



**DEPARTMENT OF THE AIR FORCE**

**AIR FORCE REAL PROPERTY AGENCY**

**MEMORANDUM FOR DISTRIBUTION**

**FROM:** AFRPA Western Region Execution Center  
3411 Olson Street  
McClellan CA 95652-1003

**SUBJECT:** Restoration Advisory Board Meeting Minutes, 20 February 2007

1. Attached please find the final minutes from the 20 February 2007 McClellan Restoration Advisory Board meeting, held at the Lionsgate Terrace Room. Please note that due to RAB member comments; there have been a few minor changes since the Draft Final version was previously sent.
2. If you have any questions or comments, please contact Mr. Joe Clark, at (916) 643-1250, extension 257.

  
STEVEN K. MAYER, P.E.  
BRAC Environmental Coordinator

Attachment:  
Final Meeting Minutes, 20 February 2007

**Distribution List**  
**Final 20 February 2007 Restoration Advisory Board Meeting Minutes**

**Electronic Copies**

Robert Blanchard, RAB  
William Clements, RAB  
Gary Collier, RAB  
TJ Vargas, RAB  
Paul Green Jr., RAB  
Paul Plummer, RAB  
Betsy Weiland, RAB  
Stacey McKinley, RAB  
Nathan Dietrich, RAB  
Alan Hersh, RAB  
Jeanette Musil, RAB

Jose Garcia, US EPA  
Yvonne Fong, US EPA

Kevin Depies, DTSC  
Joyce Whiten, DTSC

Phil Mook, AFRPA  
Steve Mayer, AFRPA  
Linda Geissinger, AFRPA  
Paul Bernheisel, AFCEE

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Brian Sytsma, CH2M Hill  
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Gaelle Aronson, Tetra Tech

James Taylor, RWQCB

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Gary Collier, RAB  
Kevin Depies, DTSC

**Community Members**

Bill Johnson  
Frank Miller  
Barbara Paiva  
Marcy George  
Charles Yarbrough  
John Mieher

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Tguqt cvkqp'Cf xluqt{'Dqctf '\*TCD+O ggvlpi 'O lpuwgu'HP CN'  
42'HGD'4229'/'O eEngnecp.'Ecrlhqt plc''**

Time: 6:30 PM  
Place: Lions Gate Pavilion  
McClellan, California

**RAB Member Attendees**

<u>Name</u>	<u>Affiliation</u>
Gary Collier	Community RAB Member
Alan Hersh	Community RAB Member
Paul Green	Community RAB Member
TJ Vargas	Community RAB Member
Robert Blanchard	Community RAB Member
Steve Mayer	RAB Member - Air Force Real Property Agency
Yvonne Fong	RAB Member - U.S. E.P.A.
Kevin Depies	RAB Member – Department of Toxic Substances Control
James Taylor	RAB Member - Central Valley Regional Water Quality Control Board

**I. Welcome, Introductions, and Meeting Guidelines**

The facilitator, Ms. Aronson, welcomed the group to the meeting and introduced herself as the meeting facilitator. Attendees signed the sign-in sheet (Attachment 1), and picked up available handouts, including the agenda (Attachment 2).

The RAB members introduced themselves. Ms. Aronson introduced the new RAB member, TJ Vargas, who is the student representative. Mr. Vargas is a student at California State University, Sacramento.

Ms. Aronson had everyone in the room, to include community members, introduce themselves.

The general format of the meeting and agenda was outlined, including how to be recognized as a speaker during the meeting and when to ask questions.

**II. Agenda, Comments on Minutes**

Mr. Collier asked if the finalization of the minutes could be delayed a few days so he could have additional time to review the minutes. He will provide comments to the Air Force if necessary.

**III. LRA Activities / Air Force Cleanup Update / Regulatory Update**

**Air Force Cleanup Update (Attachment 3).**

Mr. Mayer presented the Air Force Cleanup Update (Attachment 3). Only information and comments not directly presented in the attachments will be recorded in these minutes.

Mr. Hersh asked if EPA had a timeline for a decision about whether the Initial Parcel #2 ROD would be disputed. Mr. Fong said that decision has not yet been made.

Mr. Green asked what the impact would be on the community if Initial Parcel #2 would be disputed. Mr. Mayer explained this would be the first cleanup Record of Decision at an Air Force installation for cleanup levels for soil gas. This ROD has national implications, and therefore there are concerns. Mr. Green asked for clarification that with this ROD there is nothing really that the community should be concerned with. Mr. Mayer stated that from the Air Force perspective this is true. Mr. Depies said that the State is concerned somewhat because of the differences in the inputs that go into the model that is used to determine cleanup levels. Ms. Fong added there are ultimately two options if this goes to dispute 1) if the Air Force wins, the proposed remedy would not change, or 2) if the EPA wins, the Air Force, and potentially the developer would have to add added levels of protections such as institutional controls or soil gas barriers. Mr. Hersh pointed out that from his understanding there is no concern for the greater community; it is more of an issue for the commercial uses of buildings. The impact on the community would be if this decision delays property transfer. Mr. Depies agreed that it is a long-term exposure question. Mr. Collier pointed out that he is concerned with potential soil gas that he believes has been found off base.

Mr. Green asked what a performance-based contract is. Mr. Mayer explained that it is a contract mechanism that is more efficient than more traditional contracts. This type of contract is for a fixed price for a fixed amount of work. This gives the contractor flexibility to potentially streamline the work when necessary.

Mr. Collier asked if the Privatization signing ceremony would be a public event. Ms. Fong stated that as of now, the signing ceremony is tentatively planned to include elected officials and the media, as well as the local community.

Mr. Vargas asked where the Focused Strategic Sites are located and what are in these sites. Mr. Mayer pointed them out on a map, they landfill sites on the western portion of the base.

## **Regulatory Update**

Ms. Fong provided an update on the Early Transfer with Privatized Cleanup project, known as the C6 Parcel. There has been progress on the multiple documents required for this project. There will be a 30-day public comment period for the Administrative Order of Consent.

Ms. Fong said EPA has received the response letter from the Air Force concerning the soil gas issue involved with Initial Parcel #2 ROD. She anticipates the EPA will begin the formal dispute process in the near future. EPA disagrees with the screen levels the Air Force uses in the model to evaluate risk.

Ms. Fong stated that EPA hopes to be able to get all the agencies and Air Force together prior to the release of the Focused Strategic Sites ROD, so that they may be able to avoid a potential dispute down the road.

Mr. Hersh added that it is great news for the community that the privatization effort is so far along, and the signing ceremony would be a great community event. He pointed out that

Senator Feinstein is keenly interested in this project and will likely be involved with the signing ceremony.

Mr. Hersh posed the question to the RAB that they undertake a dialogue in the near future about informal discussions about the process that many of these decision documents must go through, and the process that property transfer documents must go through. He stated that he and Ms. Musil will likely discuss this and will formally bring this to the RAB in the near future

#### **IV. Regional Groundwater Issues**

Rob Swartz from the Sacramento Groundwater Authority (SGA) provided an extensive briefing that can be found in Attachment 4.

#### **RAB Questions**

Mr. Collier asked if the SGA was involved with, or knowledgeable about the testing for contamination at Sacramento City water supply wells. Mr. Swartz replied that it is left up to the individual water suppliers to conduct their own sampling, but he would look into this and get back to the RAB.

Mr. Hersh pointed out that McClellan has multiple extraction wells that act as a screen for the base, along with multiple monitoring wells to keep track of the contamination.

Mr. Vargas asked what the impacts potentially are to surface waters, if there could be contamination draining into surface water, not just down to the groundwater. Mr. Swartz said that is true, runoff can carry contamination.

Mr. Mayer asked if recharge occurs from rivers and streams, or where does recharge actually occur. Mr. Swartz said that is one thing they are trying to determine through models. They suspect most recharge occurs east of the valley, in the mountains. Estimates ranges from 40,000 acre-feet per year, to 90,000 acre-feet per year.

Mr. Mayer asked if the SGA interacts with the agencies that control dams in the region, to help conjunctive use. Mr. Swartz said that while they do work together, and continue to try and improve their working relationship in developing minimum flow standards. However, since the Sacramento River flows into the San Francisco Bay, there are issues as far as controlling water flow to keep fresh water in the bay for natural habitat purposes.

Mr. Mayer asked if there has been any thought given to providing a water reserve at McClellan. Mr. Swartz stated that's not really his question to answer. Mr. Taylor asked Mr. Hersh if McClellan Park or Sacramento County has considered using the groundwater treatment system for any productive purposes at any point in the future. Mr. Hersh said they did look into this several years ago, and the capital investment wasn't worth it. He said that now there is more certainty with the groundwater

cleanup program that maybe the RAB and other stakeholders may be interested in creating a focus group to look into this subject.

## **V. Public Comments**

Mike Deering: I live and work here at McClellan. My wife and I have lived here now for about three years, we live in the old officers' quarters behind Lion's Gate. This meeting isn't quite what I thought the meeting would be about. I see McClellan Restoration Advisory Board, and my concern is has to do with security and safety here at McClellan as far as the perimeter and Watt Ave. beautification and taking down of the fences. In our area in the last three months there have been five automobile break-ins, we've had two auto thefts right out of the parking lot, and we've had a security officer's golf cart stolen. That is my big concern, it seems we are tearing down the perimeter fences here at McClellan and not addressing security within the park itself. The other thing is that it seems the people who drive within McClellan Park don't think the DMV laws apply inside the park. My wife and I walk to work and we ride our bikes around the park, and people just run through stop signs. I don't see any type of law enforcement that is backing any of the traffic rules and regulations within the park. It has been very interesting listening to the discussion about the contamination. I had thought this was something that had been taken care of, but it seems as though it is an ongoing thing.

Bill Johnson: I don't have any specific comments, but I did thoroughly enjoy the groundwater presentation Mr. Swartz made. I have attended many Sacramento Suburban Water District meetings and those brought out some of the difficulties in establishing a balanced delivery of water between groundwater and the surface water. Mr. Swartz did mention about the groundwater moving under the American River, and I was the original project director on the Aerojet investigations that started back in 1979. It was amazing to us geologists and engineers that the groundwater was moving to the north. Fair Oaks Water District has one or two wells that have been contaminated and they are addressing that as well Carmichael Water District. The presentation on the groundwater was very balanced and I did enjoy it.

## **VI. RAB Open Discussion**

Mr. Blanchard said that the Rio Linda Water District would be interested in having Mr. Swartz present at their meetings. Mr. Blanchard also pointed out that he sees a need to educate the Rio Linda Water District on the McClellan groundwater cleanup program. Mr. Mayer stated that the Air Force would be willing to go to their board meetings to provide an update, or to provide Mr. Blanchard with the appropriate maps and briefing materials to help educate the board.

Mr. Green asked why there is an impasse over a factor, or a multiplier. It appears that has been going on for a year and a half on this topic. Why do we continue to move the process forward when we know there is an impasse? This costs time and money, and why not define this upfront to help progress? Mr. Depies stated that the reason we are at this point now is through the CERCLA process and lessons learned, we've learned you can't really dispute until there is a ROD. Leading up to this point there has been discussions, and positions have been discussed. We have been working towards trying to reach a solution without coming to a dispute, but at this point it looks like we will be going to dispute. Mr. Green said that while he understands that, it appears this "multiplier" is a technical thing, why did we not agree upon that model upfront. Mr. Fong pointed out this is an emerging

science and what's assumed to be the best inputs have changed and evolved as the model matures. Also, through the CERCLA process, they often weed out the easiest issue and to resolve the difficult issue we sometimes need to go through the dispute resolution process. Mr. Mayer added that is how the Air Force has gotten to the point where the Air Force actually signed the ROD, but other people who are far up the chains of the agencies now say "let's take a look at this closer." Mr. Green said that it appears that the planning stage seems to be lacking before we head down the road. Mr. Green stated that it appears he will not get a satisfactory answer to my question, but one that is slightly skewed. Ms. Fong pointed out that EPA needs to reconcile, to some degree, what goes on at other sites, in comparison to this site.

Mr. Collier asked about the regulatory oversight of waste storage containers near the Winters area. Mr. Depies said that the rules that would apply depend on how the waste was generated. If the Air Force generated the waste, CERCLA would apply, or if it was generated in other ways, other authorities would apply. Mr. Collier would like more information and will ask further questions to the State.

Mr. Collier expressed concern that Mr. Hersh and McClellan Business Park is obtaining information through BCT meetings. Mr. Collier asked why the RAB members do not have the ability to attend BCT meetings, and it could be an Environmental Justice issue if the community is not allowed to attend BCT meetings. Ms. Aronson suggested this be discussed further at a future meeting.

## **VII. RAB Members Advice, Comments, and Announcements**

Mr. Mayer stated that while it is good news to have a new RAB member, Mr. Vargas, that there are other openings on the RAB.

Mr. Hersh thanked the SGA for the presentation, as well as getting involved in the groundwater Record of Decision a year ago.

Mr. Green pointed out that he has seen positive changes in the RAB over the past few years and he no longer sees a need to attend the BCT meetings.

Mr. Blanchard asked for prior notification of the privatization signing ceremony.

Mr. Collier expressed satisfaction with the groundwater discussion. He also asked to have proper notification for the privatization ceremony.

Meeting was adjourned.

**McClellan Restoration Advisory Board (RAB) Meeting  
Lions Gate Hotel, Pavilions Building  
5640 Dudley Blvd., McClellan, California 95652  
Tuesday, February 20, 2007"  
6:30 – 8:30 pm**

## **AGENDA**

<b><u>TIME</u></b>	<b><u>TOPIC</u></b>	<b><u>LEAD</u></b>
<b>6:30 – 6:35</b>	<b>Welcome &amp; Introductions</b>	<b>Facilitator</b>
<b>6:35 – 6:40</b>	<b>Agenda &amp; Comments on Minutes</b>	<b>Facilitator</b>
<b>6:40 – 7:00</b>	<b>AF Cleanup Update and LRA Activities</b> <u>Goal:</u> Provide an update of current field activities and key documents. <u>Process:</u> Presentation and Q&A	<b>Air Force</b> Steve Mayer <b>LRA</b> Jeanette Musil
<b>7:00 – 7:05</b>	<b>Regulatory Update</b>	<b>Reg Agencies</b>
<b>7:05 – 7:45</b>	<b>Groundwater Issues</b> <u>Goal:</u> Provide an overview of the groundwater issues in the Sacramento area and how they are related to cleanup. <u>Process:</u> Presentation and Q&A	<b>SGA</b> Rob Swartz
<b>7:45 – 8:00</b>	<b>RAB Open Discussion</b> <u>Goal:</u> Provide RAB members time to ask questions and foster discussion about stakeholder group concerns or comments. <u>Process:</u> Q&A and Discussion	<b>RAB</b>
<b>8:00 until complete</b>	<b>Public Comment</b> <u>Goal:</u> Provide opportunity for members of the public to comment. <u>Process:</u> Public members fill out a comment card indicating they want to speak. The facilitator will call each person to the microphone. Statements will be timed and are limited to 3 minutes for each speaker. The timer will notify the speaker when they have 30 seconds remaining and when they have reached 3 minutes.	<b>Facilitator</b>
	<b>RAB Members Advice, Comments, &amp; Announcements</b> <u>Goal:</u> Solicit advice from each RAB member for upcoming agendas, and provide an opportunity for RAB members to express brief comments and/or make announcements. <u>Process:</u> Around the table for each member to offer top suggestions for agendas, comment and announcements; comments will be recorded and will form future agendas.	<b>RAB</b>



## **MEETING GUIDELINES**

### ***Ground Rules***

- Be progress oriented
- Participate
- Speak one at a time
- Be concise
- Use “I” statements when expressing opinions
- Express concerns and interests (not positions)
- Focus on issues not personalities
- Focus on what CAN be changed (not on what can not be changed)
- Listen to understand (not to formulate your response for the win!)
- Draw on each others experience
- Discuss history only as it contributes to progress

### ***Facilitator Assumptions***

- We are dealing with complex issues and no one person has all the answers
- Open discussions ensure informed decision making
- Managed conflict is good and stimulates creativity and innovation
- All the members of the group can contribute something to the process
- Everyone is doing the best they can with the knowledge they have now
- Blame is unproductive and dis-empowering

## Restoration Advisory Board Meeting Cleanup Update – Feb 20, 2007

### FIELD REVIEW:

#### Groundwater Treatment Activities

- › **McClellan Ground Water Treatment System (GWTS)** The GWTS is operating at a weekly average of 1500 gpm with 10 wells shutdown due to Operations & Maintenance repairs or by Base Realignment and Closure Team (BCT) direction. Operable Unit (OU) A *Extraction Well (EW)315 and EW-335 have been shut down during pipeline realignment of the Investigative Cluster (IC) 29 system and are expected to be operating by 15 February. EW-460 is shut down due to motor failure. The motor will be replaced when a development rig is on-site at the end of February.* OU B EW-284 (A), EW-307 (C) and EW-309 (D) have been shut down because VOC concentrations are less than 80% of the MCL; the wells are being monitored for rebound. OU B EW-63, EW-246, and EW-247 are shut down to convert the wells from above ground completions to subsurface vaults. OU C EW-305 is offline due to communication failure. The problem is being investigated; a schedule for resolution is being developed. Flow to the Beaver Pond was restored on 5 February because the pond level dropped below 2 feet on the gauge for two consecutive weeks. Quarterly sampling of the pond will occur during February. Approximately 17,200 gallons of treated water were discharged from the CERCLA treatment system to the sanitary sewer following review of sampling results by the Air Force. Redevelopment activities for EW-302 and 3 piezometers were completed during the week of 29 January. GWTS electrical upgrades that began in mid-January are continuing; completion is expected by 16 February. Vaults for EW-63, EW-246, and EW-247 are currently being installed. All above ground conveyance piping in the area is being placed underground, and Control Panel 21 is being upgraded. Completion of this work is scheduled for approximately 9 March.
- › **Investigative Cluster (IC) 29 GWTS** (pre-treating ground water from dual-phase extraction wells; vapors are piped to the IC 25/27/29/30/31/32 vapor-phase granular activated carbon (VGAC) SVE system discussed below). *The effluent pipeline was rerouted away from Magpie Creek and placed underground north of the treatment system. EW-315 conveyance piping was rerouted below ground and EW-335 piping was rerouted directly to the treatment system effluent. Final construction of the upgrades will be completed by 15 February.*
- › **Davis GWTS** – The semi-annual groundwater monitoring event was conducted the week of 27 November 2006.
- › **Ground Water Monitoring Program (GWMP)** *The 1Q07-sampling event began the week of 15 January with water level measurements. Sampling began during the week of 22 January. The quarter is scheduled to end during the first week of March. There are 233 wells scheduled to be sampled.*
- › **Non-VOC Groundwater Remedial Investigation:** *Monitoring well (MW) installation began on 06 February. MW-I and MW-C were installed and installation of MW-F will begin on Monday. Wells are being installed per the 26 January conference call at the agreed upon locations..*

#### Soil Vapor Extraction (SVE) Program Activities

- › **Soil Vapor Extraction (SVE) Systems** (11 of 14 SVE systems operating, removing vapors from 11 of 24 SVE sites).
  - a. IC 1 vapor-phase granular activated carbon (VGAC) is not operating. System was shut down for a rebound study on 5 July 2005 *and to support IP 3 drilling and sampling activities in the area.*
  - b. IC 5/7 VGAC is not operating. System was shutdown on 14 July 2006 to support IP 3 drilling and sampling activities in the area.
  - c. IC 19/21 Flameless Thermal Oxidizer (FTO) is operating normally. (98.9% uptime)

NOTE: *Italicized text represent update changes"*

- d. IC 19/21 VGAC is operating normally. *(99.5% uptime)*
  - e. IC 25/27/29/30/31/32 VGAC is operating normally. *(99.8% uptime)*
  - f. IC 34/35/37 Flameless Thermal Oxidation (FTO) is operating normally. *(99.4% uptime)*
  - g. IC 34/35/37 VGAC is operating normally. *(100% uptime)*
  - h. IC 41/42/43 SVE is operating normally *(93.5% uptime)*
  - i. PRL T-44 VGAC is not operating. This system was shut down for a rebound study on 23 July 2004.
  - j. OU C1/PRL 66B Flameless Thermal Oxidizer (FTO) is operating normally, treating vapors from OU C1 only. *The oxidizer vessel effluent piping was replaced due to deterioration from acid gases as a preventative maintenance measure. (94.8% uptime)*
  - k. OU D VGAC is operating normally. *A carbon change out of the primary vessel was conducted on 1 February 2007. (96.5% uptime)*
  - l. OU D Thermal Oxidizer is operating normally. *(99.1% uptime)*
- › **IC 27 SVE STOP Field Work** IC 27 SVE STOP fieldwork is complete.
  - › **Building 243 START Soil Gas Drilling, SVE system installation.** *The final B243 SVE EE/CA is due 22 February 2007. The final B243 RAWP was issued on 22 January 2007. SVE conveyance line piping installation was completed on 2 February 2007. VGAC system installation is continuing.*

### **Petroleum, Oil, and Lubricants (POL) Cleanup Activities**

- › Capehart Gas Station Site Closure Evaluation Report – Water Board review comments on the draft Report was received on August 7, 2006. The final Capehart Gas Station Closure Evaluation Report was forwarded to the Regulatory Agencies for review and concurrence on 13 October 2006. Water Board review comments submittal due date for the report was extended for thirty days. The extension was necessary to allow the Public an opportunity to review the site closeout report and provide comments, if any, to the Water Board
- › Final Site Closure Evaluation Report for Bldg 764 – Water Board review comments on the draft final Report was received on 16 June.
- › Biovent Shutdown and Well Decommissioning Work Plan for Bldg 26 and Bldg 764 - The draft document was forwarded to the Regulatory Agencies for review and approval on 28 July 2006. Regulatory Agency review comments on the draft Work Plan were received on 18 September 2006. The final Biovent Shutdown and Well Decommissioning Work Plan for Bldg 26 and Bldg 764 was forwarded to the Regulatory Agencies for review and concurrence on 10 October 2006.
- › Capehart Gas Station Biovent Shutdown and Well Decommissioning Work Plan - The draft was forwarded to the Regulatory Agencies for review and approval on 2 August 2006. Regulatory Agency review comments on the draft Work Plan were received on 18 September 2006. The final Capehart Gas Station Biovent Shutdown and Well Decommissioning Work Plan was forwarded to the Regulatory Agencies for review and concurrence on 4 October 2006.
- › 5) Building 458 - Four below grade hydraulic lifts *have been removed and final grading of foundation completed.*

### **Radiation Program Activities**

- › CS-10 - Approximately 24,700 cubic yards of soil remain staged inside the tent consisting of the green coded soil (NORM) and blue coded soil (NORM and metals). Site inspections are conducted weekly.
- › All radiological sites are inspected daily and all protective measures remain intact.  
Existing CERCLA Sites FSP – Cabrera Services has completed RI characterization field activities. *Based on results from the completed RI, CABRERA has identified an area of*  
*NOTE: Italicized text represent update changes"*

*elevated Radium-226 activity northeast of Building 658 (PRL S-030). Based on descriptions of current activities at McClellan, there is a potential for elevated exposures for outdoor occupational and construction workers in the unpaved area east of Building 658. The Air Force has directed CABRERA to erect fencing and appropriate signage around the area to restrict access, and CABRERA will install the fencing following AFRPA encroachment permit completion.*

*Additionally, during RI characterization at the Building 658 (PRL S-030) site, Cabrera found detectable levels of Cobalt 60 at the sump located north of the building. Further characterization determined the Cobalt 60 to be isolated in one of the metal grates used to cover the sump. Discussions with Air Force personnel determined that the grate might be properly disposed of with IDW associated with the Existing CERCLA Sites RI field activities. RICS Addendum document preparation is progressing on schedule.*

- › Airfield RI – Cabrera Services is continuing to develop the RICS addenda to document the results of the Airfield RI.
- › Bldg.252 Radiological survey iaw RICS permit revealed elevated readings just outside of the current facility fence. Fence panels have been installed to exclude public radiological exposure from the below grade contamination in the alley between Bldg.252 and 251.

### **Soil Contamination Remediation and Management Activities**

- a) **OU B1 and OU D Cap O&M Update** –The 4th Quarter Inspections were completed on 4 December. *Sediment trap sampling and sediment removal was done in January. Some elevated levels of PCBs were found in the collected sediment, therefore secondary analysis for metals and dioxins were performed, plus sediment was collected immediately downstream from the sediment traps. Once those results are available the 4<sup>th</sup> Quarter Report will be issued.* The performance of the recently installed Austin Media Filter will continue to be monitored during the upcoming rain events to ensure it is functioning properly.
- b) **Sanitary Sewer System Replacement Project** – Trench excavation is ongoing with two crews at two separate locations. Current locations (12 Feb 07) are Dudley Blvd at the AE St. intersection (Crew 1), and Arnold, north of Peacekeeper Way (bldg 7), and Olson St. (bldg 10) (Crew 2). Crew 1 will encounter an IWL IRP site later this week. Crew 2 is in a Non-IRP area.
- c) **IP#3** - Field work as proposed in the IP #3 Work Plan is complete. *Based on a review of the collected data and with concurrence from the regulatory agencies, step-out sampling was conducted at SA 092, CS 048, PRL T-006, PRL S-030, PRL L-005, SA 007, SA 014, SA 011, Wastepile, OU B1 Drainage Ditch, and PRL S-012 during the weeks of 22 January and 29 January. Additional step-out sampling was conducted near the OU B1 Drainage Ditch and PRL S-013 on 9 February.*
- d) **PRL 060 (Oxidation Ponds) Parking Lot Construction** Ch2M Hill completed the necessary IP#3 sampling of PRL 060 following removal of the unsuitable soil. Following removal of degrubbing material/soil from the oxidation ponds, Tetra Tech CSI transported 459 cubic yards of soil to a private parcel located at 130 Ascot Avenue in Rio Linda. Since this was not Air Force pre-approved nor a Class III Landfill, the Air Force directed Tetra Tech to return the soil to McClellan and place it at the Soils Staging Pile Facility (SSPF). Tetra Tech estimates a total of 2,760 cubic yards of soil has been removed from PRL 060 and staged at the SSPF. *Tetra Tech requested and the Air Force granted permission to return the 459 cubic yards of degrubbing soils to PRL 060 for construction fill.*
- e) **McClellan Soils Management:** Access to the Shelter Road CSHA for soils disposal will be limited to Air Force projects, and alternate sites as specifically approved by AFRPA dump slip permit. Lease transfer of the SSPF has occurred. Use and management has been transferred to MBP.
- f) **Industrial Waste Collection System:** The Air Force continues to investigate sources of wastewater entering the IWCS. The Air Force works with MBP to identify remaining influent

*NOTE: Italicized text represent update changes"*

flows into the former IWCS system from McClellan Park facility tenants so they may be redirected or connected to the SSS. AFRPA has granted MBP approved temporary connection of Bldg. 251 sanitary sewage service connections to the IWCS. These lines originally discharged to the Bldg.252 SS line, which was found to contain radium paint sludge. MBP will preclude additional downstream radium impacts by installing alternate connections to the IWL, facilitating occupancy, and use of affected restrooms in Bldg.251.

#### **Creeks/Habitats/Maintenance Programs**

- g) Vernal pool** field oversight to protect the vernal pool areas by the AFCEE Field Team is ongoing.
- h) Airfield mowing** will resume in the spring when ground conditions are sufficiently dry.
- i) Air Force Firebreak Maintenance** completed -- no activity anticipated until Spring 2007.
- j) Mowing of Leased Properties** outside of the Airfield will resume in the spring when ground conditions are sufficiently dry.

*NOTE: Italicized text represent update changes"*

**Key Documents and Events of Interest to the RAB**  
**20 FEB 07 RAB Meeting**

	<b>Document</b>	<b>Document Description</b>	<b>Status</b>
1	Focused Strategic Sites Record of Decision	Describes varied cleanup decisions for 11 sites	Draft 2 March 07
	Initial Parcel #2 Record of Decision	Describes varied cleanup decisions for 23 sites	Final 30 April 07
2	Davis Site FOSET w/CERCLA Covenant Deferral	Documents the environmental restrictions in support of an early transfer of property associated with IRP sites at the Davis site	AF signature pending
3	FOSET Large #1 (Finding of Suitability for Early Transfer)	Documents the environmental restrictions in support of an early transfer of property associated with IRP sites in the LRA Initial Parcel ROD #2	AF signature pending
4	Basewide Groundwater VOC Record of Decision	Describes final cleanup remedy for VOCs in the groundwater	Final 14 March 07
6	A5, A6A, A6C FOSET	Documents the environmental restrictions in support of an early transfer of property associated with IRP sites in the parcels	Final 30 April 07
7	FOSET Large #2 (Finding of Suitability for Early Transfer)	Documents the environmental restrictions in support of an early transfer of property	Scheduled for completion in Summer 2007
8	Initial Parcel # 3	This Record of Decision will address the remaining 53 sites of the Initial Parcel	Remedial Investigation/ Feasibility Study-Spring 07  Proposed Plan – Winter 07/08
9	62-Acre Privatization Parcel	<p>There are many related documents that are required for this effort, including transfer documents, statement of work, land use covenant, FFA amendment. A more detailed schedule is available upon request.</p> <p>The transfer of this parcel is scheduled to be completed in Spring 2007</p> <p>The RAB will be kept informed of progress.</p>	

# Deliverable Status Report – 2/20/2007 – 5/20/2007

Project Manager	DSR	Document Title	Doc. Type	OU Code	Deadline Date	Extension Date	Completion Date
Buddy Walser	<a href="#">1252-1</a>	Basewide Rad RICS	Draft	BW	1/27/2006	3/30/2007	
Dave Green	<a href="#">436-8</a>	Rad FSSR - Bldg 644	Draft Final 4	A	3/29/2001	2/27/2007	
	<a href="#">504-1</a>	Rad FSSR - Bldg 722; Bays 7, 9 thru 12	Draft	C	1/15/2001	2/27/2007	
	<a href="#">773-1</a>	Rad FSSR - Bldg 248	Draft	H	8/28/2001	3/5/2007	
	<a href="#">502-5</a>	Rad FSP - Bldg 658	Final	B	3/9/2007		
	<a href="#">556-1</a>	Rad FSSR - Bldg 1086	Draft	D	8/28/2001	3/12/2007	
	<a href="#">560-2</a>	Rad FSSR - Bldg 334	Agency Rev D	A	3/27/2007		
	<a href="#">436-9</a>	Rad FSSR - Bldg 644	Agency Rev DF4	A	3/29/2007		
	<a href="#">535-1</a>	Rad FSSR - Bldg 628	Draft	B	8/28/2001	4/2/2007	
	<a href="#">560-3</a>	Rad FSSR - Bldg 334	Draft Final	A	4/26/2007		
	<a href="#">1219-1</a>	Airfield Survey FSSR	Draft	BWR	12/10/2005	4/30/2007	
	<a href="#">436-10</a>	Rad FSSR - Bldg 644	Final	A	4/30/2007		
	<a href="#">504-2</a>	Rad FSSR - Bldg 722; Bays 7, 9 thru 12	Agency Rev D	C	4/30/2007		
	<a href="#">773-2</a>	Rad FSSR - Bldg 248	Agency Rev D	H	5/4/2007		
	<a href="#">556-2</a>	Rad FSSR - Bldg 1086	Agency Rev	D	5/11/2007		

# Deliverable Status Report – 2/20/2007 – 5/20/2007

			D				
Don Gronstal	<a href="#">1876-4</a>	Basewide Groundwater VOC ROD	Agency Rev DF	GW	2/12/2007	3/14/2007	
	<a href="#">1892-2</a>	McClellan AFP SOP-13 version 8	Agency Rev D	GW	2/20/2007		
	<a href="#">1184-4</a>	Remedial Investigation Work Plan of Non-VOCs for GW	Agency Rev DF	GW	2/28/2007		
	<a href="#">1835-4</a>	Site Inspection Report for Non-VOCs in GW	Agency Rev DF	BWN	2/28/2007		
	<a href="#">1888-4</a>	Evaluation of Metals COPCs and COPIs	Agency Rev DF	GW	2/28/2007		
	<a href="#">598-2</a>	GMP Quarterly (CY06-3rd) Report	Agency Rev F	GW	2/28/2007		
	<a href="#">1876-5</a>	Basewide Groundwater VOC ROD	Final	GW	4/13/2007		
	<a href="#">1892-3</a>	McClellan AFP SOP-13 version 8	Draft Final	GW	3/26/2007		
	<a href="#">1184-5</a>	Remedial Investigation Work Plan of Non-VOCs for GW	Final	GW	3/30/2007		
	<a href="#">1835-5</a>	Site Inspection Report for Non-VOCs in GW	Final	BWN	3/30/2007		
	<a href="#">1888-5</a>	Evaluation of Metals COPCs and COPIs	Final	GW	3/30/2007		
	<a href="#">903-1</a>	Substrate Addition and Bioaugmentation Completion Report	Draft	GW	10/14/2003	3/30/2007	
	<a href="#">1394-</a>	2007 GW Well Installation FSP	Draft	GW	4/13/2007		



# Deliverable Status Report – 2/20/2007 – 5/20/2007

	<a href="#"><u>1</u></a>						
	<a href="#"><u>1892-4</u></a>	McClellan AFP SOP-13 version 8	Agency Rev DF	GW	4/25/2007		
	<a href="#"><u>763-1</u></a>	VOC RD Work Plan	Draft	GW	5/18/2005	4/27/2007	
	<a href="#"><u>599-1</u></a>	GMP Quarterly (CY06-4th) Report	Final	GW	4/29/2007		
Doug Fortun	<a href="#"><u>1773-4</u></a>	Capehart Gas Station Closure Report	Agency Rev F	N/A	10/25/2006	2/23/2007	
	<a href="#"><u>1774-2</u></a>	Soils Biovent (PRL S-40) O&M and Vapor Monitoring Point (VMP) Report (December 2006)	Agency Rev D	H	2/28/2007		
	<a href="#"><u>1774-3</u></a>	Soils Biovent (PRL S-40) O&M and Vapor Monitoring Point (VMP) Report (December 2006)	Final	H	3/16/2007		
	<a href="#"><u>1790-1</u></a>	Biovent (PRL S-040) O&M - VMP Report (2Q07/Semi-Annual 2007)	Draft	H	3/19/2007		
	<a href="#"><u>1772-1</u></a>	Capehart Bioventing System Shutdown/Decom Report	Draft	N/A	10/23/2006	3/23/2007	
	<a href="#"><u>1776-1</u></a>	Bioventing System Shutdown/Decom Report - Bldg 26	Draft	A	7/21/2006	3/23/2007	
	<a href="#"><u>1779-1</u></a>	Bioventing System Shutdown/Decom Report - Bldg 764	Draft	B	7/21/2006	3/23/2007	
	<a href="#"><u>1774-4</u></a>	Soils Biovent (PRL S-40) O&M and Vapor Monitoring Point (VMP) Report (December 2006)	Agency Rev F	H	3/26/2007		
	<a href="#"><u>1790-2</u></a>	Biovent (PRL S-040) O&M - VMP Report (2Q07/Semi-Annual 2007)	Agency Rev D	H	4/18/2007		
	<a href="#"><u>1772-2</u></a>	Capehart Bioventing System Shutdown/Decom Report	Agency Rev D	N/A	4/20/2007		
	<a href="#"><u>1776-</u></a>	Bioventing System Shutdown/Decom Report - Bldg 26	Agency Rev	A	4/20/2007		

# Deliverable Status Report – 2/20/2007 – 5/20/2007

	<a href="#"><u>2</u></a>		D				
	<a href="#"><u>1779-2</u></a>	Bioventing System Shutdown/Decom Report - Bldg 764	Agency Rev D	B	4/20/2007		
	<a href="#"><u>1890-1</u></a>	UST Investigation/Removal Report - Bldg 458	Draft	A	5/4/2007		
	<a href="#"><u>1790-3</u></a>	Biovent (PRL S-040) O&M - VMP Report (2Q07/Semi-Annual 2007)	Final	H	5/7/2007		
	<a href="#"><u>1772-3</u></a>	Capehart Bioventing System Shutdown/Decom Report	Final	N/A	5/11/2007		
	<a href="#"><u>1776-3</u></a>	Bioventing System Shutdown/Decom Report - Bldg 26	Final	A	5/11/2007		
	<a href="#"><u>1779-3</u></a>	Bioventing System Shutdown/Decom Report - Bldg 764	Final	B	5/11/2007		
Doug Self	<a href="#"><u>1202-1</u></a>	BCP Update (2005)	Draft	N/A	5/1/2005	4/2/2007	
	<a href="#"><u>1202-2</u></a>	BCP Update (2005)	Agency Rev D	N/A	4/3/2007		
	<a href="#"><u>1202-3</u></a>	BCP Update (2005)	Final	N/A	5/3/2007		
Jim Lu	<a href="#"><u>1813-1</u></a>	Davis Site Semi-Annual GW Monitoring Rpt, Fall 2006	Final	N/A	2/21/2007		2/14/2007
	<a href="#"><u>1867-5</u></a>	Davis Site FOSET w/CERCLA Covenant Deferral	Final	N/A	2/8/2007	3/6/2007	
	<a href="#"><u>1813-2</u></a>	Davis Site Semi-Annual GW Monitoring Rpt, Fall 2006	Agency Rev F	N/A	3/23/2007		
	<a href="#"><u>1695-</u></a>	Davis Site Phase I Treatability Study Rpt/Work Plan	Draft	N/A	7/22/2006	4/2/2007	

# Deliverable Status Report – 2/20/2007 – 5/20/2007

	<a href="#"><u>1</u></a>	Addendum					
Ken Smarkel	<a href="#"><u>1865-5</u></a>	Bldg 243 SVE EE/CA	Final	G	2/22/2007		
	<a href="#"><u>631-1</u></a>	VZ Quarterly [CY06-4th] Monitoring Rpt	Final	BW	2/15/2007	3/2/2007	
	<a href="#"><u>631-2</u></a>	VZ Quarterly [CY06-4th] Monitoring Rpt	Agency Rev F	BW	4/16/2007		
	<a href="#"><u>632-1</u></a>	VZ Quarterly [CY07-1st] Monitoring Rpt	Final	BW	5/15/2007	5/30/2007	
Kevin Depies	<a href="#"><u>1586-3</u></a>	State LUC: Parcels A5, A6a, & GW	Final	BW	3/31/2005	5/4/2007	
Molly Enloe	<a href="#"><u>1870-1</u></a>	RICS Addenda for Creek Sites: Magpie Creek, Don Julio Creek, Second Creek, and Robla Creek	Draft	BW	12/11/2006	3/21/2007	
	<a href="#"><u>1171-1</u></a>	Vernal Pool Tier 2 Ecological Risk Assessment	Draft	BW	6/2/2006	2/26/2007	
	<a href="#"><u>1171-2</u></a>	Vernal Pool Tier 2 Ecological Risk Assessment	Agency Rev D	BW	4/27/2007		
Steve Mayer	<a href="#"><u>1880-2</u></a>	Soils Data Gap Work Plan	Agency Rev D	BW	1/16/2007	3/16/2007	
	<a href="#"><u>1891-3</u></a>	Addendum to LRA Initial Parcel #3 Data Gaps Workplan	Final	BW	2/22/2007		
	<a href="#"><u>1442-1</u></a>	Focused Strategic Sites ROD	Draft	BW	8/28/2006	3/2/2007	
	<a href="#"><u>970-7</u></a>	LRA Initial Parcel ROD #2	RD/RA Schedule	IP	3/2/2007		
	<a href="#"><u>1250-2</u></a>	FOSET: Large #2	Agency Rev D	BW	1/8/2007	3/6/2007	
	<a href="#"><u>1243-</u></a>	LRA Initial Parcel RACR #2 (16 Sites)	Draft	A/B	8/1/2006	3/9/2007	

# Deliverable Status Report – 2/20/2007 – 5/20/2007

	<a href="#"><u>1</u></a>						
	<a href="#"><u>1880-3</u></a>	Soils Data Gap Work Plan	Draft Final	BW	5/16/2007		
	<a href="#"><u>967-1</u></a>	LRA Initial Parcel FS #3	Draft	IP	3/28/2004	5/1/2007	
	<a href="#"><u>1887-1</u></a>	RICS Addenda	Draft	BW	3/30/2007		
	<a href="#"><u>760-6</u></a>	FOSET: Parcels A5, A6a, & A6c	EPA & Gov Sign	BW	9/30/2004	4/30/2007	
	<a href="#"><u>970-6</u></a>	LRA Initial Parcel ROD #2	Final	IP	7/10/2006	4/30/2007	
	<a href="#"><u>1442-2</u></a>	Focused Strategic Sites ROD	Agency Rev D	BW	5/1/2007		
	<a href="#"><u>1250-3</u></a>	FOSET: Large #2	Draft Final	BW	5/7/2007		
	<a href="#"><u>1243-2</u></a>	LRA Initial Parcel RACR #2 (16 Sites)	Agency Rev D	A/B	5/8/2007		
	<a href="#"><u>1204-6</u></a>	FOSET: Large #1	EPA & Gov Sign	IP	5/10/2007		





# Regional Groundwater Management Activities

Robert J. Swartz

Sacramento Groundwater Authority

February 20, 2007



# Tonight's Presentation

- Background
  - Regional Setting
  - Water Forum Agreement
  - Sacramento Groundwater Authority
- SGA's Management Role
  - SGA Groundwater Management Plan
  - Basin Management Report
  - Regional Contamination
- Conjunctive Use Operations

# Regional Setting



- North American Groundwater Subbasin
  - Parts of Placer, Sutter, and Sacramento counties
- SGA - 1/3 of subbasin
  - 195 square miles
  - 260 supply wells
  - 500,000 customers
  - Groundwater about 30% of supply (90 TAF)

# What is the Water Forum?



- 1980s and early 1990s:
  - Growing environmental concerns on American River
  - Decades of water litigation in the region with no resolution in sight
  - Persistent groundwater cones of depression and contamination
  - Rapid urban growth and water demands
- Consensus-based process begun in 1993 between representatives of the public, environment, business, water





# What is the Water Forum Agreement?

- Document signed in April 2000
  - 40 different stakeholder groups
- Co-equal objectives
  - Provide safe reliable water supply
  - Preserve Lower American River
- Seven major elements
  - Increased Surface Water Diversions
  - Groundwater Management



For more info on the Water Forum:

[www.waterforum.org](http://www.waterforum.org)

# Planned American River Diversions Resulting from the WFA

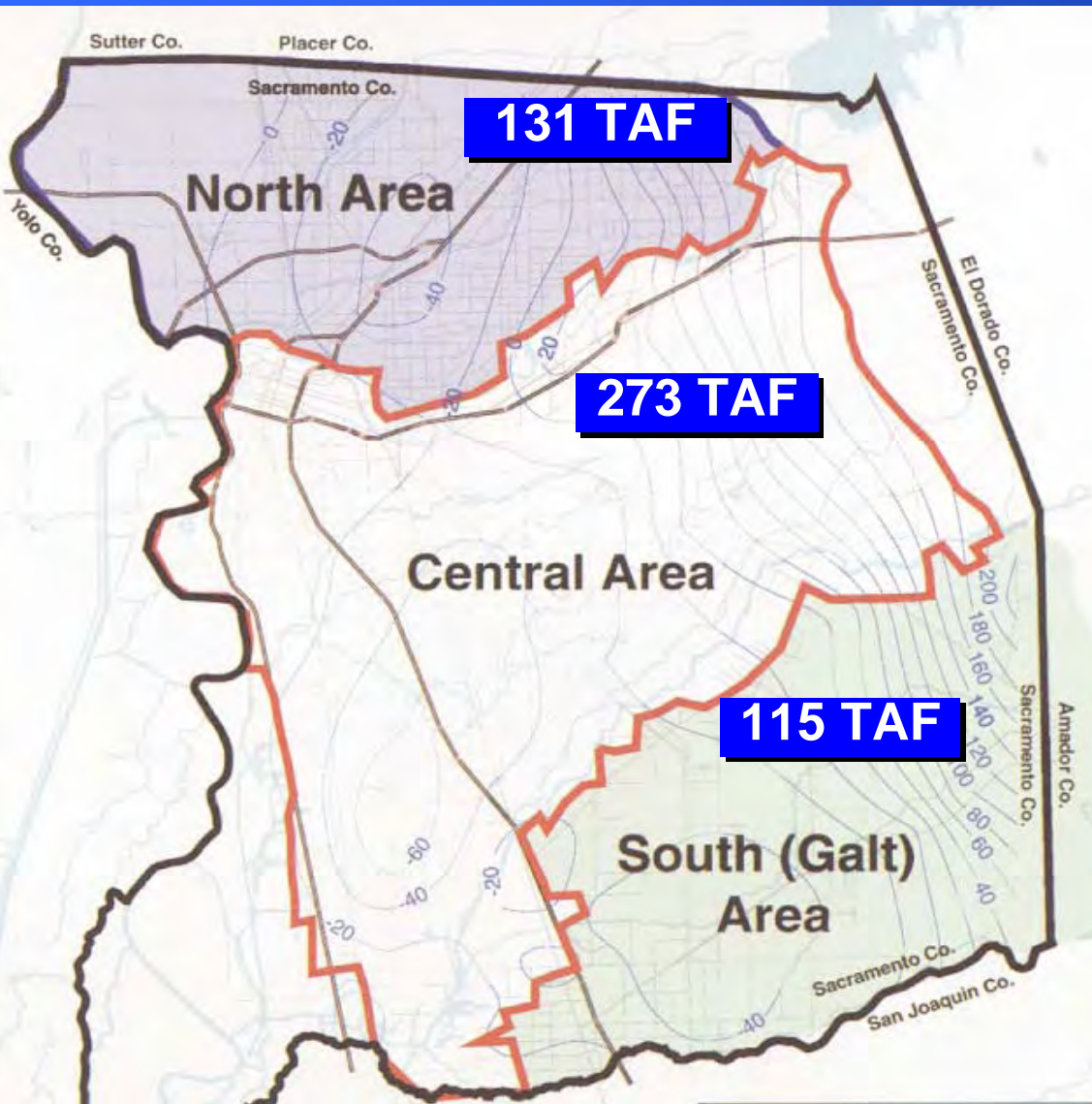
Current Diversions (1995) = 190,000 AF

Projected Diversions (2030)

Wet/Average = 450,000 AF

Driest = 190,000 AF

# WFA GW Management Areas



Sacramento Groundwater  
Authority

Central Sacramento County  
Groundwater Forum

Southeast Sacramento County  
Agricultural Water Authority

# Sacramento Groundwater Authority

- Local public agency formed in 1998
- 2.2 full-time staff
- Formed as a joint powers authority
  - Citrus Heights, Folsom, and Sacramento and Sacramento County
  - Police powers
- Signatories allowed overlying purveyors to act as the governing body

# SGA Members

California-American WC

Carmichael WD

Citrus Heights WD

Del Paso Manor WD

Fair Oaks WD

Folsom, City of

Golden State WC

Natomas Central MWC

Orange Vale WC

Rio Linda/Elverta CWD

Sacramento, City of

Sacramento, County of

Sacramento Suburban WD

San Juan WD

Ag Representative

Self-supplied Representative

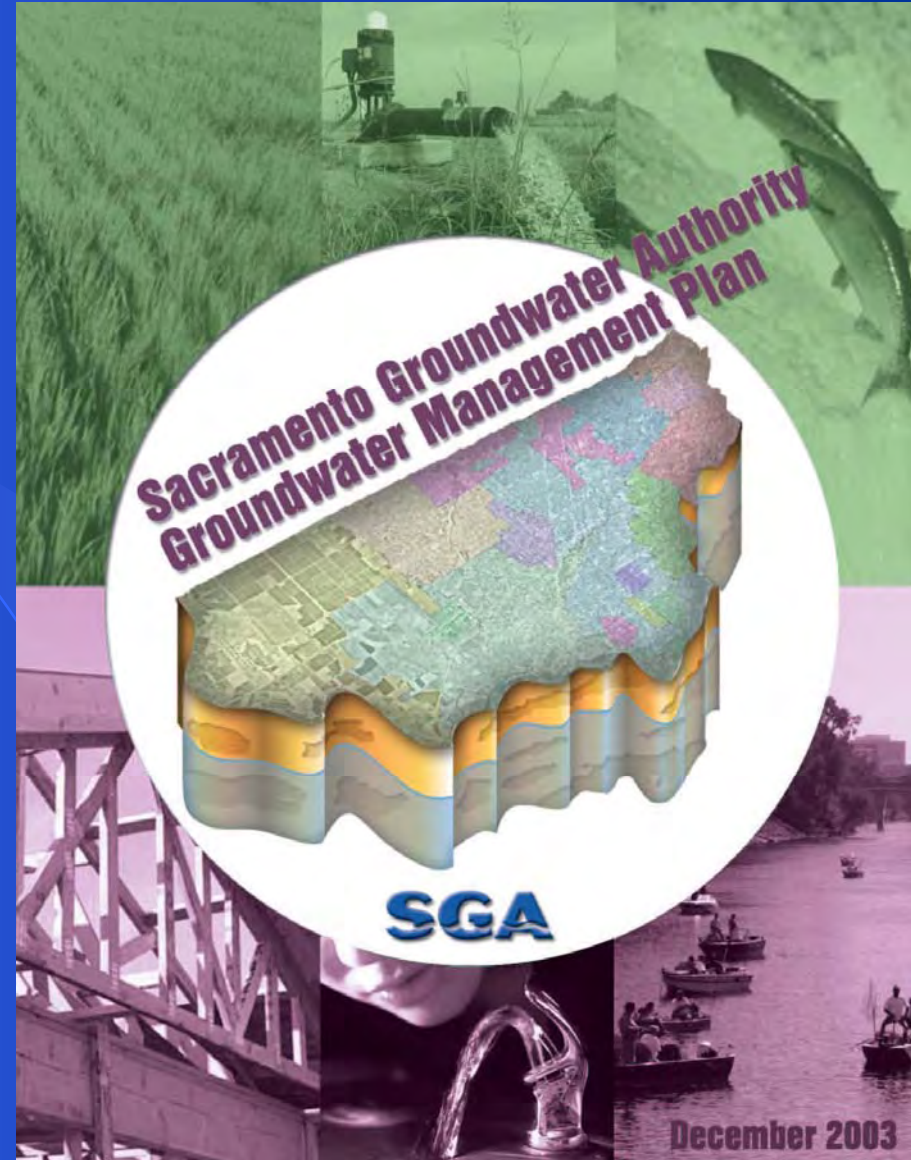
# SGA's Role

- Provide an effective institutional framework for managing the basin consistent with WFA
  - Agencies operate autonomously
- Develop and implement a groundwater management plan to ensure basin sustainability
- Develop and implement strategies to safeguard water quality
- Develop policies to encourage conjunctive use to ensure long-term sustainability of basin



# Groundwater Management Plan

- Adopted December 2003
- Available at [www.sacramento.gov/SGA/SGA.htm](http://www.sacramento.gov/SGA/SGA.htm)
- Key Elements
  - Data Management System
  - Monitoring Program
  - Model Update



# Basin Management Report

## Sacramento Groundwater Authority



Basin Management Report  
2004-2005

May 2006

- 2004 was first report
- 2006 most recent
- To be published biennially
- Available at

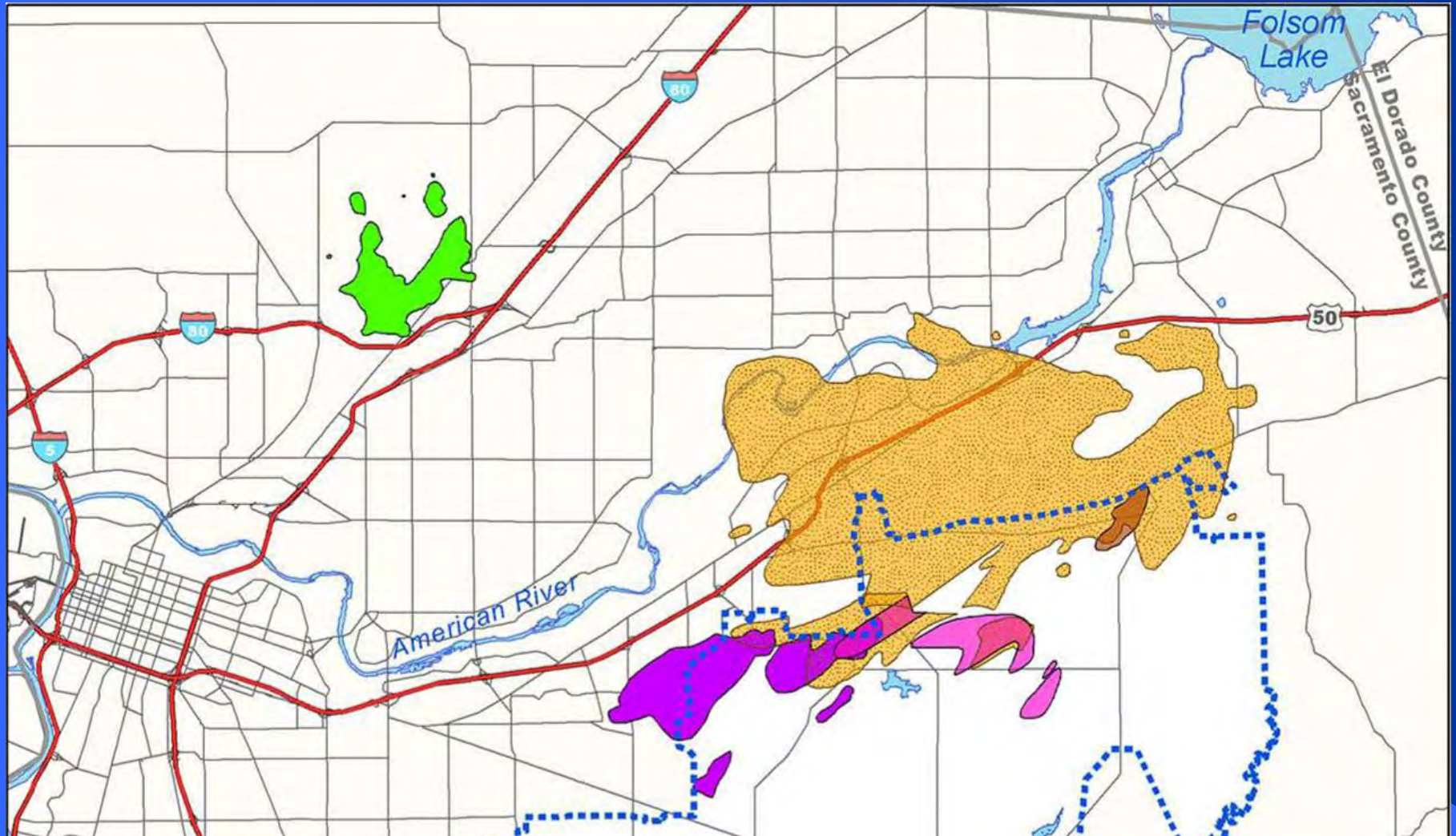
[www.sgah2o.org](http://www.sgah2o.org)



# Regional Contamination

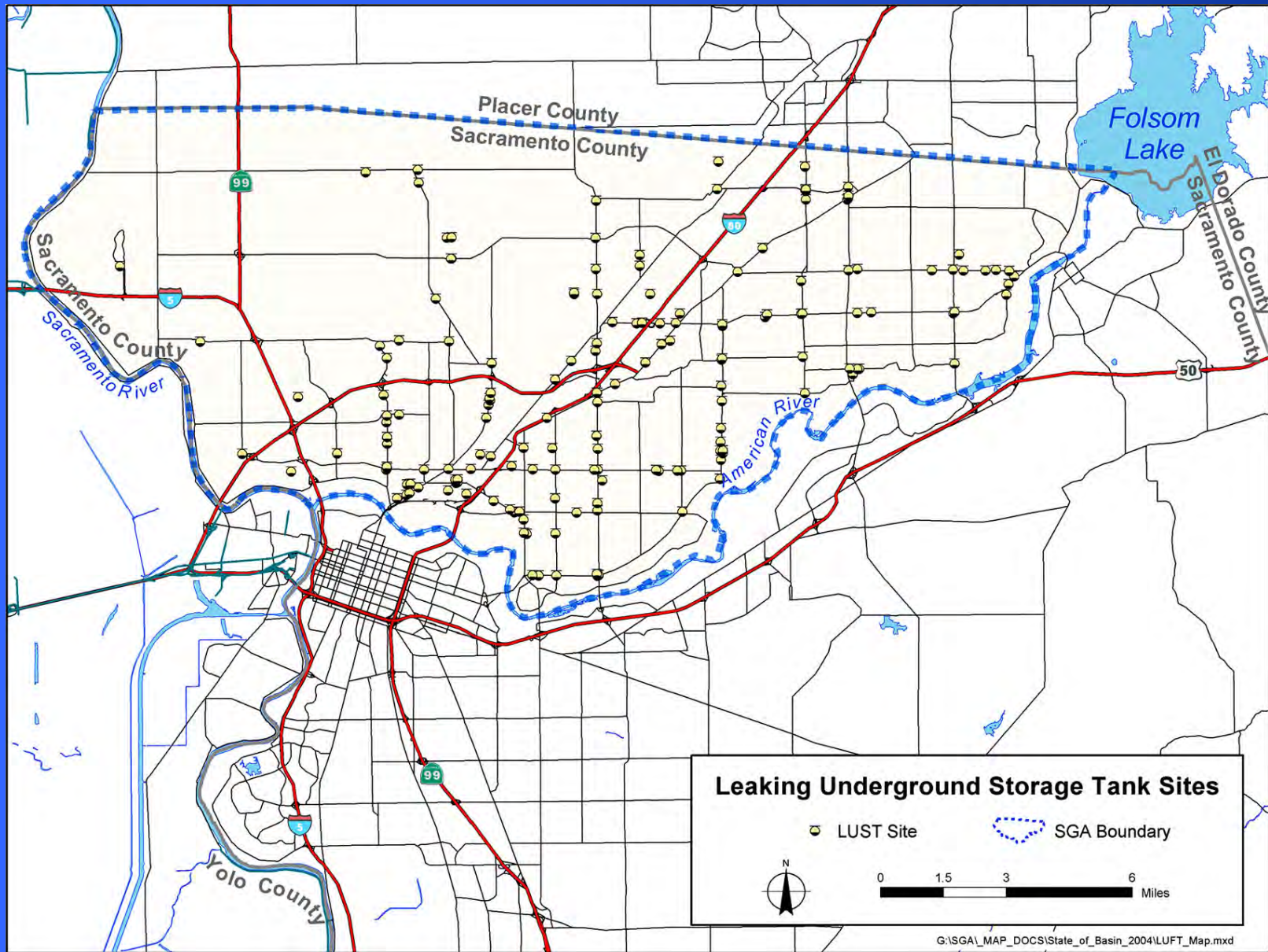
- Key GMP action was to interact with regulatory agencies overseeing clean-up
- Started committee as result of detection of NDMA at Carmichael in Feb 2004
- Meet regularly with RPs and regulators
- Demonstrating that working with water purveyors more of a help than hindrance
  - Carmichael project
  - McClellan

# Contaminant Plumes





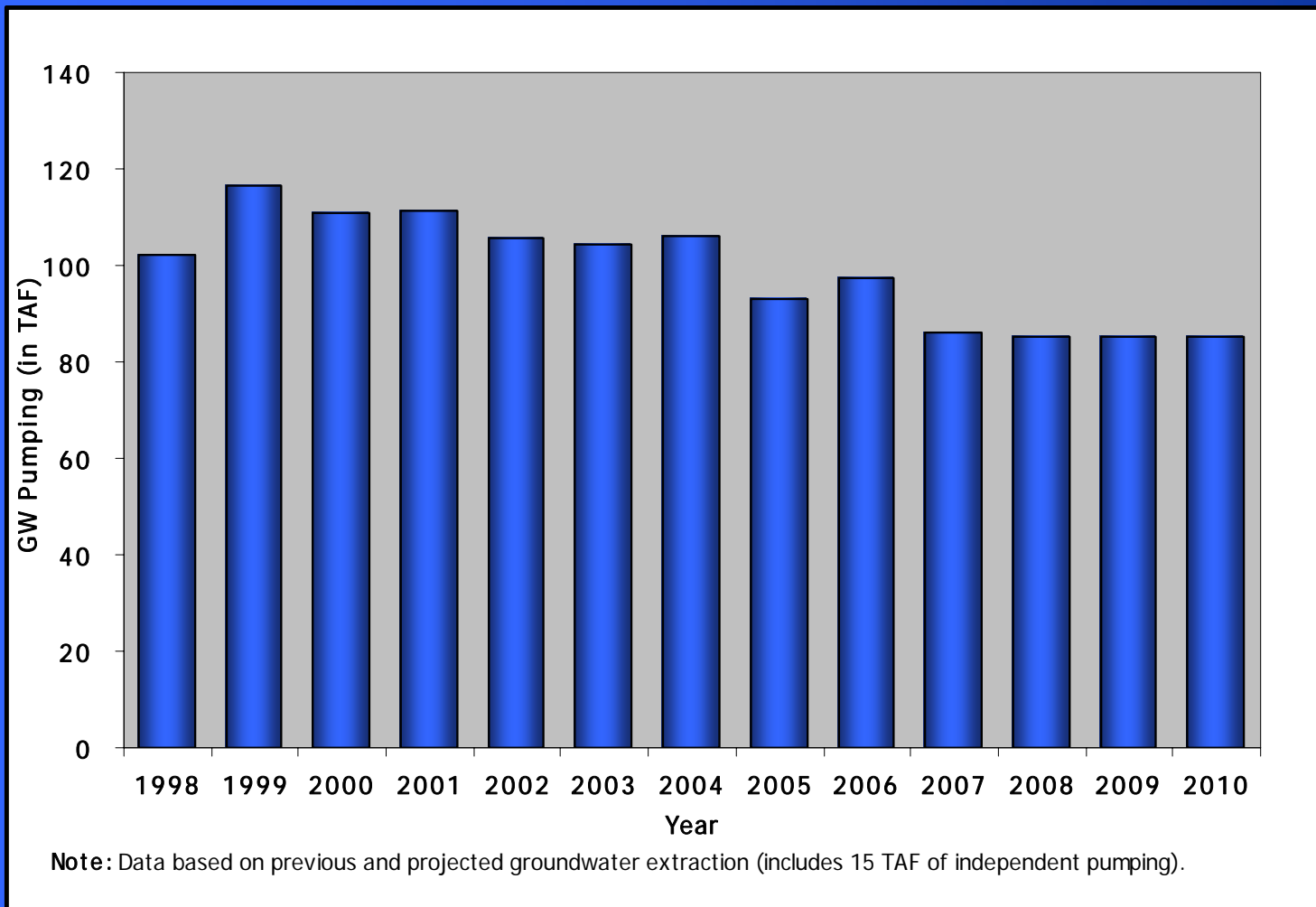
# Active Leaking Tank Sites



# Conjunctive Use Operations

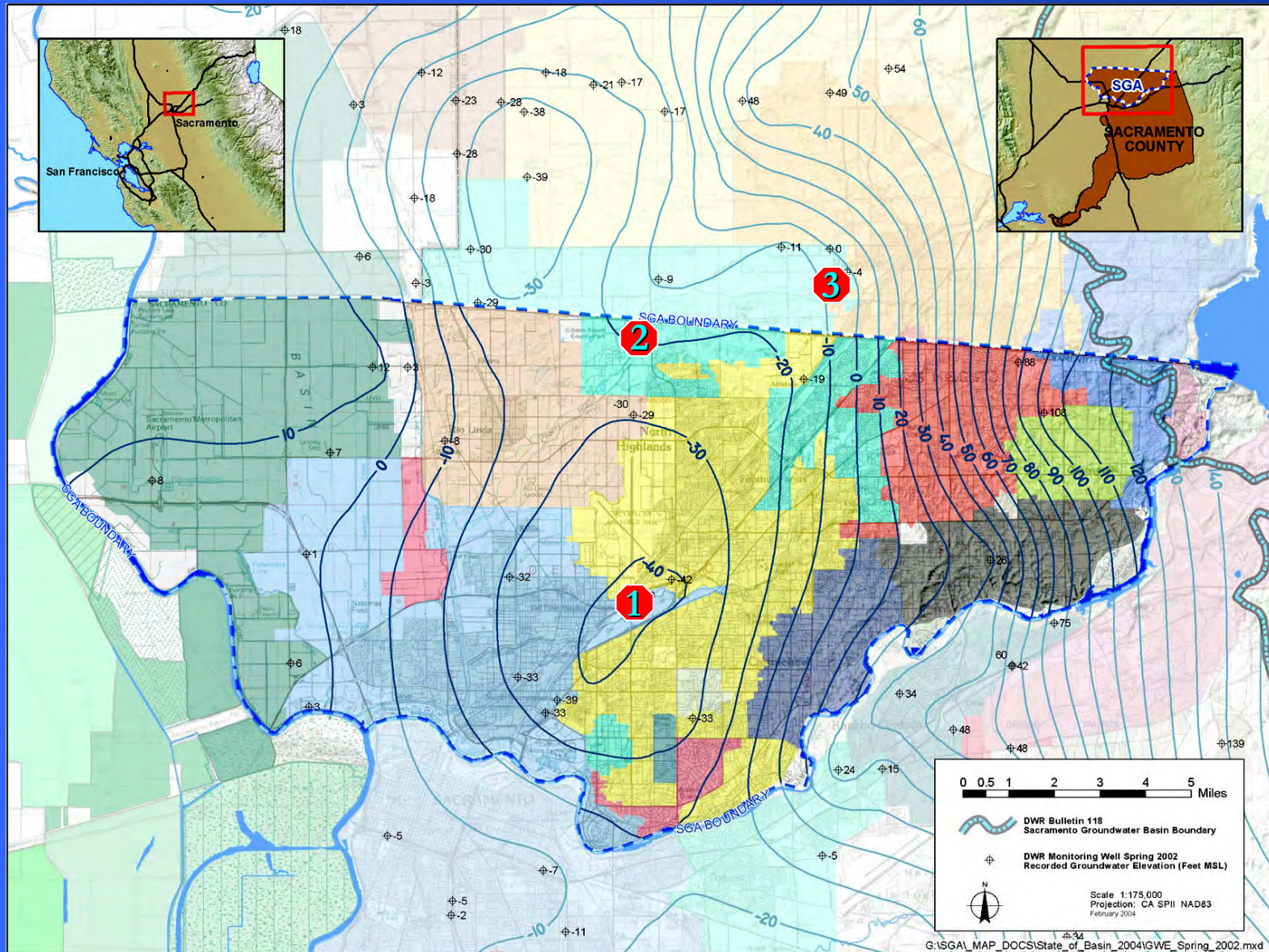
- Commitment through Water Forum Agreement
- 1995 through 2004 was very wet period in region
- Some agencies that predominantly relied on groundwater have gained access to surface water during this period

# Groundwater Extraction Trends

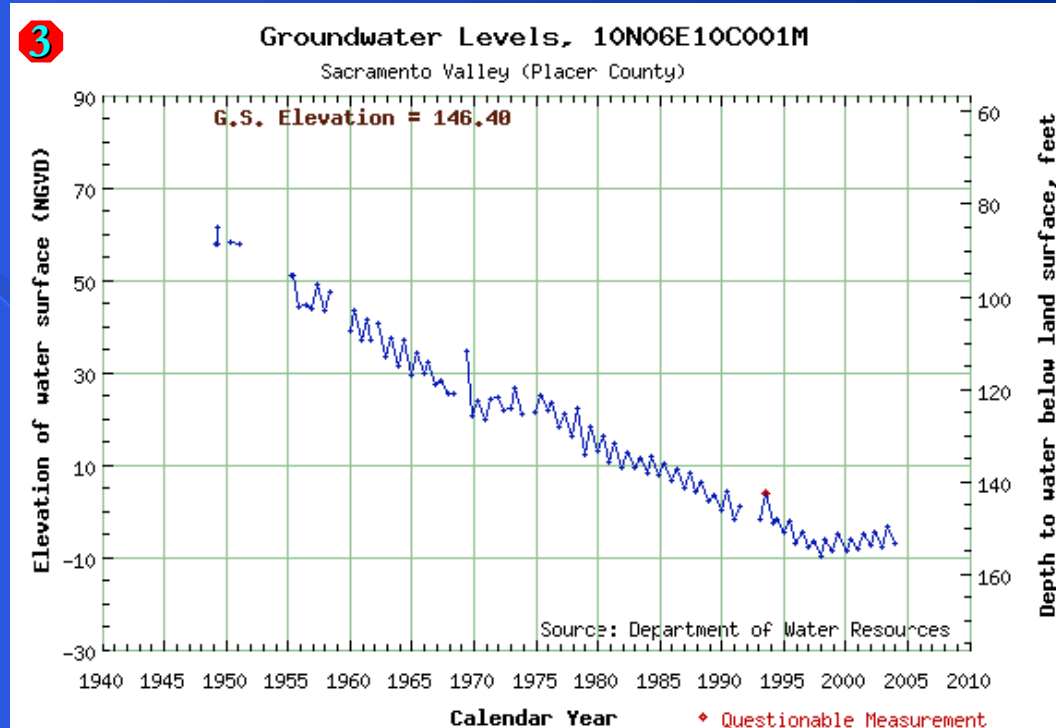
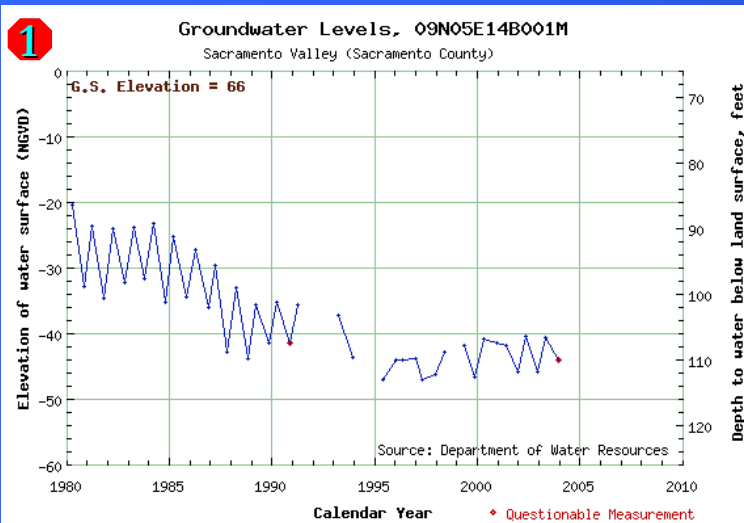
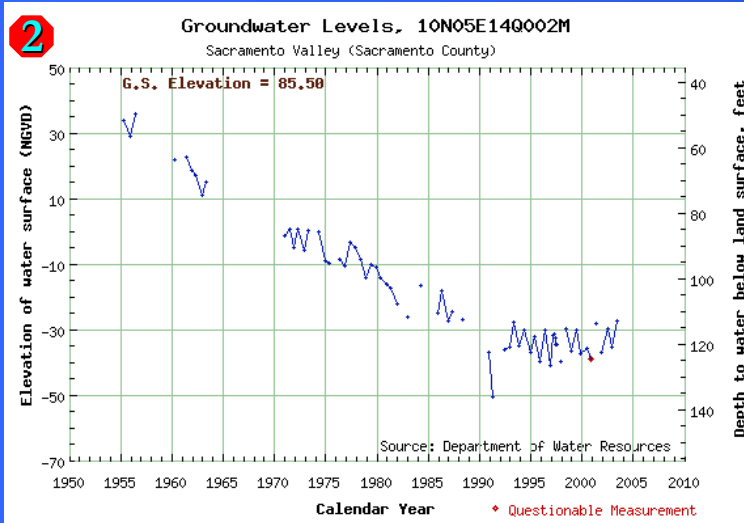




# Groundwater Cone of Depression

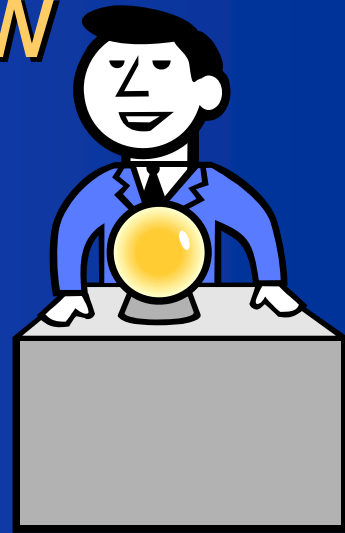


# Long-term Groundwater Levels



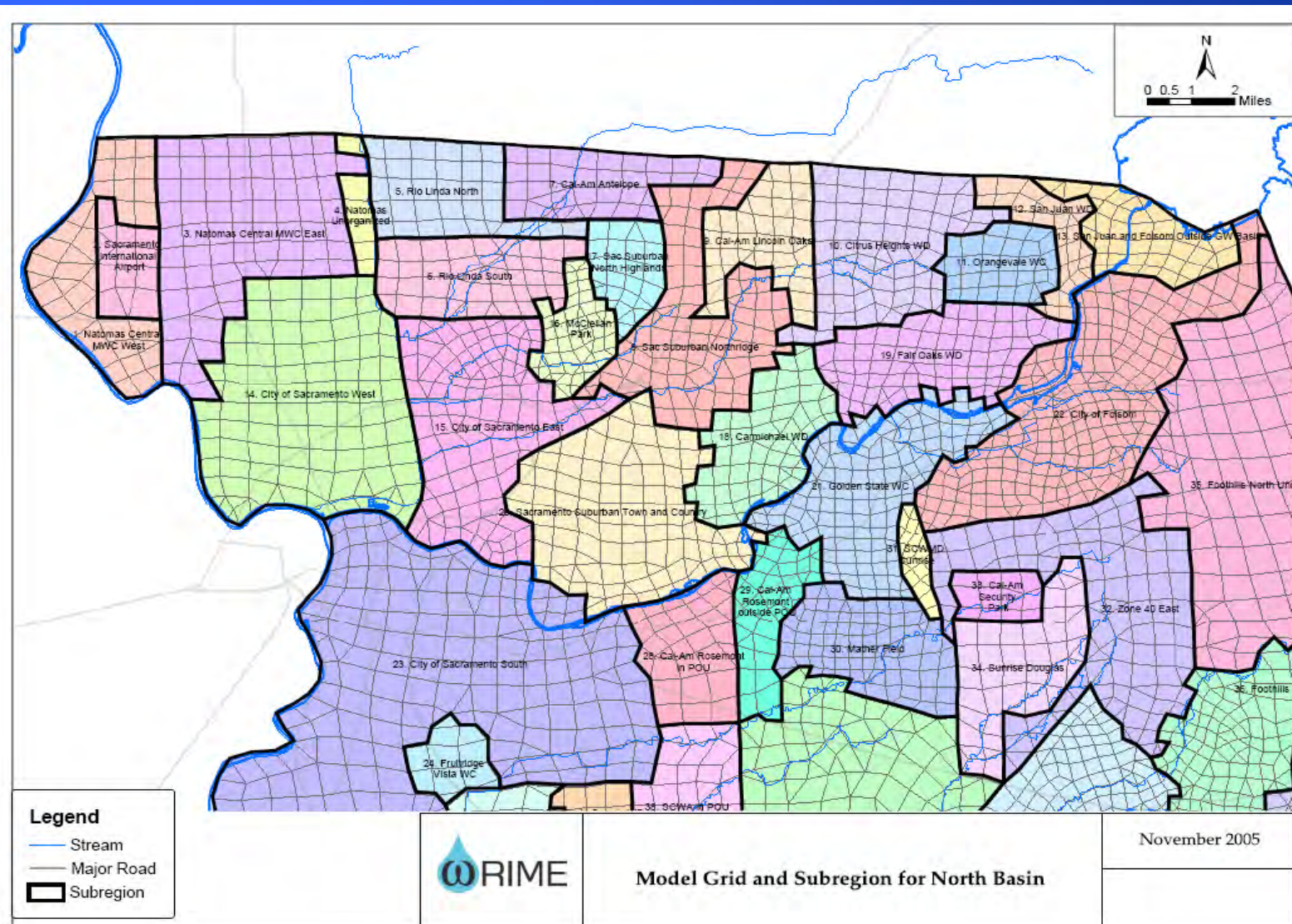
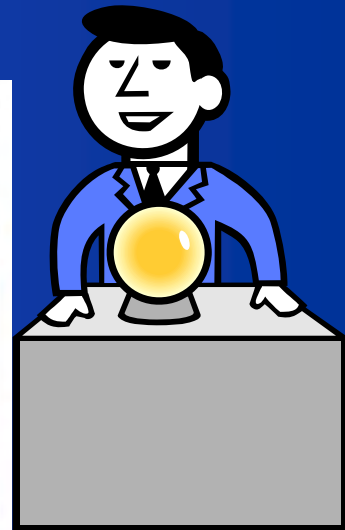
# What We Think We Know

- Groundwater extraction around perimeter of base in normal years not expected to get much lower than current observations
- Extraction in hot or dry periods could go up significantly
- Success with future proposed water market could increase groundwater extractions
- Regional model will soon be updated to better simulate future conditions





# What We Think We Know



# For More Information

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