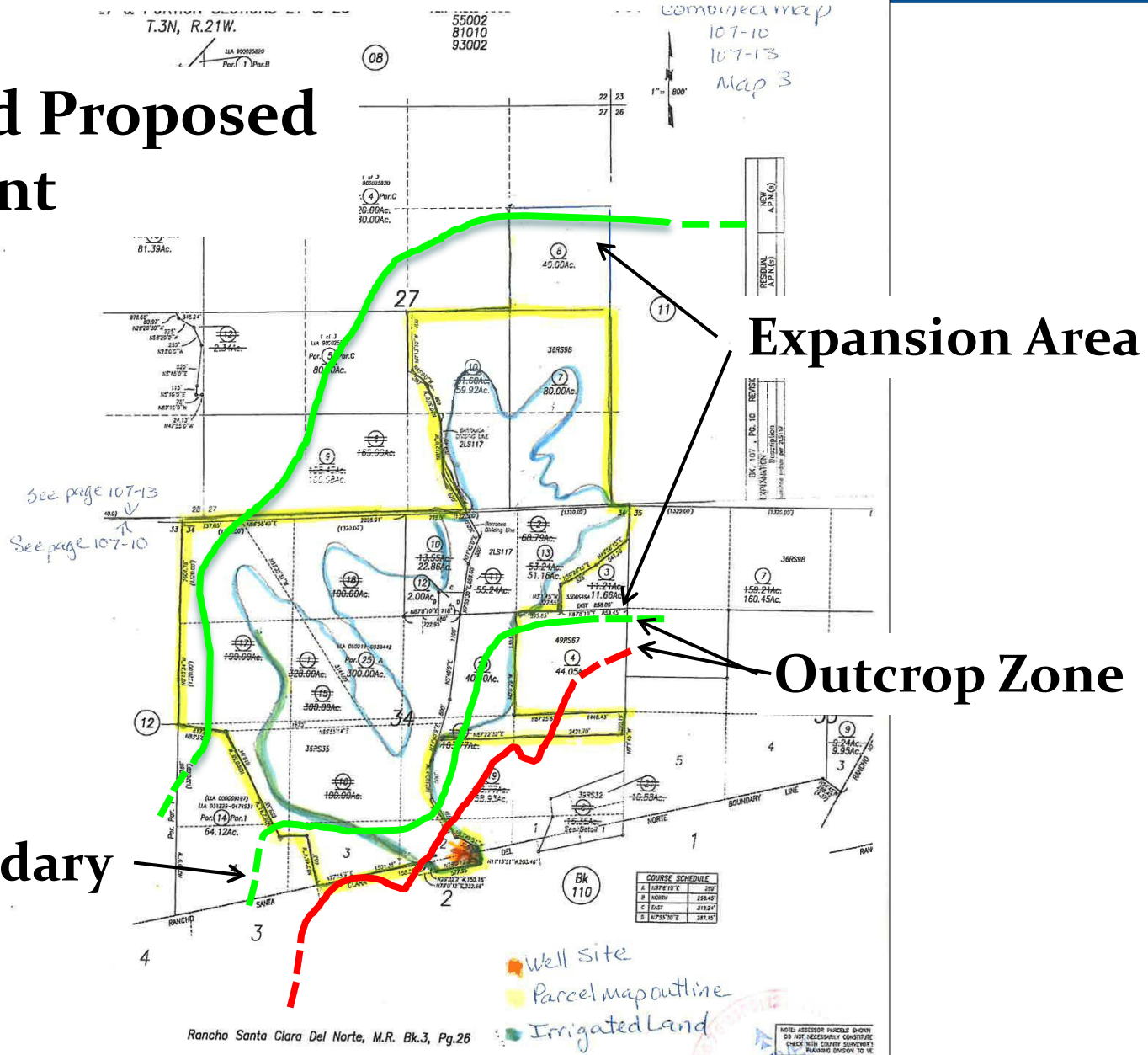
Area to be irrigated is outlined in blue



Proposed Well Location

- Well site
- Parcel map outline
- Irrigated Land

Existing and Proposed Development

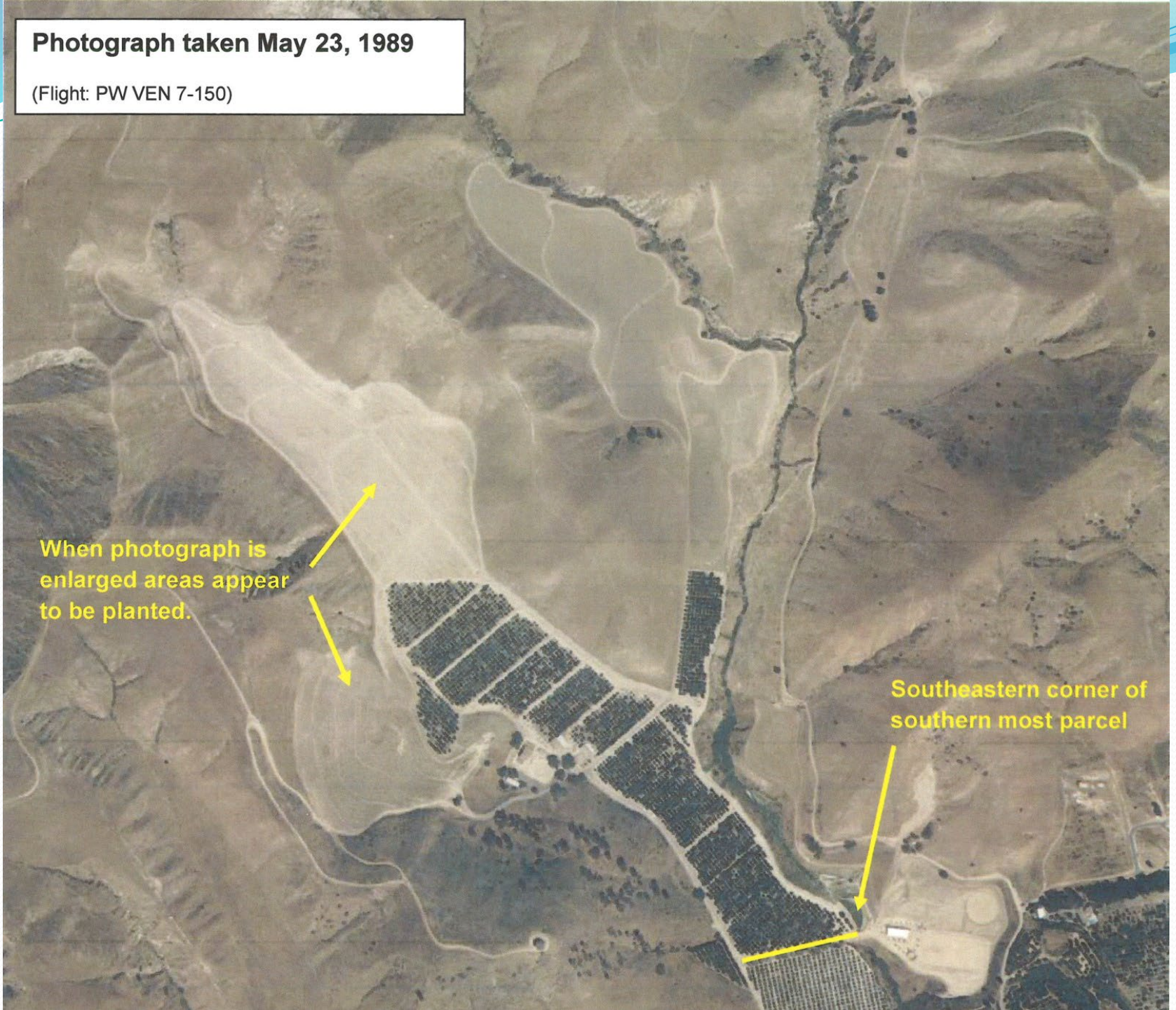


Photograph taken May 23, 1989

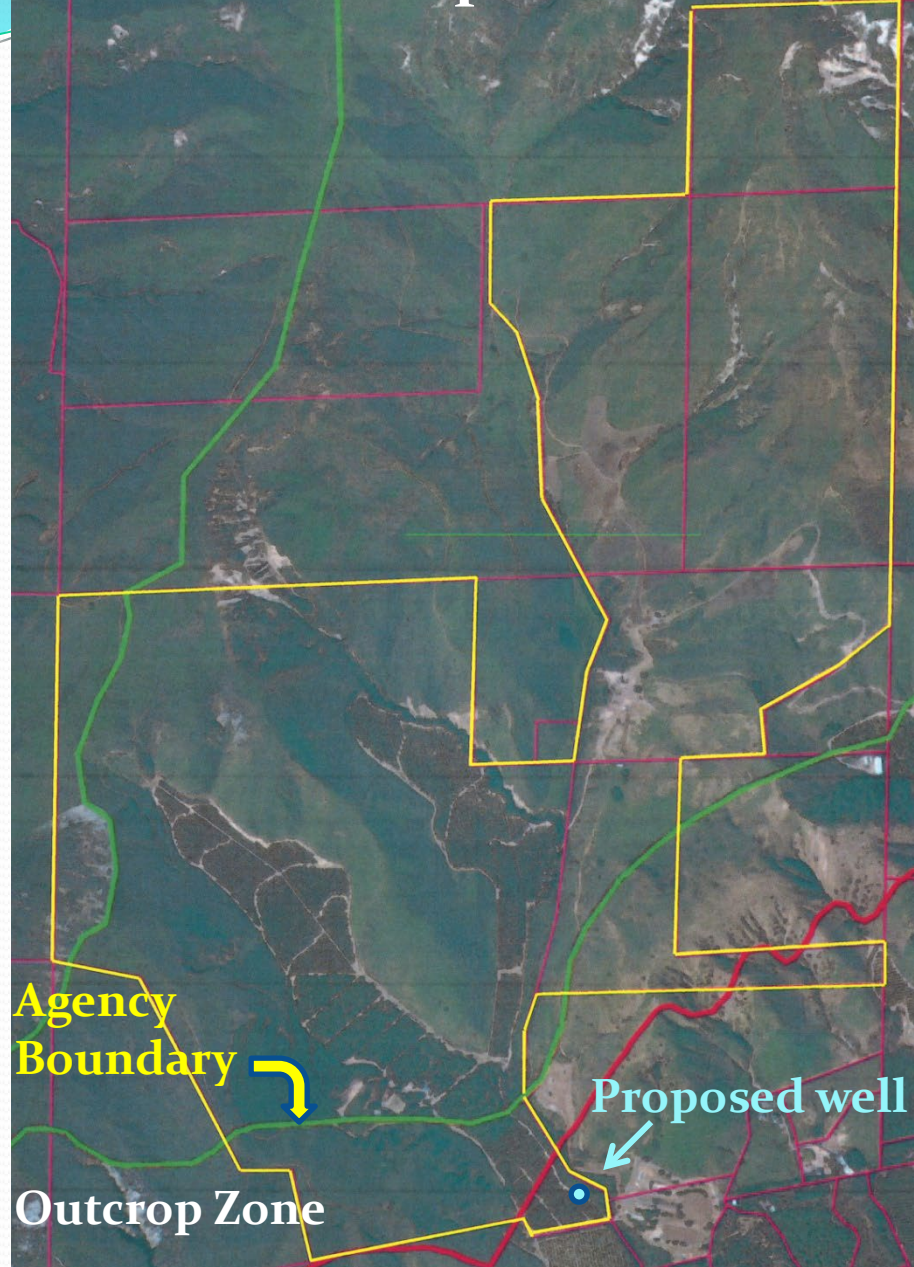
(Flight: PW VEN 7-150)

When photograph is enlarged areas appear to be planted.

Southeastern corner of southern most parcel



Expansion Area

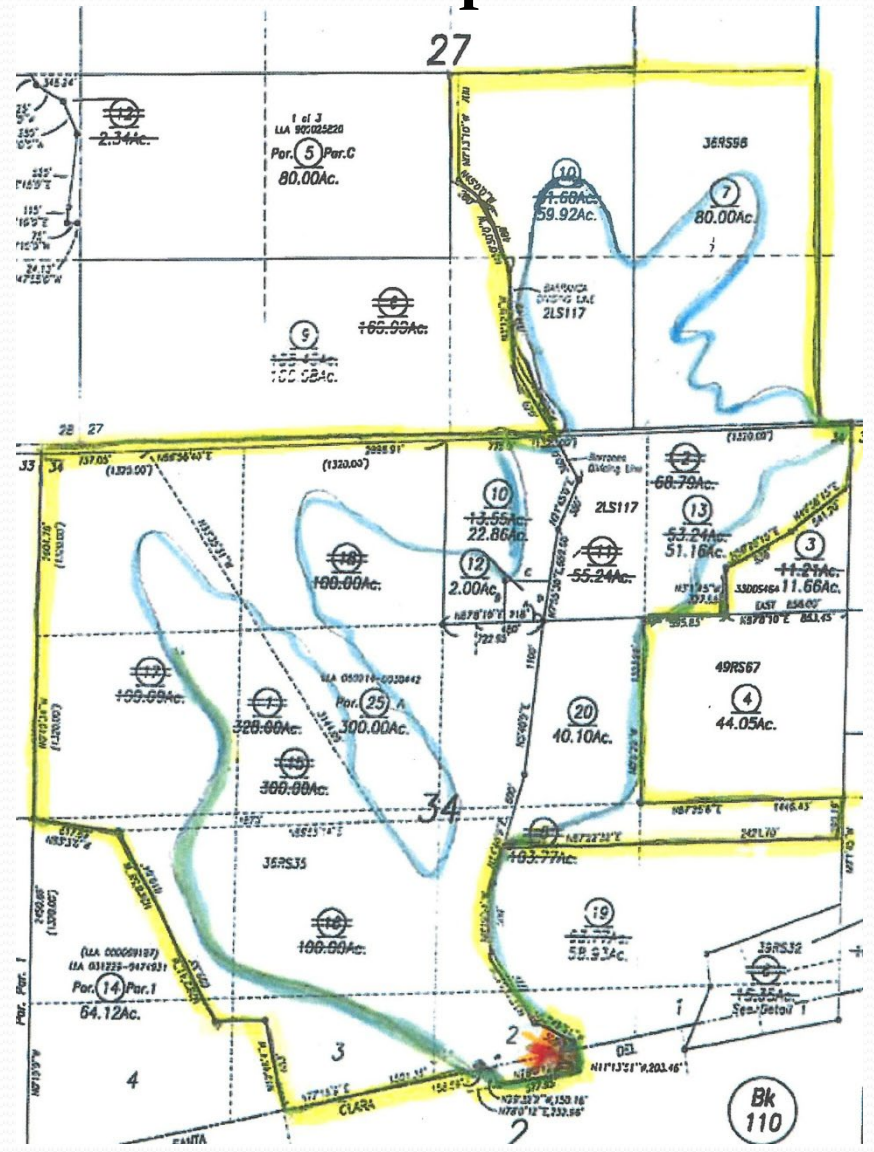


Agency Boundary

Proposed well

Outcrop Zone

Existing and Proposed Development



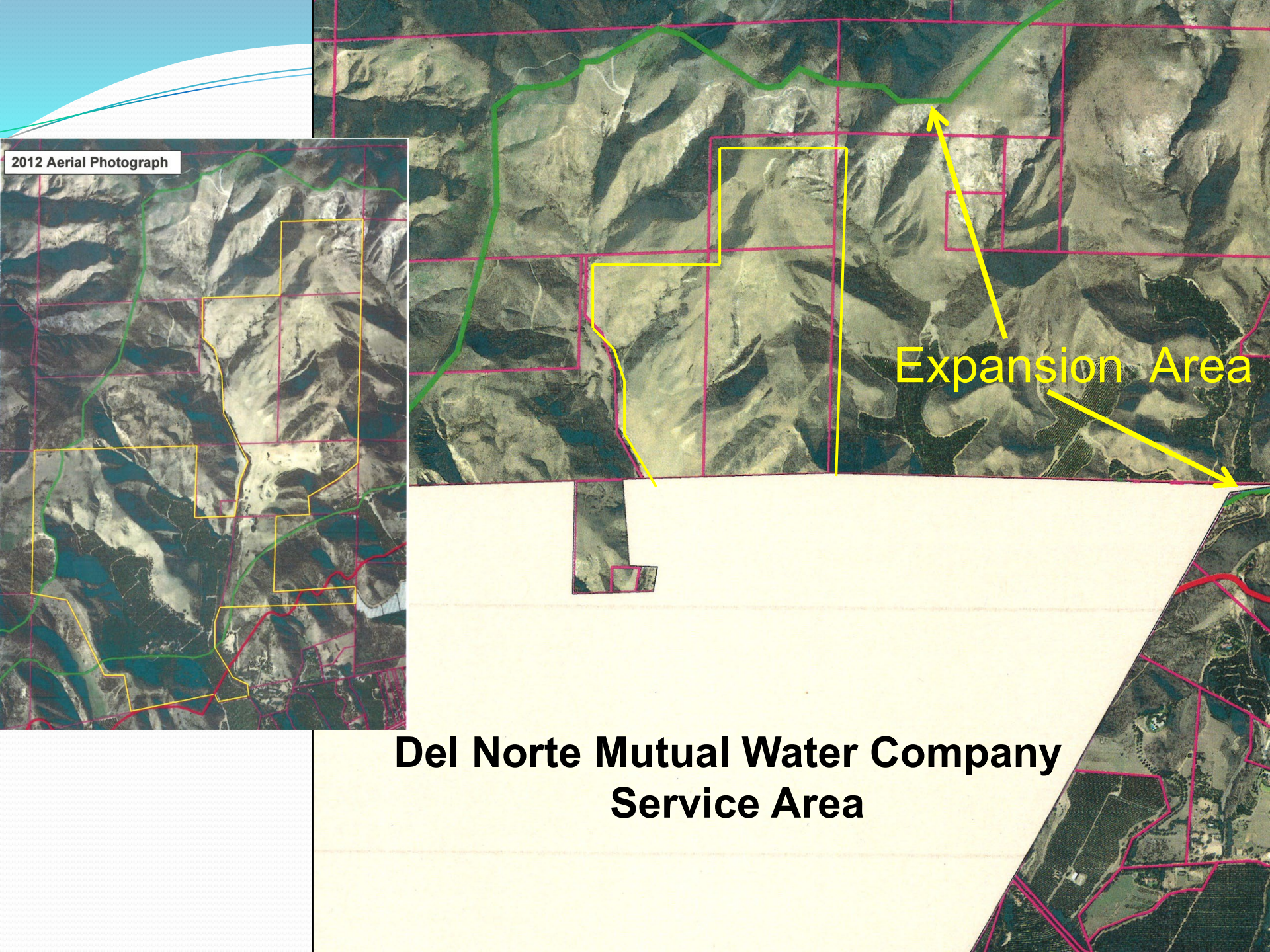
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Discussion

Analysis of Current and Proposed Acreage

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Inside Agency Boundary, but within the Outcrop Area	7.60	17.75	22
Outside the Agency Boundary, but within the Expansion Area	85	146	199
Total irrigated	96.6	163.75	225

2012 Aerial Photograph



Expansion Area

**Del Norte Mutual Water Company
Service Area**

Discussion

- This well application is unusual in that it proposes:
 1. Irrigating grandfathered acreage and new acreage in the Outcrop Area;
 2. Irrigating grandfathered acreage, and new acreage both inside and outside the Del Norte Mutual Water Company service area, in the Expansion Area.

Threshold Questions – Outcrop

Ordinance Code Considerations

- 4.2.1.3.1. *Outcrop is not exposed to potential degradation of water quality...*
- 4.2.1.3.2. *Recharge from the outcrop is not diminished..*

Other Considerations

- **Is any new farming permitted in the Outcrop? If so, what evaluation is required?**
- In the past, Agency staff have told well permit applicants that farming in the outcrop is not allowed. In recent years, some well permits were allowed to move forward.

Threshold Questions – Expansion Area

Ordinance Code Considerations

- *4.2.1.3.3. Neither baseline nor efficiency will be used, directly or indirectly, to support groundwater use in the Expansion Area..*

Other Considerations

- **Is any new irrigation allowed? If so, what are the requirements?**
- If a well permit were granted, it appears Mr. Carmichael would have to pay the surcharge rate for water. Resolution 2013-03 indicates the Tier III surcharge rate (\$2,065/acre foot) would be due. The surcharge is estimated at \$602,980 per year.

Important Considerations

Ordinance Code

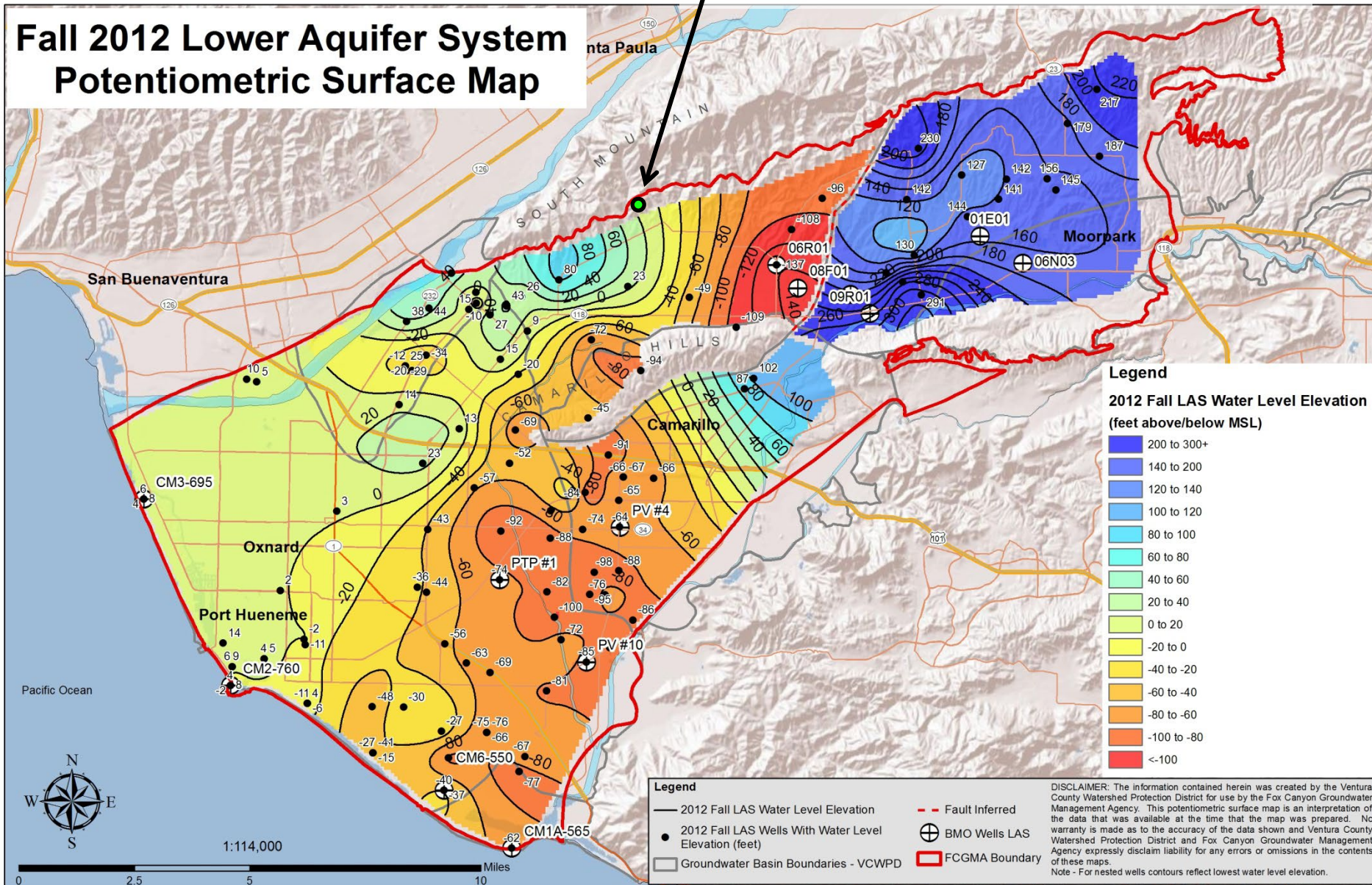
4.2.1.2.7. – Permit application review is to consider an analysis of potential impacts on the water balance and water quality.

Other

- If the Agency determines the permit review can go forward, this evaluation would then need to be made.

Proposed well location

Fall 2012 Lower Aquifer System Potentiometric Surface Map



Important Considerations

Ordinance Code

4.2.1.3.5. WLP Basin,
..the proposed extraction will not to interfere with attainment of basin management objectives or implementation of groundwater management strategies
...

Other

- Water quality samples collected in much of the West Las Posas basin exceed the BMO for total dissolved solids (TDS). The source of the TDS includes pumping-induced recharge from the Oxnard Forebay and Oxnard Plain Basin.
- Additional staff analysis would be necessary.

Important Considerations

Ordinance Code

5.2.2.1. Permitting of *direct or indirect export of groundwater extracted from within the Agency Boundary for use outside the Agency Boundary* must be approved by the Board.

Other

- Approving this well permit proposal would cause export of groundwater. Your Board would be required to approve the permit.

Important Considerations

Ordinance Code

5.2.2.3.7. An analysis of the potential impacts on the water balance in WLP Basin.

Other

- The 2012 reported 2012 WLP basin extractions are 13,748.120 acre feet. The proposed increased is approximately 3% higher.
- Additional staff analysis would be necessary.

Important Considerations

Ordinance Code Considerations

- *5.2.2.4. Findings - The Board may approve the proposed use if, after a public hearing, it finds that the proposed use will result in no net detriment to the Basin, or any subbasin, or aquifer associated with the use, by determining that:*
- *5.2.2.4.1. The proposed use does not result in the material degradation of water quality of any type, or*
- *5.2.2.4.2. Recharge to any aquifer within the agency is not materially diminished.*

Other Considerations

- **Section 5.2.2.4.1. and 5.2.2.4.2. are similar or related to:**
- **4.2.1.3.1.**
- **4.2.1.3.2.**
- **4.2.1.2.7.**
- **4.2.1.3.5.**

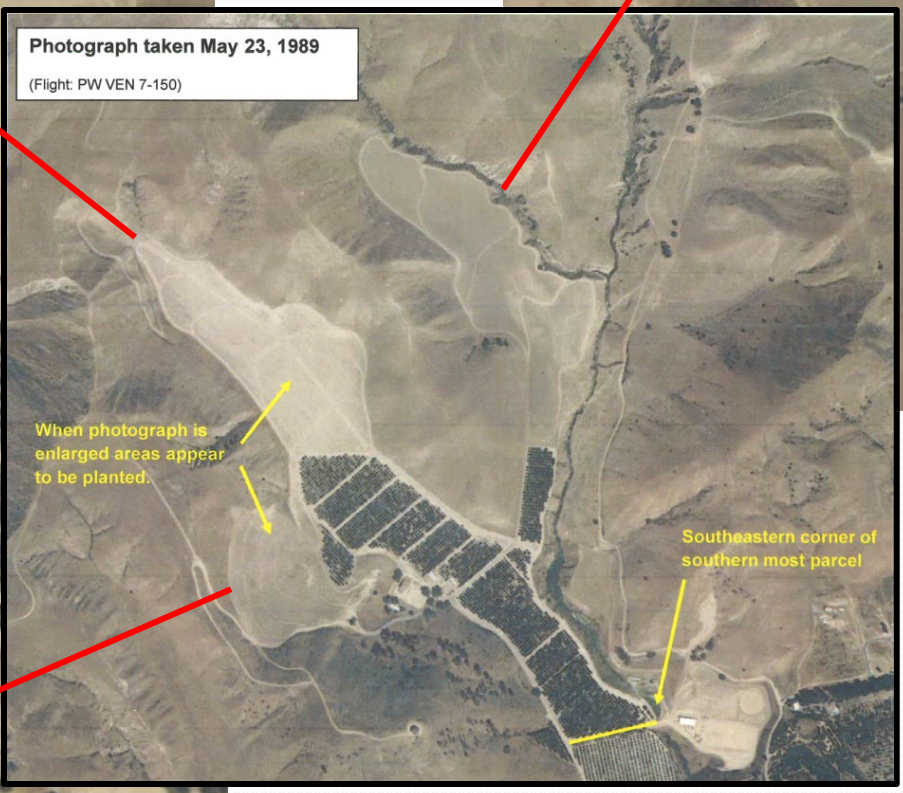
Conclusion

- A number of concerns have been identified.
- **Policy Implications:**
- Specifically in the case of new well permits, should the Agency allow farming in the aquifer outcrop using water supply from new wells and if so, under what certain circumstances?
- Specifically in the case of new well permits, should landowners be allowed to expand water use in the Expansion area, and what should be the requirements for allowing it (i.e. paying the surcharge rate)?

Conclusion

- Agency Staff is requesting direction on whether to proceed with reviewing the application in more detail, or denying the application.

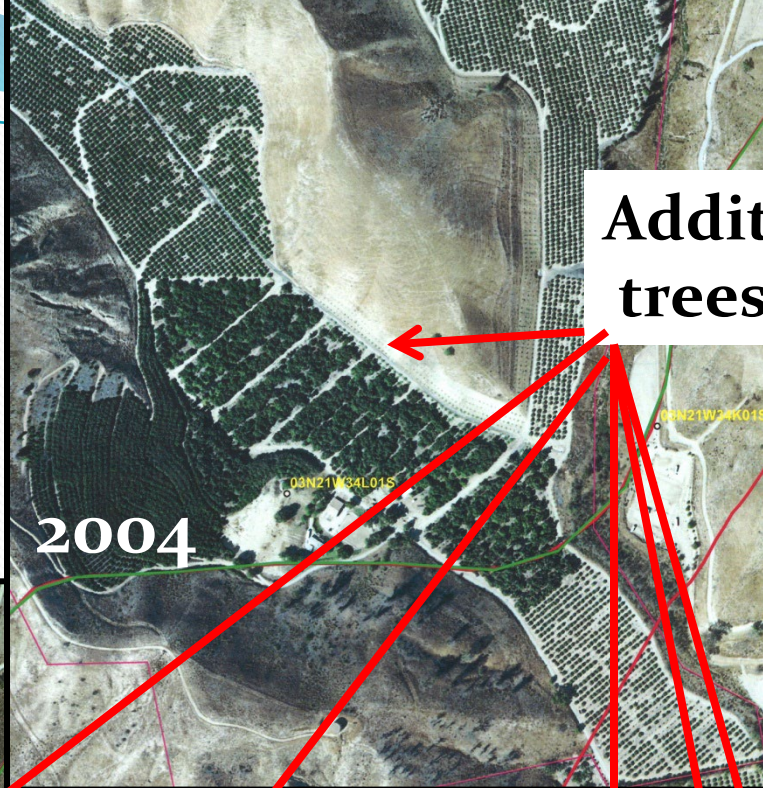




2003



2004

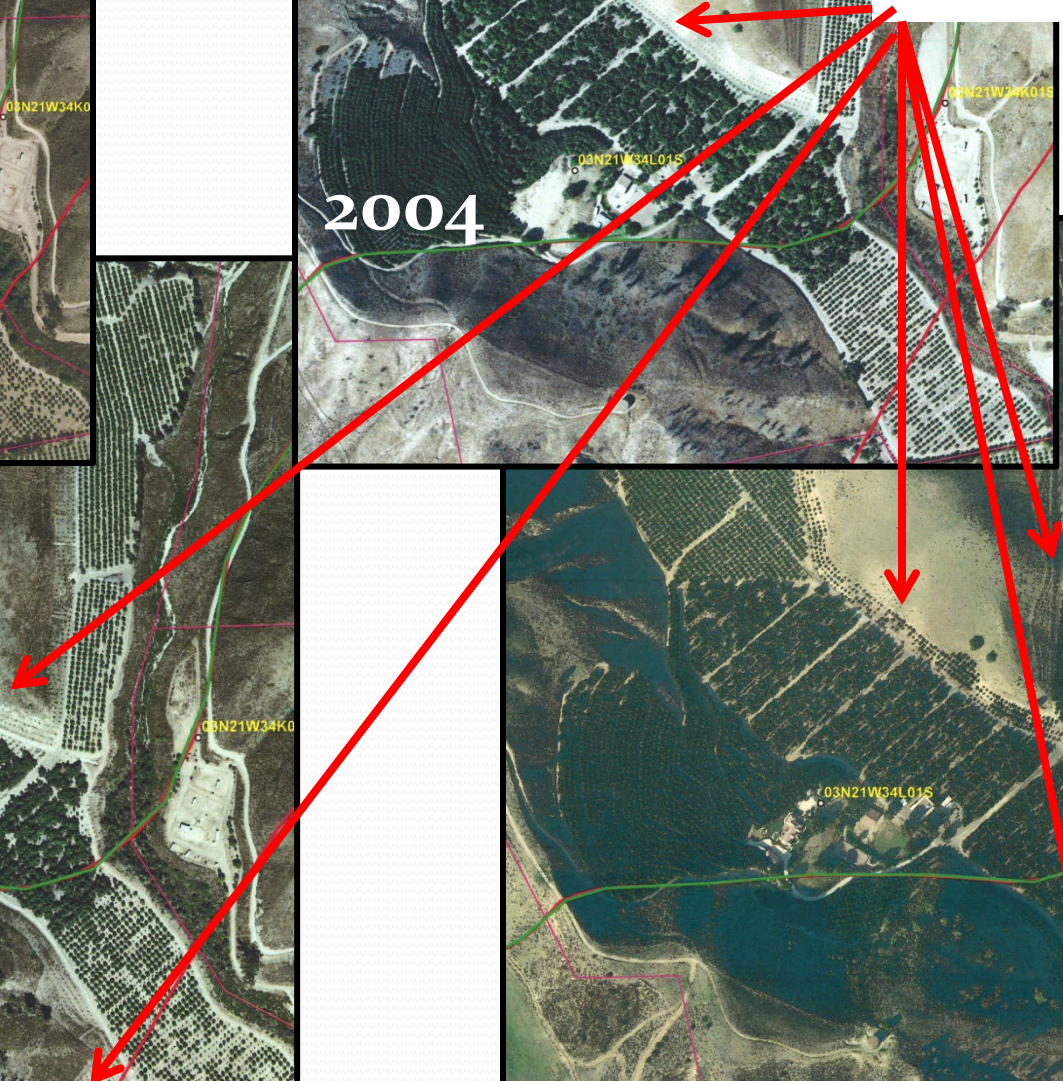
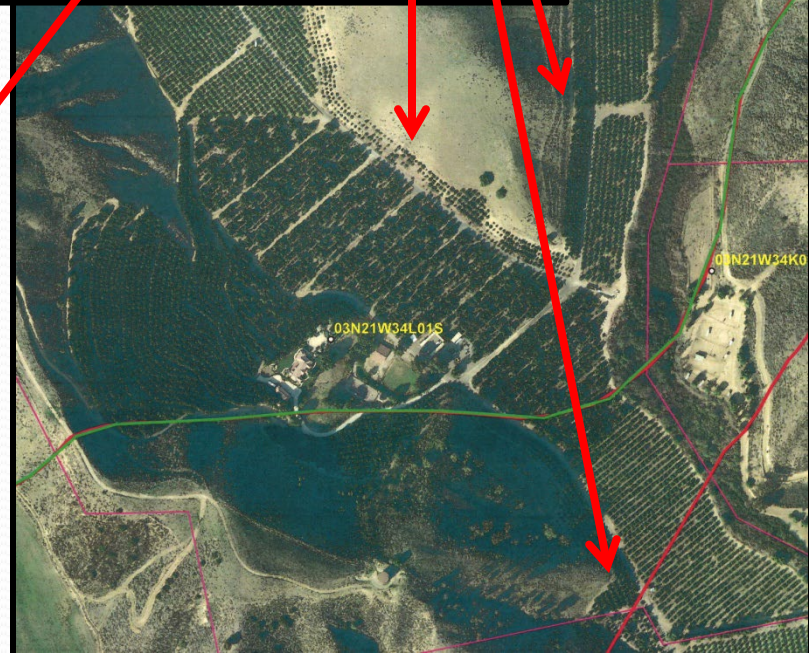


**Additional
trees planted**

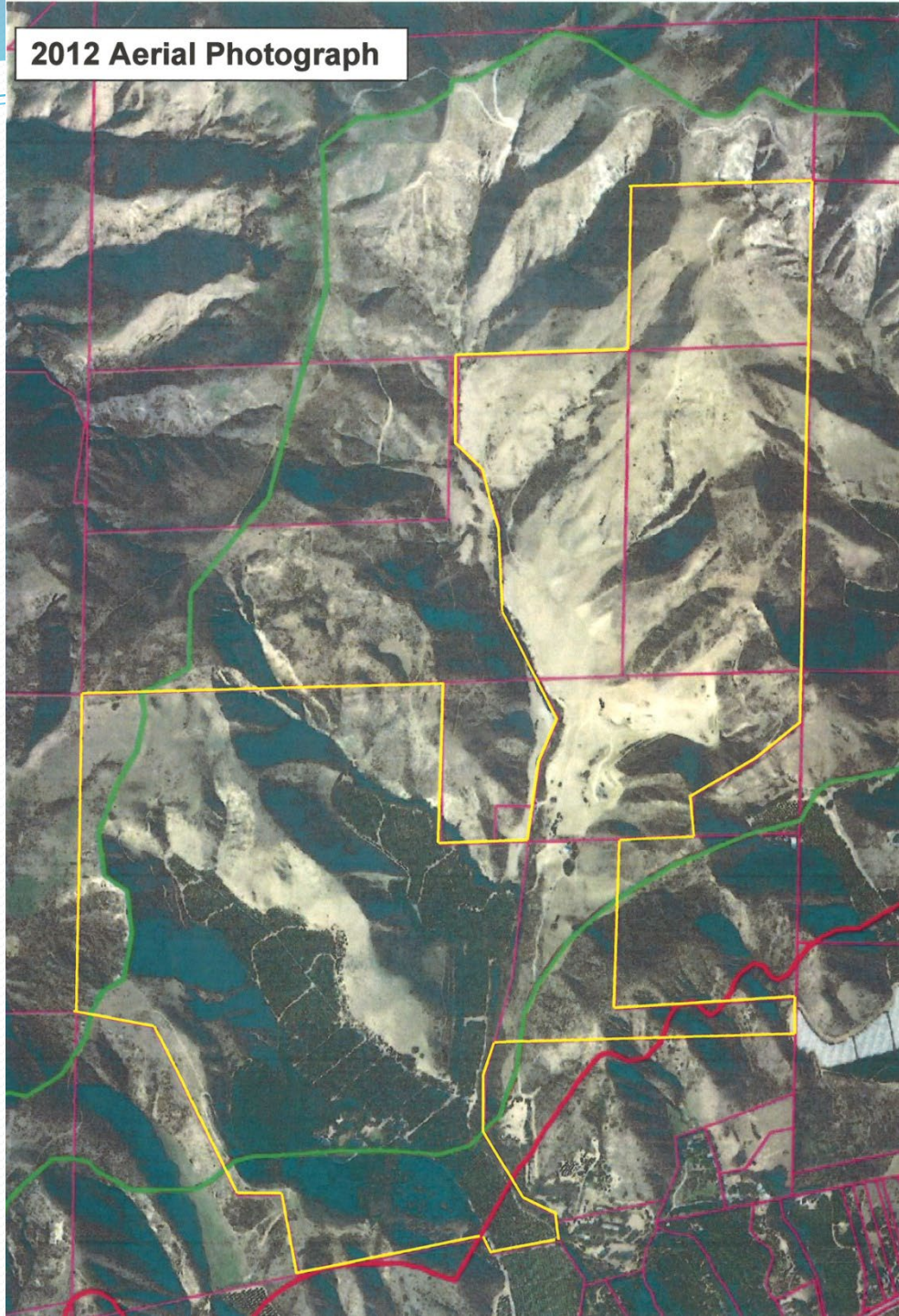
2012



2005



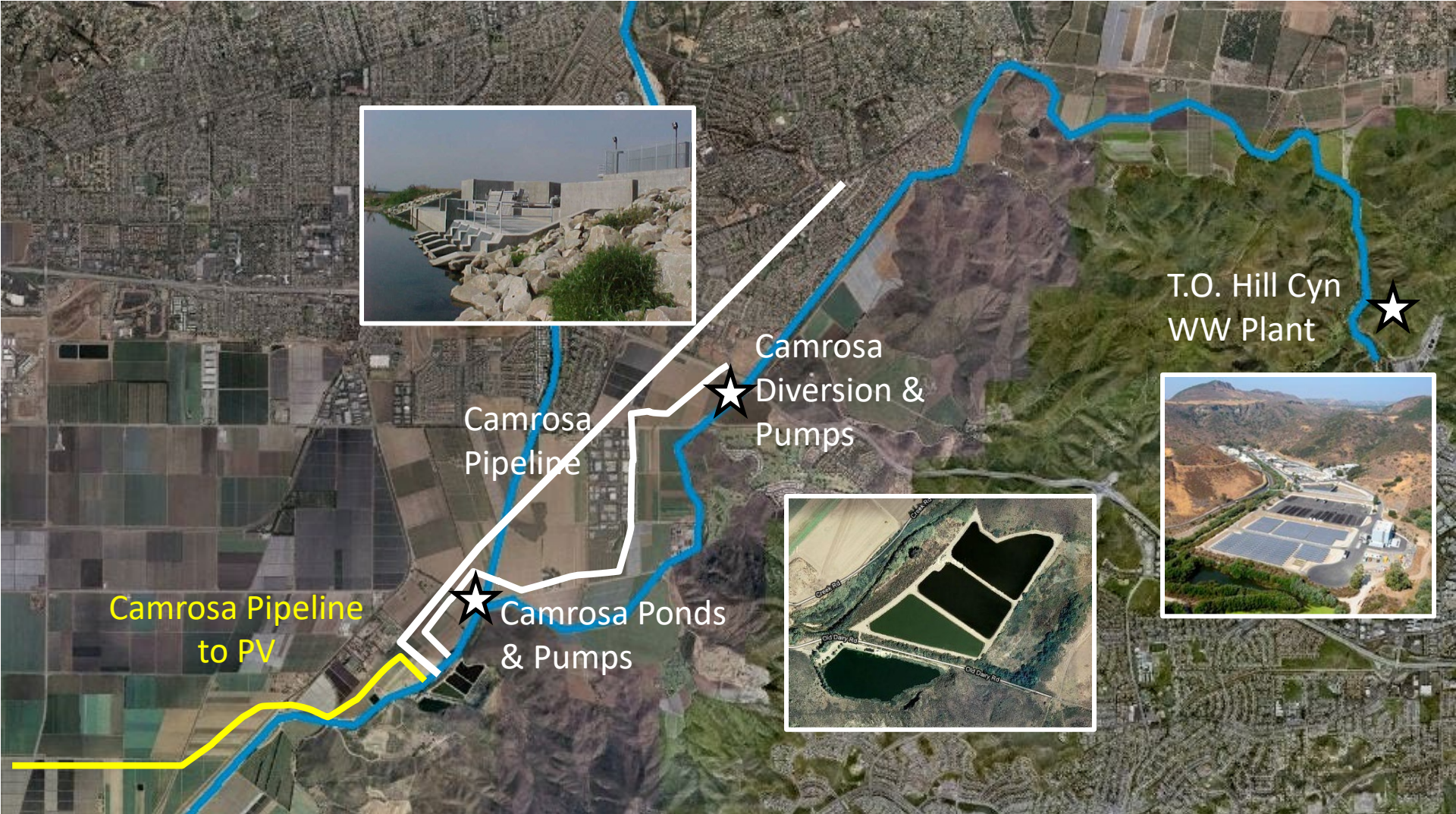
2012 Aerial Photograph



Conejo Creek Project

January 21, 2014

Conejo Creek Project Facilities



T.O. Hill Cyn
WW Plant



Camrosa
Diversion &
Pumps

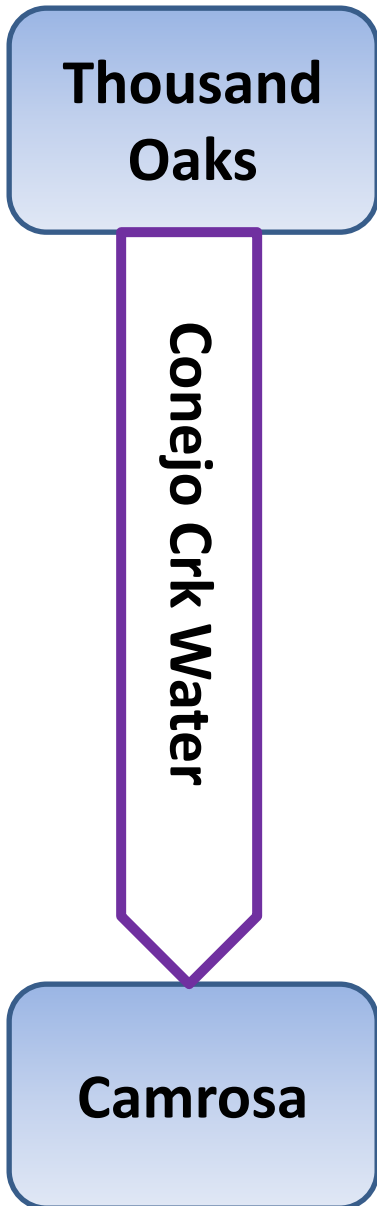


Camrosa
Pipeline

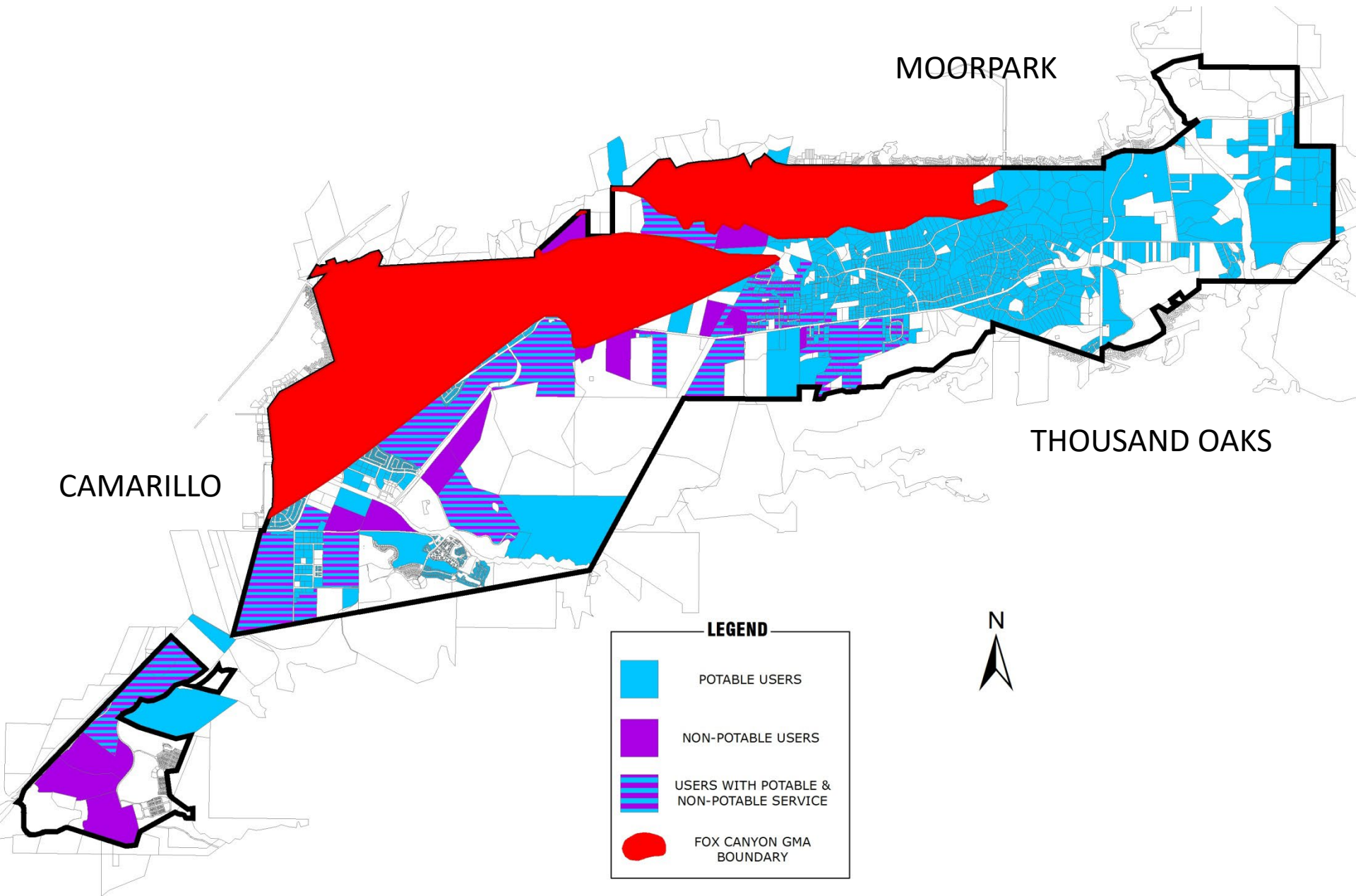
Camrosa Ponds
& Pumps

Camrosa Pipeline
to PV

Bottom-line



- **Camrosa has right to 100% of Conejo Crk water.**
- **What does Camrosa do with excess water?**
 - **Establish a PV agreement?**
 - or**
 - **Use excess in Santa Rosa Basin (outside GMA)?**
- **Key Decision Element.**
 - **Credits/Pumping Allocation to Camrosa**







MOORPARK

THOUSAND OAKS

CAMARILLO

LEGEND

-  POTABLE USERS
-  NON-POTABLE USERS
-  USERS WITH POTABLE & NON-POTABLE SERVICE
-  FOX CANYON GMA BOUNDARY



Camrosa Import Into the FCGMA

5000 AF of Conejo Creek Water delivered to PV

1800 AF of Conejo Creek Water (in addition to PV deliveries)

3700 AF of Potable Water

10,500 AF of Total Import to FCGMA

(800) AF pumped from Woodcreek

9,700 AF Net import to FCGMA

Notes:

- **Camrosa has offered 5 yr sunset clause**
- **If GMA does not approve this agreement:**
 - **Camrosa will work to utilize excess water within SR Basin (outside FCGMA)**
 - **Once Camrosa utilizes excess – it is gone**
 - **Calleguas will continue to bank credits for next 14yrs without a sunset clause**
- **Calleguas/PV agreement terminates once Camrosa & PV establish agreement**

Thank You



Pond Pump Station



PV

5000 AF

Camrosa NP

5000 AF

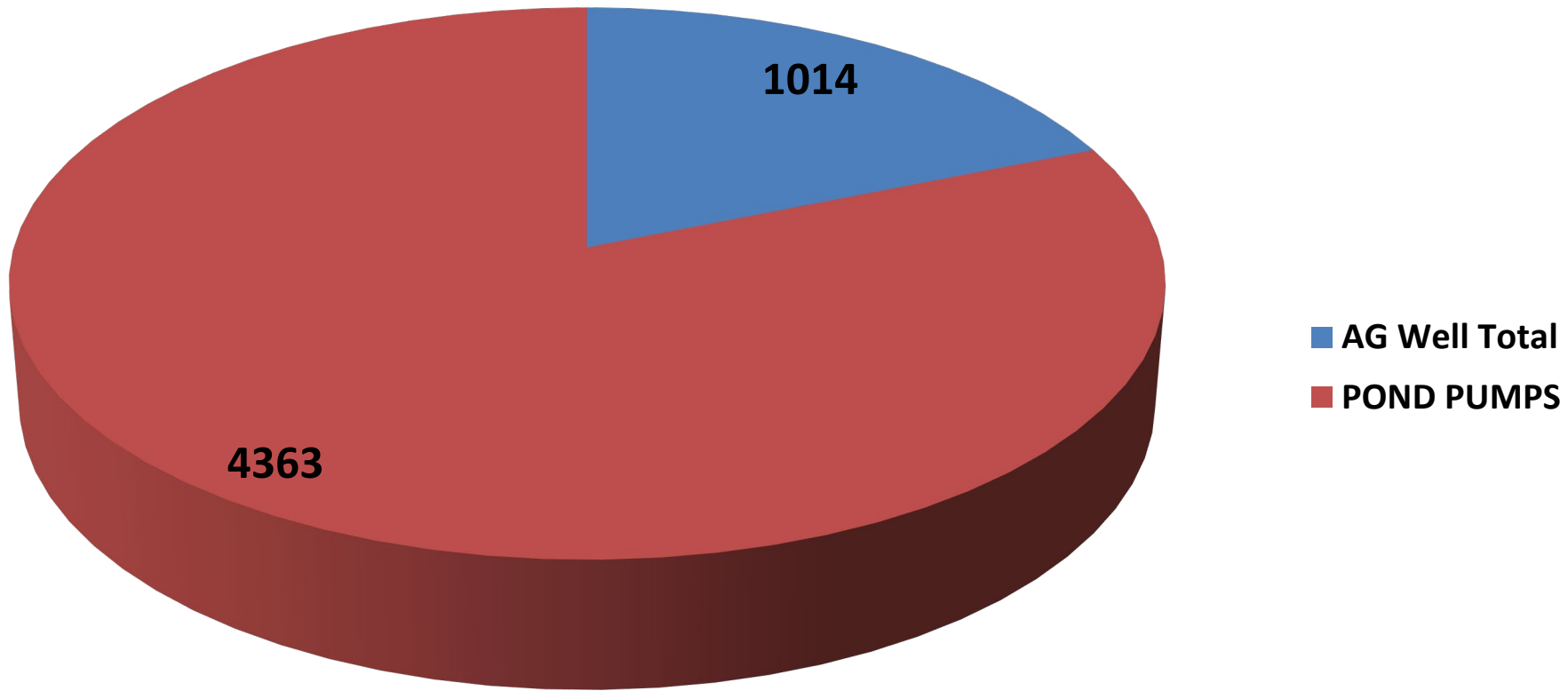
Creek Rd

Old Dairy Rd

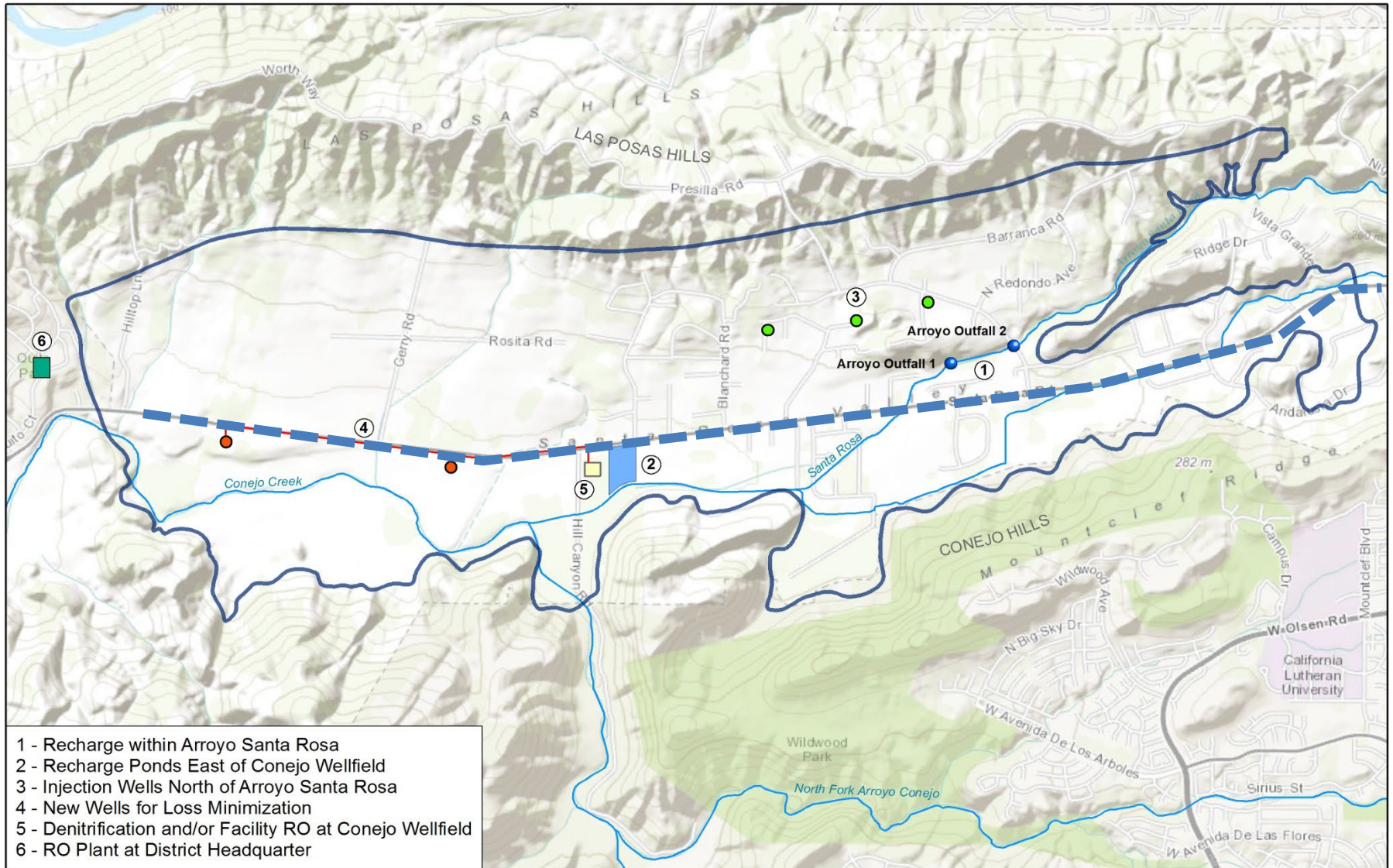
Image U.S. Geological Survey
© 2011 Google



2012 NP Demand







- 1 - Recharge within Arroyo Santa Rosa
- 2 - Recharge Ponds East of Conejo Wellfield
- 3 - Injection Wells North of Arroyo Santa Rosa
- 4 - New Wells for Loss Minimization
- 5 - Denitrification and/or Facility RO at Conejo Wellfield
- 6 - RO Plant at District Headquarter

Key to Features

- | | | |
|-----------------------------------|---|--|
| Recharge within Arroyo Santa Rosa | City Boundaries | New Pipeline for Loss Minization |
| New Wells for Loss Minization | Santa Rosa Valley Groundwater Basin | Injection Well Area |
| Potential Injection Wells | Watershed | Denitrification and/or Facility RO at Conejo Wellfield |
| | Recharge Ponds East of Conejo Wellfield | RO Plant at District Headquarter |

0 0.25 0.5 Miles

Document: \\uspas1s01\Camrosa Water District\Santa Rosa GMP (10500900)\14 e-data_modeling_MXDs\PotentialProjects.mxd

**Santa Rosa Basin
Potential Groundwater Projects**

MWH

Figure 5-1

Santa Rosa Basin Plan Components (outside FCGMA)

- Groundwater Related Projects
 - Recharge Basin East of Conejo Wellfield
 - Recharge within on Arroyo Santa Rosa
 - Injection Wells
 - Western Extension of the Conejo Wellfield
 - Desalination of Groundwater (and possibly Denitrification)

PENNY WELL - DISCHARGED WATER



8/27/2013



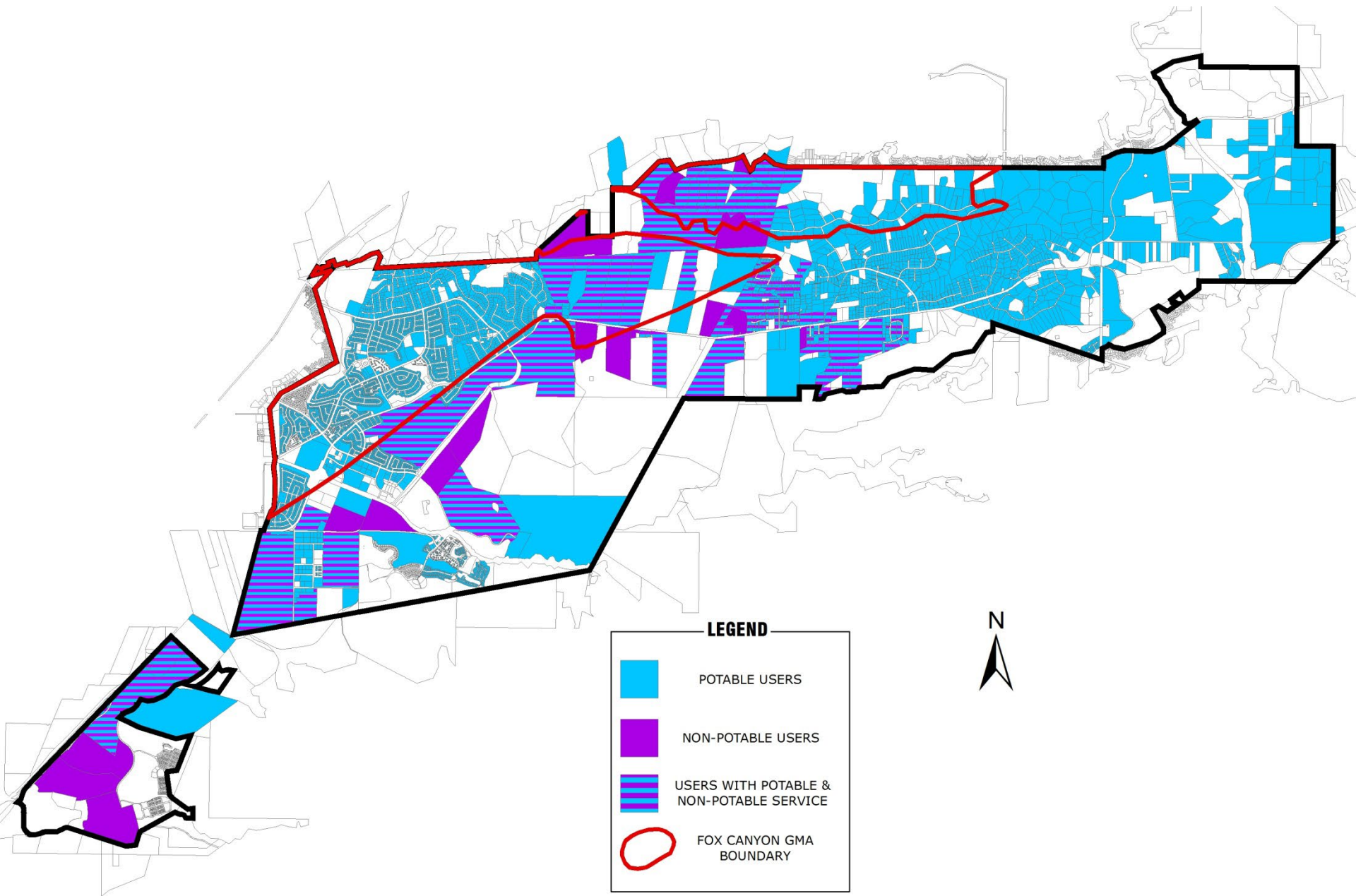
CWD

© 2013 Google





Google earth

1989

Imagery Date: 8/26/2012 34°13'56.75" N 118°56'27.73" W elev 215 ft eye alt 13477 ft



LEGEND

-  POTABLE USERS
-  NON-POTABLE USERS
-  USERS WITH POTABLE & NON-POTABLE SERVICE
-  FOX CANYON GMA BOUNDARY

Excess Conejo Creek Water

- Leave NP distribution/irrigation as-is and use excess NP water for:
 - a) Delivery to PV and Receive Credits
 - b) Recharge SR Basin (outside GMA)
 - c) Reuse in SR Basin (outside GMA)
- Expand Camrosa's NP Irrigation system

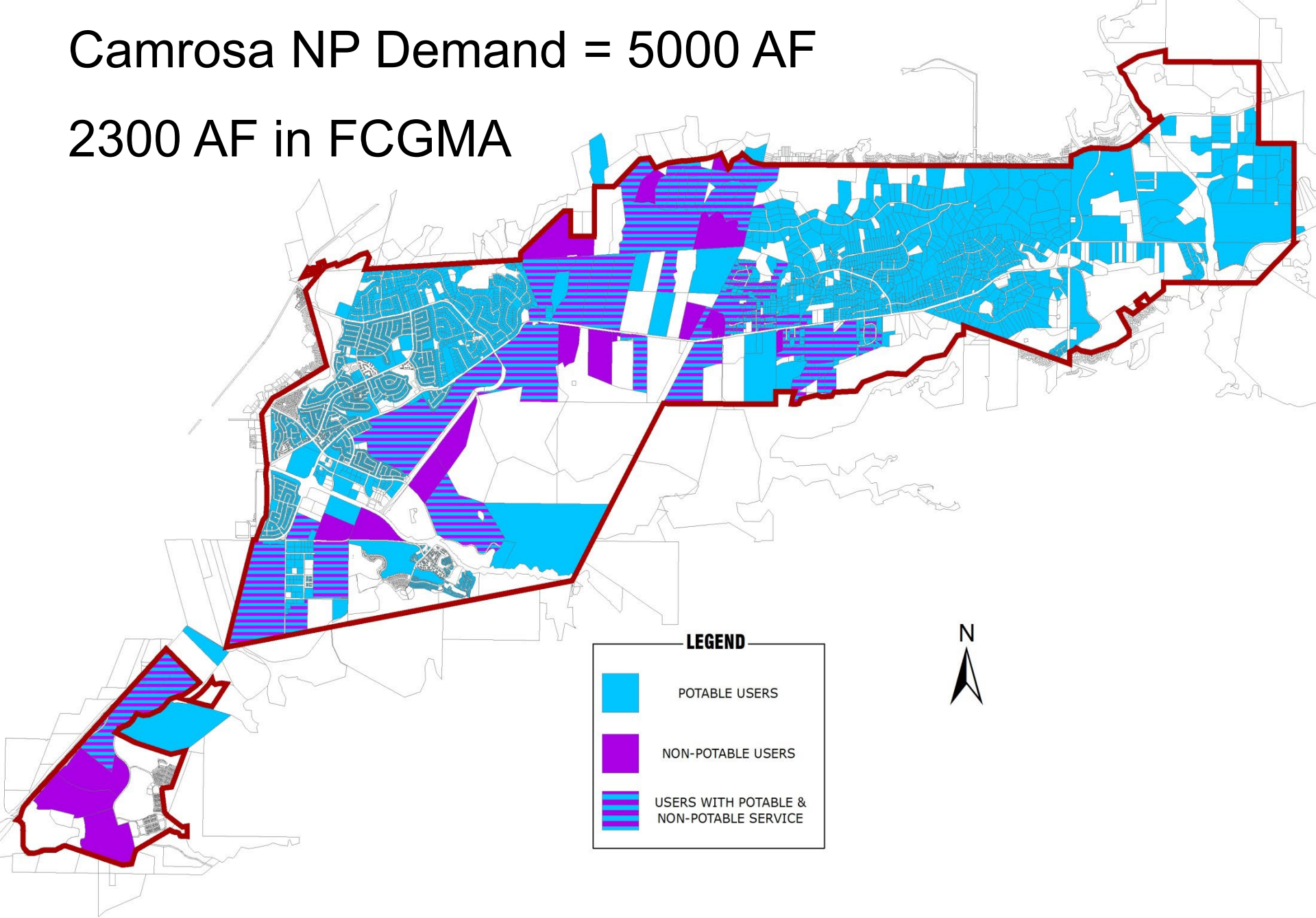
PENNY WELL






8/1/2013

Camrosa NP Demand = 5000 AF

2300 AF in FCGMA

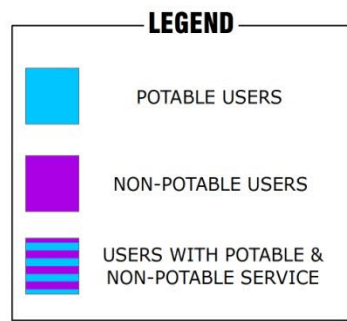
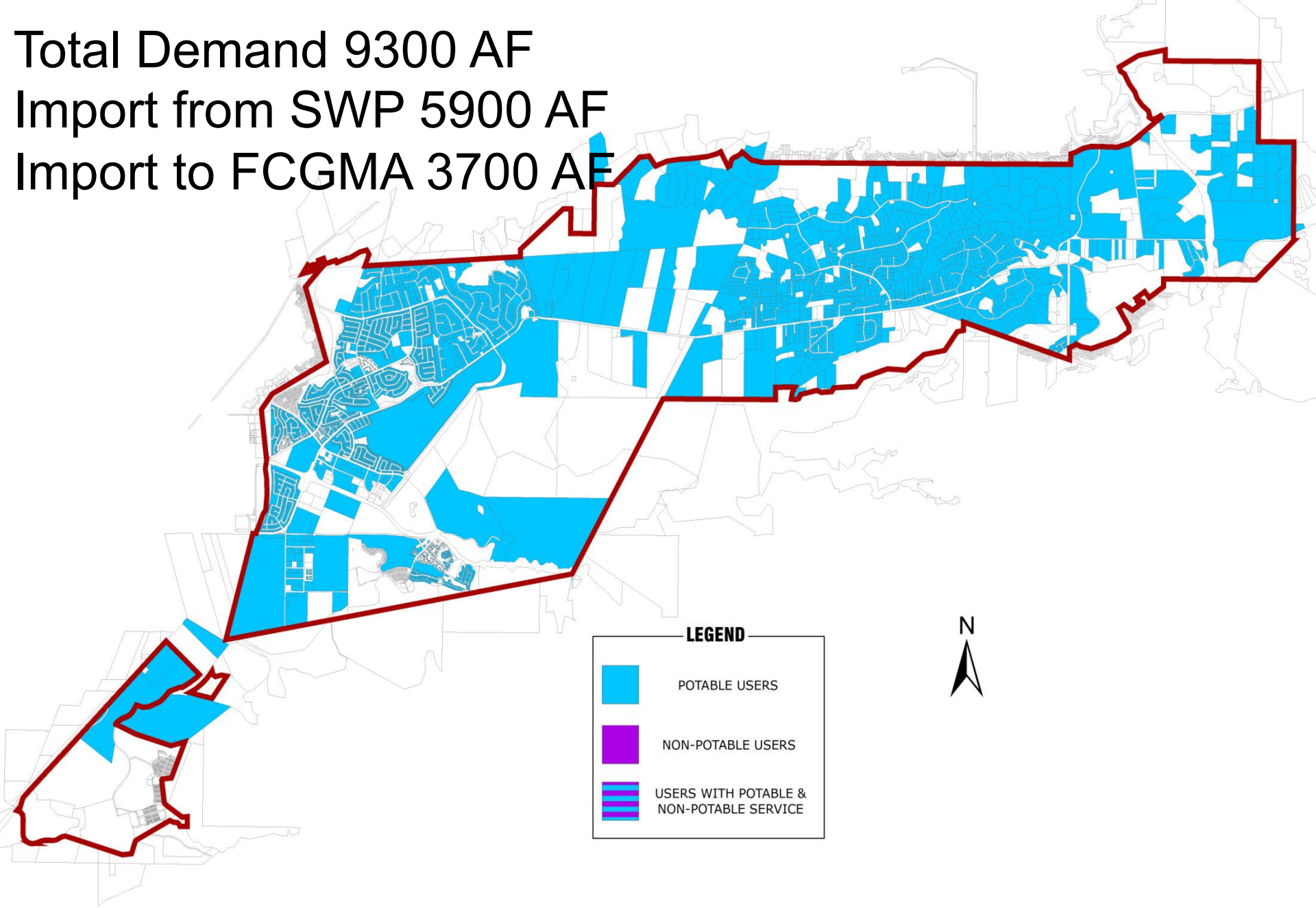


LEGEND

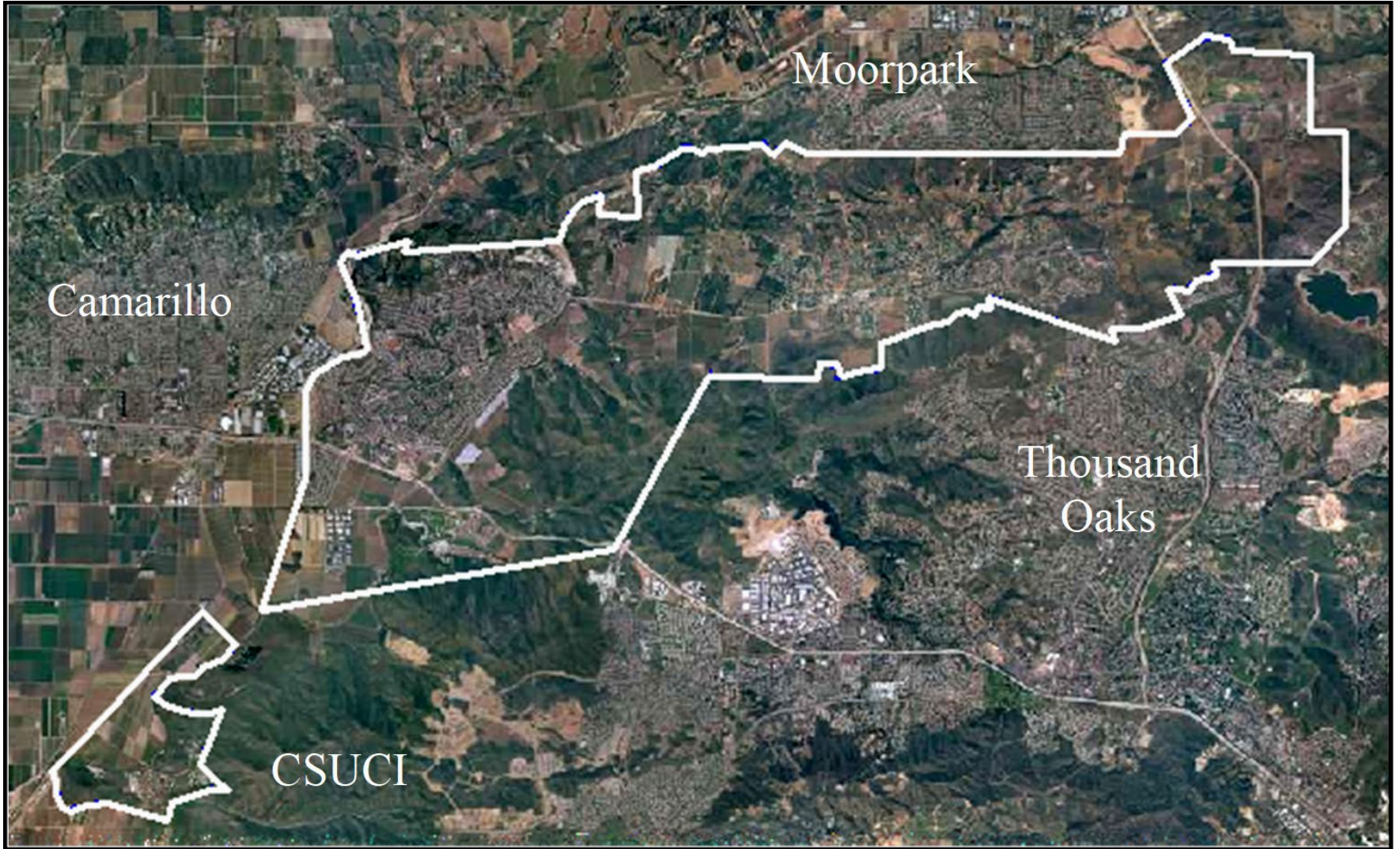
-  POTABLE USERS
-  NON-POTABLE USERS
-  USERS WITH POTABLE & NON-POTABLE SERVICE



Total Demand 9300 AF
Import from SWP 5900 AF
Import to FCGMA 3700 AF



Camrosa Water District





S Lewis Rd



PONDS

RMWTP

CSUCI

Image U.S. Geological Survey
© 2011 Google
Image © 2011 City of Thousand Oaks

Potrero Rd

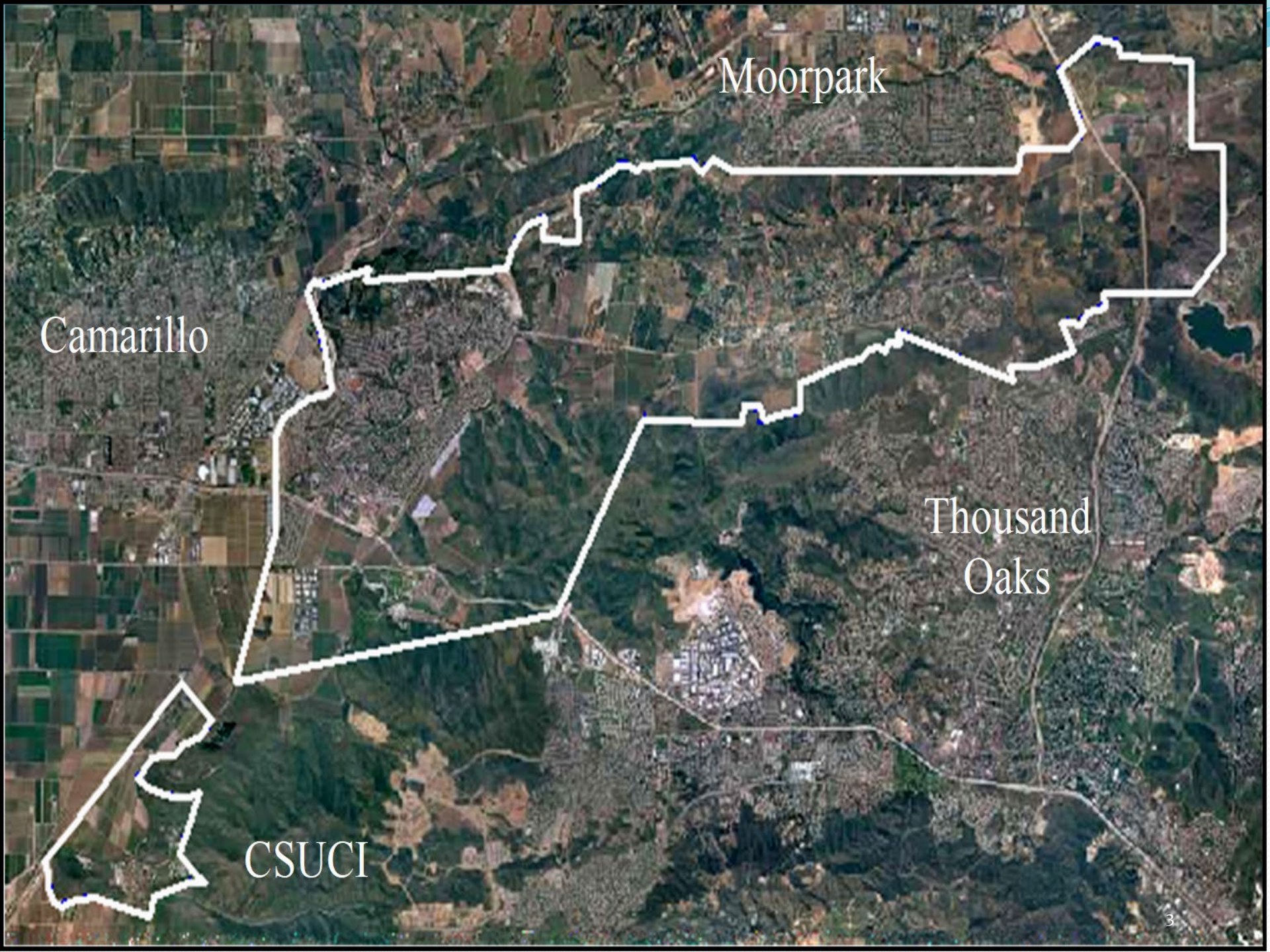
Proposed Conejo Creek Agreement: Pleasant Valley & Camrosa Water District and Consideration of a FCGMA Resolution to Provide Credits



Gerhardt Hubner
Deputy Director
Watershed Protection District

Conejo Creek Project – Specific Request

- Request by PV and Camrosa for approval by the FCGMA for credits to support the proposed Agreement to supply diverted Conejo Creek water
- Request could be approved/conditioned via a FCGMA Resolution



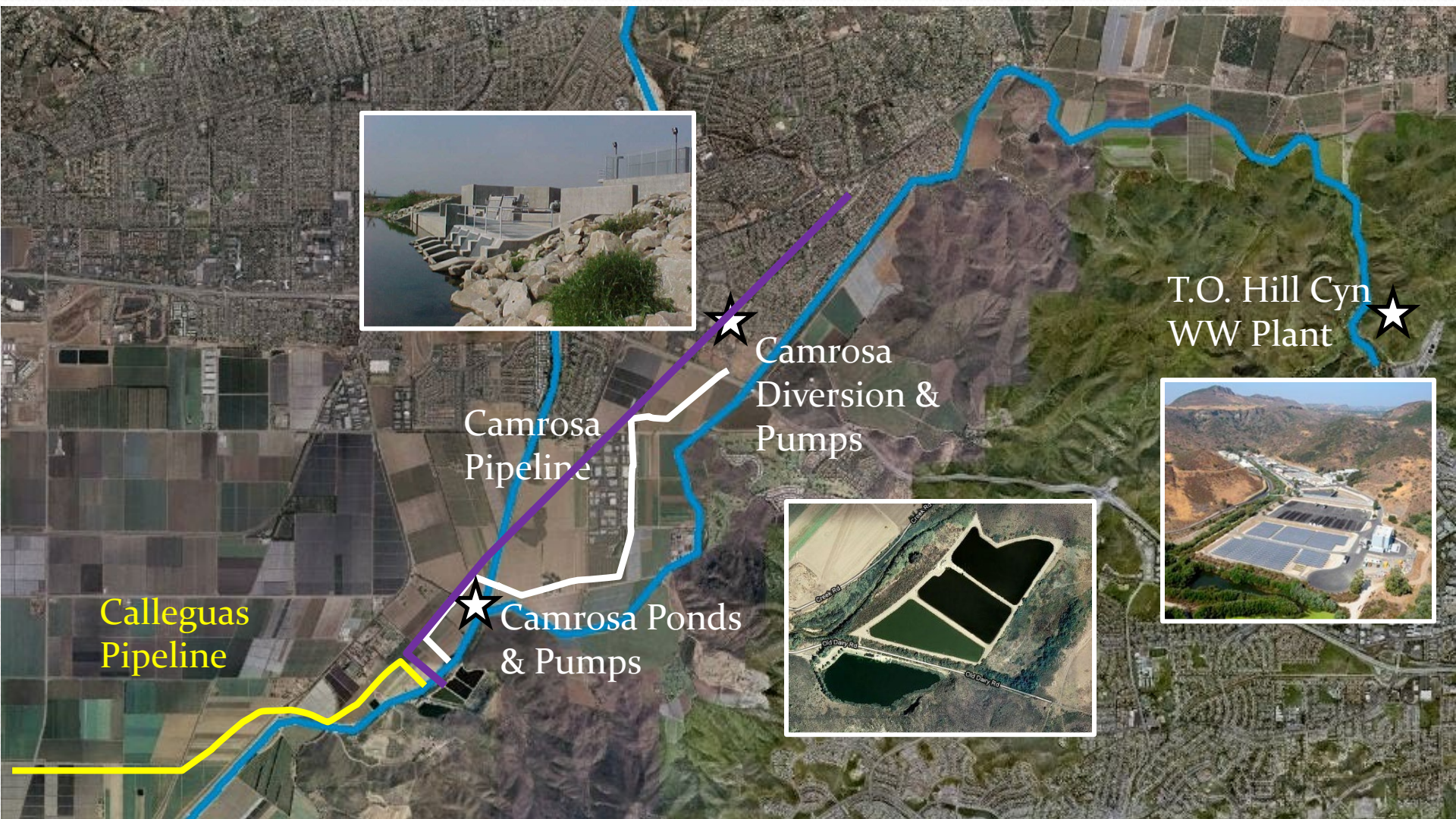
Moorpark

Camarillo

Thousand
Oaks

CSUCI

Conejo Creek Project Facilities



Calleguas Pipeline

Camrosa Pipeline

Camrosa Ponds & Pumps

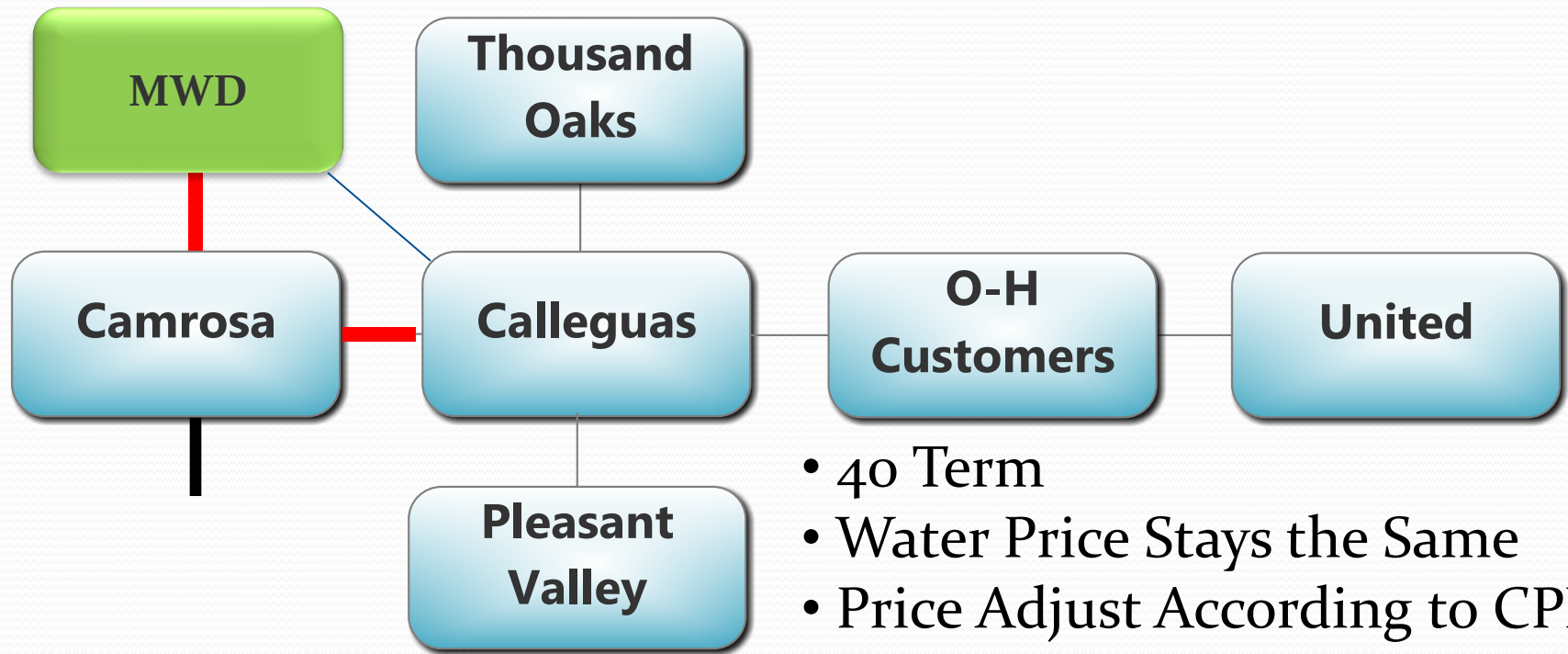
Camrosa Diversion & Pumps

T.O. Hill Cyn WW Plant

Previous Agreements/Approvals

- Original 1994 Agreement – Calleguas & PVCWD
- Diverted Conejo Creek Water provided to PVCWD in-lieu of groundwater pumping. In turn, PVCWD Credits to Calleguas at a 1:1 ratio
- May 2003 - FCGMA Board approves. Memo with Conditions Issued

Old vs. New Agreements



- 40 Term
- Water Price Stays the Same
- Price Adjust According to CPI
- Camrosa Pays T.O. for all water
- CMWD Pays Camrosa for PV usage
- Acquired Calleguas-to-PV Pipeline
- **Shift credits to Camrosa**

Major Tenets of Agreement

- Generally Mirrors 1994 Agreement except:
 - Three Party to Two Party Agreement – PVCWD and Camrosa
 - Calleguas wishes to terminate participation and credit accrual
- Camrosa has Rights to All Diverted Conejo Creek water via Agreement with City of Thousand Oaks
- Extension of Agreement to Year 2027

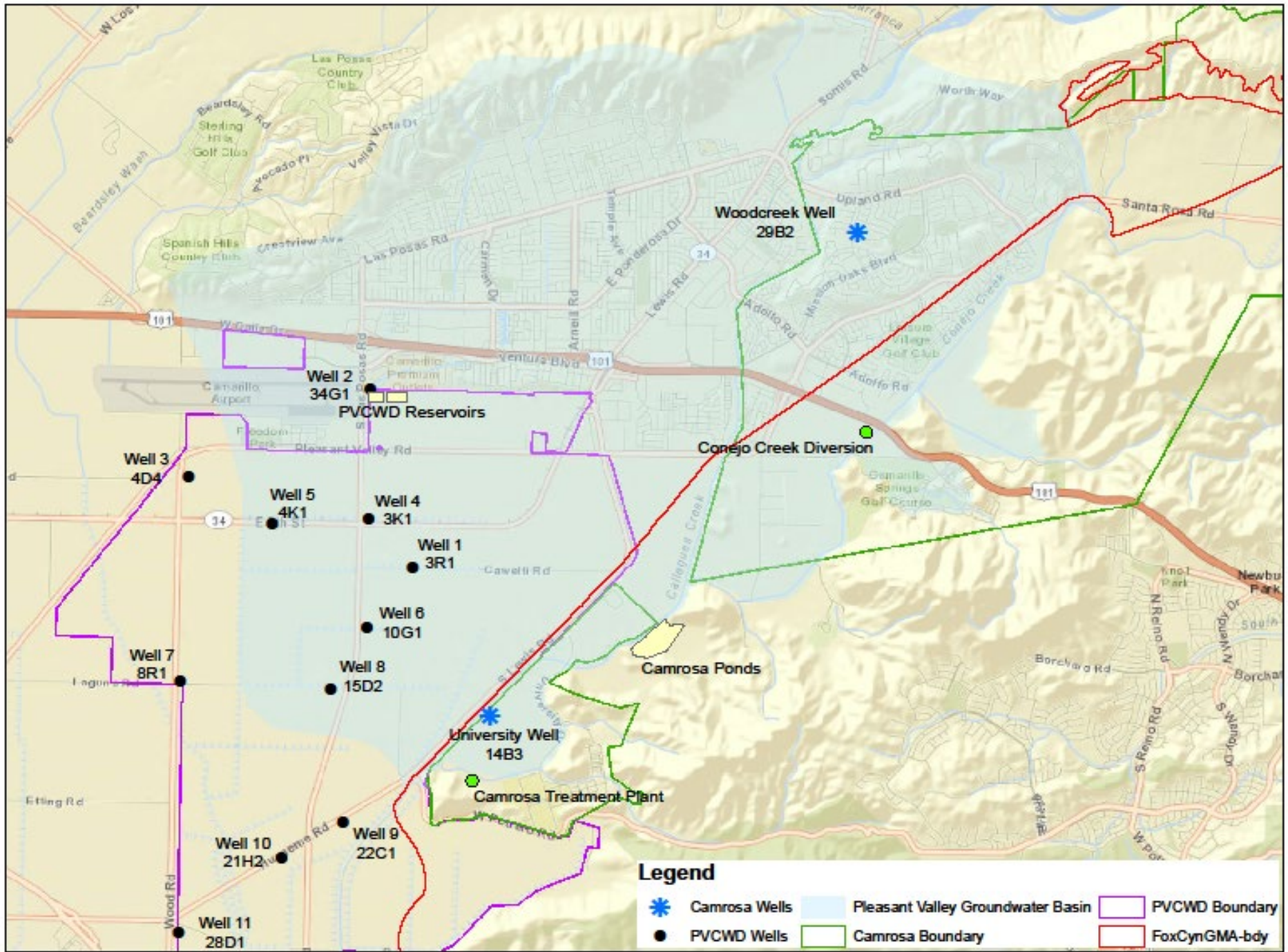
Major Tenets of Agreement

- Camrosa to sell diverted Conejo Creek Water
- In return Credits (up to 5,000 AFY) would be transferred from PVCWD to Camrosa
- Requesting 1:1 Ratio of water delivered to credit transferred
- Calleguas and UWCD would still have the ability to redeem previous M&I Supplemental Water accrued credits.

Impact Analysis - Bachman

Conclusion - Net Advantage to the Basin from Conejo Creek Project:

- Prior Delivery of Conejo Creek Water Reduced PVCMD groundwater pumping;
- Relatively Drought Proof due to Recycled Water Component;
- Pumping Shifted from Pumping Depression and Coast to More Inland Area;
- Inland Area More Receptive to Recharge of Stormwater from Arroyo Las Posas.



Map showing the location of wells, reservoirs, and boundaries in the Camrosa area. The map includes labels for various wells (Well 1-11, University Well, Woodcreek Well), PVCWD Reservoirs, Camrosa Ponds, and the Camrosa Treatment Plant. Major roads like SR 101 and SR 34 are shown. A legend at the bottom explains the symbols and boundaries used.

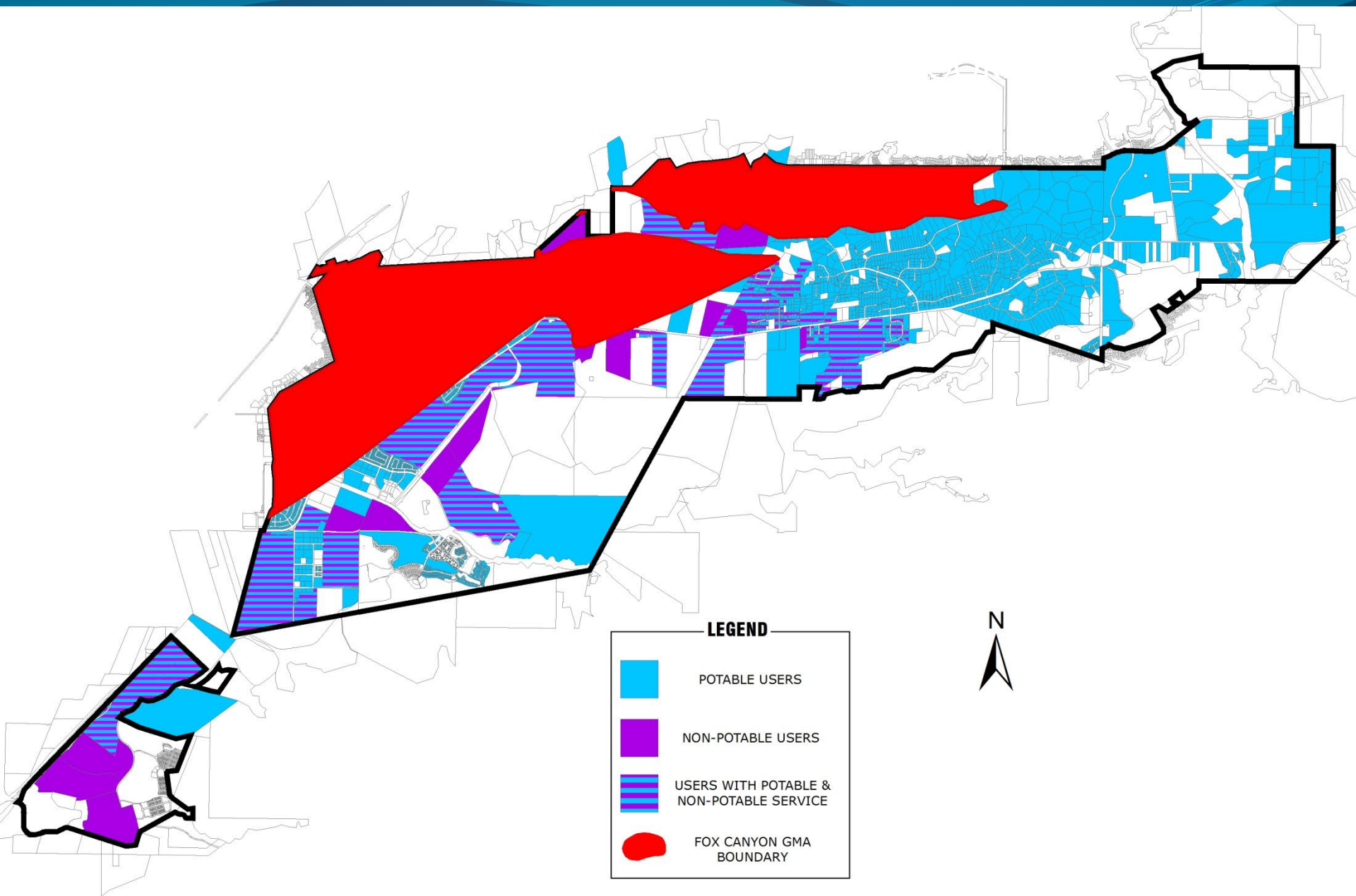
Benefits to Parties

Pleasant Valley





- Better Quality Water – Conejo Creek better than local groundwater
- Reliability – Year Round Water

Camrosa

- Existing Infrastructure
- Known Paying Customer
- Obtain Credits to Additional Groundwater – Potable Supply



LEGEND

-  POTABLE USERS
-  NON-POTABLE USERS
-  USERS WITH POTABLE & NON-POTABLE SERVICE
-  FOX CANYON GMA BOUNDARY

Camrosa Import Into the FCGMA

5000 AF of Conejo Creek Water delivered to PV

2300 AF of Conejo Creek Water (in addition to PV deliveries)

3700 AF of Potable Water

11,000 AF of Total Import to FCGMA

(800) AF pumped from Woodcreek

10,200 AF Net import to FCGMA

72% Non-Potable

28% Potable

Policy Implications

- How Beneficial is this Agreement & Program to the FCGMA?
- Should FCGMA Continue & Thus Approve this Revised Program through a Resolution?
- If so, should it Place Conditions on the Credits?

Options

- No Resolution/No Credits
 - Doesn't Effect Existing Agreement
- Adopt Resolution - No Conditions
- Adopt Resolution – Conditional Approval

Conditions for Consideration

- Sunset on Credits – 5 years for example
- Ratio: In-lieu Delivered vs. Credit
 - 1:1 or 0.5:1? = 5,000 AFY or 2,500 AFY
- Expiration or Review Date on Resolution – 10 years for example
- Limitation or Separate Approval on Credits Use by Parties Other than Camrosa (City of T.O. for example)

Recommendation

- Proceed to Full Board with Draft Resolution with Conditions