

CHINO BASIN WATERMASTER



NOTICE OF MEETINGS

Thursday, June 24, 2004

9:00 a.m. Advisory Committee Meeting

11:00 a.m. Watermaster Board Meeting

AT THE CHINO BASIN WATERMASTER OFFICES

*9641 San Bernardino Road
Rancho Cucamonga, CA 91730
(909) 484-3888*



CHINO BASIN WATERMASTER

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

AGENDA PACKAGE

**CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING**

9:00 a.m. – June 24, 2004
At The Offices Of
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

Note: All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by one motion in the form listed below. There will be no separate discussion on these items prior to voting unless any members, staff, or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.

A. MINUTES

1. Minutes of the Advisory Committee meeting held May 27, 2004 (Page 1)

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of May 2004 (Page 13)
2. Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2003 through April 30, 2004 (Page 17)
3. Treasurer's Report of Financial Affairs for the Period April 1 through April 30, 2004 (Page 20)
4. Profit & Loss Budget vs. Actual July 2003 through April 2004 (Page 21)

C. COST OF LIVING ADJUSTMENT (COLA)

Consider Approval for 2.5% COLA included in the FY 2004-05 Budget, beginning July 1, 2004

II. BUSINESS ITEMS

A. CONSIDER COOPERATIVE MONITORING AGREEMENT BETWEEN IEUA AND WATERMASTER FOR BASIN MONITORING ACTIVITIES

Consider the IEUA Cooperative Agreement for the Basin Monitoring Activities (Page 23)

III. REPORTS/UPDATES

A. WATERMASTER GENERAL LEGAL COUNSEL REPORT

1. Attorney/Manager Process – Continuance of MVWD Motion
2. Santa Ana River Application Process

B. STAFF REPORT

1. Update on the Draft Chino I and Chino II Desalter Projects Groundwater Monitoring and Mitigation Plan (Page 41)
2. MWD Refund for Water Sales from 2002/2003 of \$188,113.38 (Page 97)
3. \$132,000 Reimbursement from MWD – Per The Dry Year Yield Funding Agreement
4. Update Regarding the Recharge Improvement Project

C. INLAND EMPIRE UTILITIES AGENCY

1. Rialto Pipeline Shutdown – Task Force Evaluation to Improve Reliability *(Page 101)*
2. Wastewater Master Plan/Urban Water Management Plan Update (oral)
3. MWD DYY Project Status and Planned Replenishment Deliveries During FY 2004/2005 (oral)
4. Water Resources Report *(Page 109)*
5. Water Conservation Status Report *(Page 115)*
6. Recycled Water Program *(Page 117)*
7. Chino Basin Facilities Improvement Project (Recharge) *(Page 121)*
8. State/Federal Legislation *(Page 125)*
9. Public Relations *(Page 149)*

IV. INFORMATION

1. Black & Veatch Technical Memorandum – Agricultural Land Conversion Study *(Page 151)*

V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VIII. FUTURE MEETINGS

June 21, 2004	1:00 p.m.	AGWA Meeting
June 24, 2004	9:00 a.m.	Advisory Committee Meeting
	11:00 a.m.	Watermaster Board Meeting
June 24, 2004	1:00 p.m.	Hydraulic Control Atty/Mgr Technical Workgroup
June 29, 2004	12:00 p.m.	Attorney/Manager Meeting @ BB&K
July 8, 2004	9:00 a.m.	Joint Appropriative & Non-Agricultural Pool Meeting
July 14, 2004	12:00 p.m.	Attorney/Manager Meeting @ BB&K
July 19, 2004	9:00 a.m.	Agricultural Pool Meeting @ IEUA
July 21, 2004	9:00 a.m.	MZ1 Technical Committee Meeting
July 22, 2004	9:00 a.m.	Advisory Committee Meeting
	11:00 a.m.	Watermaster Board Meeting

Meeting Adjourn

**CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING**

11:00 a.m. – June 24, 2004
At The Offices Of
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

PLEDGE OF ALLEGIANCE

AGENDA - ADDITIONS/REORDER

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- 4. Update Regarding the Recharge Improvement Project

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V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Pursuant to Article 2.6 of the Watermaster Rules & Regulations, a Confidential Session may be held during the Watermaster Board meeting for the purpose of discussion and possible action regarding Personnel Matters and/or Potential Litigation.

VIII. FUTURE MEETINGS

June 21, 2004	1:00 p.m.	AGWA Meeting
June 24, 2004	9:00 a.m.	Advisory Committee Meeting
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July 22, 2004	9:00 a.m.	Advisory Committee Meeting
	11:00 a.m.	Watermaster Board Meeting

Meeting Adjourn



CHINO BASIN WATERMASTER

June 24, 2004

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

I. CONSENT CALENDAR

A. MINUTES

1. Advisory Committee Meeting –
May 27, 2004

Draft Minutes
CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING
May 27, 2004

The Advisory Committee Meeting was held at the offices of the Chino Basin Watermaster, 9641 San Bernardino Road, Rancho Cucamonga, California, on May 27, 2004 at 9:00 a.m.

ADVISORY COMMITTEE MEMBERS PRESENT

Appropriative Pool

Ken Jeske, Chair
Nathan deBoom, Vice-Chair
Dave Crosley
Henry Pepper
Ray Wellington
Gerald J. Black
Robert DeLoach
Arnold Rodriguez
James T. Bryson

City of Ontario
Milk Producers Council
City of Chino
City of Pomona
San Antonio Water Company
Fontana Union Water Company
Cucamonga Valley Water District
Santa Ana River Water Company
Fontana Water Company

Agricultural Pool

Pete Hall
Bob Feenstra

Sate of California Institute for Men
Milk Producers Council

Non-Agricultural Pool

Bob Bowcock

Vulcan Materials Company (Calmat Division)

Watermaster Board Members Present

Paul Hofer
Terry Catlin

Agricultural Pool, Crops
Inland Empire Utilities Agency

Watermaster Staff Present

John Rossi
Gordon Treweek
Danielle Maurizio
Sheri Rojo
Sherri Lynne Molino

Chief Executive Officer
Project Engineer
Senior Engineer
Finance Manager
Recording Secretary

Watermaster Consultants Present

Michael Fife
Mark Wildermuth

Hatch & Parent
Wildermuth Environmental Inc.

Others Present

Rich Atwater
Sondra Elrod
Kathy Tiegs
Dave Hill
Gordon Johnson
Josephine Johnson
Lorraine Aoy Edwards
Denis Wolcott
Raul Garibay
Barrett Kehl
Bill Stafford
John Huitsing

Inland Empire Utilities Agency
Inland Empire Utilities Agency
Inland Empire Utilities Agency
Inland Empire Utilities Agency
Metropolitan Water District
Monte Vista Water District
Metropolitan Water District
Metropolitan Water District
City of Pomona
Chino Basin Water Conservation District
Marygold Water Company
Milk Producers Council

Steve Garten	Southern California Water Company
Jim Johns	Three Valleys Municipal Water District
Cindy DeChaine	Three Valleys Municipal Water District
Rich Hansen	Three Valleys Municipal Water District
Terry Mesa	City of LaVerne
Robert Tolk	Monte Vista Water Company
Robert Nobels	State of California, CIM

The Advisory Committee meeting was called to order by Chair Jeske at 9:05 a.m.

AGENDA - ADDITIONS/REORDER

Added Item Prior to the Consent Calendar: Rialto Pipeline Emergency Shutdown

Gordon Johnson from the Metropolitan Water District gave a presentation on the Rialto Pipeline Emergency Shutdown and noted there was a handout on the back table also regarding this issue. Mr. Johnson stated, Three Valleys Municipal Water District and Inland Empire residents are being asked to suspend non-essential water use during the pipeline shutdown for emergency repairs on the major water line to begin June 7, 2004. Mr. Johnson presented the details of the repairs that needed to be made and a brief discussion ensued. Denis Wolcott from the Metropolitan Water District commented on the communications/publications that would be broadcast via television and/or newspapers next week which will allow the public and water agencies time to prepare for this event. Noting this task will be finalized shortly. Mr. Wolcott informed the Chino Basin Watermaster that if we receive phone calls in this regard to refer them to their local water agency for their questions and concerns.

I. CONSENT CALENDAR

A. MINUTES

1. Minutes of the Advisory Committee meeting held April 22, 2004

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of April 2004
2. Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2003 through March 31, 2004
3. Treasurer's Report of Financial Affairs for the Period March 1 through March 31, 2004
4. Profit & Loss Budget vs. Actual July 2003 through March 2004

C. STATUS REPORT #10

Authorize Staff and Counsel to File Report with the Court for December 2003 to February 2004 Period

D. WATER TRANSACTION

1. Consider Approval for Transaction of Notice of Sale or Transfer from Southern California Water Company to Fontana Water Company the Amount of 2000 acre-feet
2. Consider Approval for Transaction of Notice of Sale or Transfer from West Valley Water District to Monte Vista Water District the Amount of 650 acre-feet
3. Consider Approval for Transaction of Notice of Sale or Transfer from City of Pomona to Fontana Water Company the Amount of 500 acre-feet

*Motion by Wellington, second by DeLoach, and by unanimous vote
Moved to approve Consent Calendar Item D, as presented*

II. BUSINESS ITEMS**A. 2004/2005 WATERMASTER BUDGET**

Mr. Rossi stated there were no changes to the presented budget from the last package and also noted the budget was unanimously approved by the Pool Committee Members. No other discussion took place.

Motion by DeLoach, second by Black, and by unanimous vote

Moved to approve the 2004/2005 Watermaster Budget, as presented

B. CONSIDER AGREEMENT FOR BASIN MONITORING PROGRAM FOR NITROGEN/TDS IN THE SANTA ANA RIVER WATERSHED

Mr. Rossi commented this consideration was coming to the Advisory by unanimous recommendation by the Pool Committee Members. Mr. Rossi reviewed the Agreement and stated there would be tremendous benefit from the Agreement. The question of whether or not the \$18,500 cost was going to be every year or every three years was presented. Mr. Rossi stated this cost would be incurred every three years. No other discussion took place.

Motion by Wellington, second by Crosley, and by unanimous vote

Moved to approve the Agreement for Basin Monitoring Program for Nitrogen/TDS in the Santa Ana River Watershed, as presented

C. DISCUSS AGREEMENT BETWEEN IEUA AND WATERMASTER FOR BASIN MONITORING ACTIVITIES

Mr. Rossi noted this item was not being presented for action at this meeting, although it would be brought back in June for consideration when the committee members had sufficient time to review the presented data. Mr. Rossi asked the committee members to turn to page 133 of the packet to begin reviewing the existing Tables. Mr. Rossi stated there would be volume laboratory discounts along with other benefits gained by this Agreement. A brief discussion ensued and Mr. Rossi stated this item would be on the agenda for next month.

D. CONSIDER AGREEMENT BETWEEN OCWD, MWDOC, IEUA, AND WATERMASTER FOR THE JOINT USE OF SERVICE CONNECTION OC-59

Mr. Rossi reviewed this Agreement and noted there were no other changes being made to this Agreement other than adding Watermaster as part of the Agreement. Mr. Atwater interjected making the Committee members aware that Three Valleys Municipal Water District had recently requested to be added to the Agreement. Mr. Rossi stated this request was unanimously approved at the Pool meetings. A discussion regarding the tracking of the water took place and Mr. Rossi ensured the Committee that Watermaster will be able to track to track the water.

Motion by DeLoach, second by Bowcock, and by unanimous vote

Moved to approve the Agreement between OCWD, MWDOC, IEUA, Watermaster, and Three Valleys Water District (to be added to the Agreement prior to signing), as presented

III. REPORTS/UPDATES**A. WATERMASTER GENERAL LEGAL COUNSEL REPORT****1. Attorney/Manager Meeting – April 28, 2004**

Counsel Fife commented the Attorney/Manager meetings are progressing well and reminded the Committee members who had been given "homework" assignments, they were due today. Counsel Fife noted the next meeting was scheduled for June 2 and the subsequent meeting following that would be on June 9.

2. Patent Issue

Counsel Fife commented on the recently awarded patent for recharge basins and informed the Committee this item was added to the Legal Affairs Committee Agenda at the ACWA conference in Monterey. Counsel Fife confirmed that several other water agencies

had heard from the gentleman who obtained the patent and noted one of them had actually paid him for his services.

3. Wilson v. Watermaster
Counsel Fife informed the Committee members this case has been settled and noted there was an additional handout on the back table regarding the settlement.
4. Hearing Date For Approval Of DYY Storage Agreement
Counsel Fife confirmed the filing of the Dry Year Yield Storage Agreement pleading with the court on May 12, 2004 and stated the hearing is set for June 24, 2004. Noting Inland Empire Utilities Agency and Three Valleys Municipal Water District have now approved the Agreement and once the court approves it Watermaster will also sign it. Additionally, Counsel Fife anticipates all to go well in regards to the court approving this agreement.

Added:

5. Chino Land and Water Case
Counsel Fife informed the Committee that the Chino Land & Water case which was submitted to the Supreme Court was denied to be heard by the Supreme Court.

B. CEO/STAFF REPORT

1. Discuss Draft Recharge Operating Plan
Mr. Rossi presented the draft operating plan for recharge and asked the Committee to turn to page 151 of the packet for review. Mr. Rossi noted this has been a challenging year due to the 23,600 acre feet of requirement to recharge water, 6,500 acre feet of that for the MZ1 Peace Agreement requirement, the other 16,600 is the replenishment obligation for over pumping from the prior year. One of the challenges was a direct result from the fires and then the Christmas day storm bringing a lot of silt and ash down into the basins, taking Montclair off line which is where the majority of recharge occurs. Mr. Rossi reviewed the table discussing the conjunctive use plan for the new Dry Year Yield (DYY) Metropolitan Water District (MET) program and the replenishment deliveries in detail. Mr. Rossi agrees Watermaster should obtain as much wet water as we can because of the benefits to the basin. Discussion ensued regarding the cyclic account as well as safe yield issues.
2. Discuss the Draft Chino I and Chino II Desalter Projects Groundwater Monitoring and Mitigation Plan
Mr. Rossi commented this was the Chino Basin Desalter Authority's Draft plan and that Tom O'Neil of Jurupa Community Service Department was contacted to put together a presentation at the Pool meetings in June to fully explain all aspects of this plan. Mr. Rossi stated that the Agricultural Pool Committee Members were very interested in this plan at the last Pool meeting and had requested a full presentation be made with this regard. Mr. Rossi noted this item will be on the Agenda for next month.

C. INLAND EMPIRE UTILITIES AGENCY

Note: Due to the added Rialto Pipeline Shutdown presentation at the beginning of the meeting, IEUA passed on commenting on their section.

1. Rialto Pipeline Shutdown Next Winter (Repairs)
No comment was made regarding this item.
2. State Budget Impacts on IEUA
No comment was made regarding this item.
3. MWD DYY Project Status & Planned Replenishment Deliveries During FY 2004/05
No comment was made regarding this item.
4. Water Resources Report
No comment was made regarding this item.

- 5. Water Conservation Status Report
No comment was made regarding this item.
- 6. Recycled Water Program
No comment was made regarding this item.
- 7. Chino Basin Facilities Improvement Project (Recharge)
No comment was made regarding this item.
- 8. State/Federal Legislation
No comment was made regarding this item.
- 9. Public Relations
No comment was made regarding this item.

IV. POOL MEMBER COMMENTS

Chair Jeske wished Mr. Rossi all the best at Western Municipal Water District and thanked him for all his hard work and efforts on behalf of Chino Basin Watermaster. Chair Jeske reminded the Pool members there would be a luncheon and presentation to Mr. Rossi at noon.

Mr. Rossi thanked the Committee members for a great three years and expressed his appreciation for all the assistance they had given him during his time at Watermaster.

V. OTHER BUSINESS

The question was presented to the Committee members regarding Mr. Rossi's replacement. A brief discussion ensued regarding the person who would be taking Mr. Rossi's place in the interim as well as long term; along with how the replacement issue would be handled, such as, an agency, advertisement, etc. Chair Jeske stated this item will be addressed during the closed session at the Watermaster Board meeting today and that he would keep all parties apprised as to the outcome of that meeting.

VI. FUTURE MEETINGS

May 24, 2004	11:00 a.m.	Attorney/Manager Meeting @ BB&K
May 27, 2004	9:00 a.m.	Advisory Committee Meeting
	11:00 a.m.	Watermaster Board Meeting
June 2, 2004	12:00 p.m.	Attorney/Manager Meeting @ BB&K
June 9, 2004	9:00 a.m.	Attorney/Manager Meeting @ BB&K
June 10, 2004	3:00 p.m.	Appropriative & Non-Agricultural Pool Meeting
June 17, 2004	9:00 a.m.	Agricultural Pool Meeting @ IEUA
June 24, 2004	9:00 a.m.	Advisory Committee Meeting
	11:00 a.m.	Watermaster Board Meeting

The Advisory Committee Meeting Adjourned at 10:15 a.m.

Secretary: _____

Minutes Approved: _____

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CHINO BASIN WATERMASTER

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

I. CONSENT CALENDAR

A. MINUTES

1. Watermaster Board Meeting -
May 27, 2004

Draft Minutes
CHINO BASIN WATERMASTER
BOARD MEETING
May 27, 2004

The Watermaster Board Meeting was held at the offices of the Chino Basin Watermaster, 9641 San Bernardino Road, Rancho Cucamonga, California, on May 27, at 11:00 a.m.

WATERMASTER BOARD MEMBERS PRESENT

Robert Neufeld, Chair	Cucamonga Valley Water District
Terry Catlin, Vice-Chair	Inland Empire Utilities Agency
Geoffrey Vanden Heuvel	Agricultural Pool, Dairy
Paul Hofer	Agricultural Pool, Crops
Bob Bowcock	Vulcan Materials Company
Bill Kruger	City of Chino Hills
Donald Schroeder	Western Municipal Water District
David DeJesus	Three Valleys Municipal Water District

Watermaster Staff Present

John Rossi	Chief Executive Officer
Gordon Treweek	Project Engineer
Danielle Maurizio	Senior Engineer
Sheri Rojo	Finance Manager
Sherri Lynne Molino	Recording Secretary

Watermaster Consultants Present

Michael Fife	Hatch & Parent
Mark Wildermuth	Wildermuth Environmental Inc.
Dave Argo	Black & Veatch

Others Present

Josephine Johnson	Monte Vista Water District
Ken Jeske	City of Ontario
Dave Crosley	City of Chino
Henry Pepper	City of Pomona

The Watermaster Board Meeting was called to order by Chair Neufeld at 11:00 a.m.

AGENDA - ADDITIONS/REORDER

Mr. Rossi will discuss the Rialto Emergency Pipeline shutdown in CEO/STAFF REPORT as an added item

I. CONSENT CALENDAR

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3. Consider Approval for Transaction of Notice of Sale or Transfer from City of Pomona to Fontana Water Company the Amount of 500 acre-feet

*Motion by Kruger, second by Catlin, and by unanimous vote
Moved to approve Consent Calendar Item D, as presented*

II. BUSINESS ITEMS**A. 2004/2005 WATERMASTER BUDGET**

Mr. Rossi stated there were no changes to the presented budget from the last package and also noted the budget was unanimously approved by the Pools and the Advisory Committee Members. A brief discussion ensued regarding under estimating expenditures for engineering services.

*Motion by DeJesus, second by Kruger, and by unanimous vote
Moved to approve the 2004/2005 Watermaster Budget, as presented*

B. CONSIDER AGREEMENT FOR BASIN MONITORING PROGRAM FOR NITROGEN/TDS IN THE SANTA ANA RIVER WATERSHED

Mr. Rossi referred to page 107 of the packet noting this is an agreement with the members of the TIN/TDS task force and a requirement from the Regional Board pertaining to the Basin Plan Amendment for all discharges along the Santa Ana River which will monitor effluent and water quality being discharged into the river. Mr. Rossi stated, within this basin we want to do extensive monitoring on the river for Maximum Benefit, noting this is a very positive action in which we are acquiring several partners for this monitoring program. Mr. Rossi confirmed Watermaster would get all the data which would allow us to provide data to Wildermuth for their model, commenting that Wildermuth is the consultant on this project. The question of Watermaster's contribution to this task force was presented. Mr. Rossi confirmed the staff is being hired through consultants to do the work; SAWPA administrates the rest, we would not contribute any time other than attending meetings. Mr. Rossi mentioned the \$18,500 dollars covers sampling in the river, processing, analyzing the data, recording it, and delivering the findings to the parties. We are moving forward with the implementation of the new program and Watermaster is recommending the approval of this Agreement because we will receive tremendous benefits out of this whole program. Mr. Rossi noted that sampling efforts will be consolidated for this project. This data is then forwarded into this program and the money we are spending is to analyze that data and execute a "combined" report, stating this is not a repetition act of what Orange County is currently doing or what the Regional Board is currently doing. Mr. Rossi noted this Agreement has been unanimously approved by the Pools and the Advisory Committee members.

*Motion by Catlin, second by DeJesus, and by unanimous vote
Moved to approve the Agreement for Basin Monitoring Program for Nitrogen/TDS in the Santa Ana River Watershed, as presented*

C. DISCUSS AGREEMENT BETWEEN IEUA AND WATERMASTER FOR BASIN MONITORING ACTIVITIES

Mr. Rossi affirmed he was not seeking any action on this item and that it will be brought it back for recommendation next month. Mr. Rossi remarked since Watermaster started discussing this program with Wildermuth and IEUA, Watermaster felt it necessary to take a good look at all

monitoring programs. Trying to capture the efforts and costs associated in these monitoring efforts between the two agencies would really bring us together on this cost saving venture. Mr. Rossi asked the Committee to turn to page 133 of the packet to examine the tables regarding analytical and labor costs for joint water quality monitoring programs within the Chino Basin. Table 1 describes costs related to the different monitoring programs. Noting that in this proposal, and in working with Rich Atwater, IEUA would share costs of the monitoring. Mr. Rossi pointed out a substantial amount of money will be saved by going this route which will reduce our labor costs. Mr. Rossi stated some of the capital costs will be met with outside funding. This item will be on the Agenda which will include a staff report with the dollars and a recommendation next month. A question regarding the frequency of samples was presented. Mr. Rossi commented that for approximately three years this level of testing would be needed to establish a baseline. It is hoped that in the future we will be able to reduce sampling. Mr. Wildermuth offered several technical reasons for the necessity of this type of sampling stating that there will be no duplication of sampling programs. The question if whether or not this sampling will give us foresight on any spreading of plumes was presented. Mr. Wildermuth stated that this monitoring will aid in this area. Mr. Rossi was asked to give a detailed analysis of the different tables presented and then asked for any comment. Discussion ensued with regard to recharge and reclaimed water proportionate to tables on page 134 of the packet. It was noted that cost should align with benefit. Mr. Rossi stated that the water rights associated with the recharge accrue to the agencies that own the proportionate share of the recycled water and this is a very significant benefit, noting the cost associated with obtaining this ought to be lined up more appropriately.

D. CONSIDER AGREEMENT BETWEEN OCWD, MWDOC, IEUA, AND WATERMASTER FOR THE JOINT USE OF SERVICE CONNECTION OC-59

Mr. Rossi gave the Committee members a brief overview of the history behind this Agreement and why it was needed. Mr. Rossi reviewed the Agreement and noted there were no other changes being made to this Agreement other than adding Watermaster to the Agreement. Mr. Rossi made the Committee members aware that Three Valleys Municipal Water District had recently requested to be added to the Agreement as well. Mr. Rossi stated this request was unanimously approved at the Pools and Advisory Committee meetings. A discussion regarding the tracking of the water took place and Mr. Rossi ensured the Committee members that Watermasters' tracking of water will not be a problem. The question of whether or not the water out of the turn out, which was owned by OCWD, would have to be purchased from Inland Empire Utilities Agency. Mr. Atwater commented this portion of the Agreement had not changed and the \$2.00 an acre foot remains the standing price. A discussion ensued regarding priority of use for the service connection.

*Motion by Bowcock, second by Kruger, and by unanimous vote
 Moved to approve the Agreement between OCWD, MWDOC, IEUA, Watermaster, and Three Valleys Water District (to be added to the Agreement prior to signing), as presented*

III. REPORTS/UPDATES

A. WATERMASTER GENERAL LEGAL COUNSEL REPORT

1. Attorney/Manager Meetings

Counsel Fife commented the Attorney/Manager meetings are progressing well and reminded the Committee members who had been given "homework" assignments, they were due today. Counsel Fife noted the next meeting was scheduled for June 2nd and the subsequently meeting following that would be on June 9th.

2. Patent Issue

Counsel Fife commented on the recently awarded patent for recharge basins and informed the Committee this item was added to the Legal Affairs Committee Agenda at the ACWA conference in Monterey. Counsel Fife confirmed that several other water agencies had heard from the gentleman who obtained the patent and noted one of them had actually paid him for his services.

3. Wilson v. Watermaster
Counsel Fife informed the Committee members this case has been settled and noted there was an additional handout on the back table.
4. Hearing Date For Approval Of DYY Storage Agreement
Counsel Fife confirmed the filing of the Dry Year Yield Storage Agreement pleading with the court on May 12, 2004 and stated the hearing is set for June 24, 2004. Noting Inland Empire Utilities Agency and Three Valleys Municipal Water District have now approved the Agreement and once the court approves it Watermaster will also sign it. Additionally, Counsel Fife anticipates all to go well in regards to the court approving this agreement.

Added:

5. Chino Land and Water Case
Counsel Fife informed the Committee that the Chino Land & Water case which was submitted to the Supreme Court was denied to be heard by the Supreme Court.

B. CEO/STAFF REPORT

1. Discuss Draft Recharge Operating Plan
Mr. Rossi presented the draft operating plan for recharge and asked the Committee to turn to page 151 of the packet for review. Mr. Rossi noted this has been a challenging year due to the 23,600 acre feet of requirement to recharge water, 6,500 acre feet of that for the MZ1 Peace Agreement requirement, the other 16,600 is the replenishment obligation for over pumping from the prior year. One of the challenges was a direct result from the fires and then the Christmas day storm bringing a lot of silt and ash down into the basins, taking Montclair off line which is where the majority of recharge occurs. Mr. Rossi reviewed the table discussing the conjunctive use plan for the new Dry Year Yield (DYY) Metropolitan Water District (MET) program and the replenishment deliveries in detail. Mr. Rossi agrees Watermaster should obtain as much wet water as we can because of the benefits to the basin. Discussion ensued regarding the cyclic account as well as safe yield issues. The question of whether or not we are going to start taking losses on storage and cyclic accounts in the near distant future was presented. Mr. Rossi stated the Peace Agreement calls for September 2005 as the date for which losses should start taking place, although, Watermaster must analyze and make a recommendation first. This particular item is being discussed through the Attorney/Manager meetings. A discussion and several comments were received regarding losses.
2. Discuss the Draft Chino I and Chino II Desalter Projects Groundwater Monitoring and Mitigation Plan
Mr. Rossi commented this was the Chino Basin Desalter Authority's Draft plan and that Tom O'Neil of Jurupa Community Service Department was contacted to put together a presentation at the Pool meetings in June to fully explain all aspects of this plan. Mr. Rossi stated that the Agricultural Pool Committee Members were very interested in this plan at the last Pool meeting and had requested a full presentation be made with this regard. Mr. Rossi noted this item will be on the Agenda for next month.

- Added:
3. Discuss the Rialto Emergency Pipeline Shutdown
Mr. Rossi reviewed the information given at the Advisory Committee meeting regarding the Rialto Pipeline Emergency Shutdown and noted there was a handout on the back table also regarding this issue. Mr. Rossi stated, Three Valleys Municipal Water District and Inland Empire residents are being asked to have all non-essential water use suspended during the pipeline shutdown for emergency repairs on the major water line to begin June 7, 2004.

IV. POOL MEMBER COMMENTS

Chair Neufeld thanked Mr. Rossi for a job well done and said that even though we are going to give Mr. Rossi a formal presentation and have a recognition luncheon shortly, he wanted to invite any of the Board members to say something to John. A round table of thanks was noted.

V. OTHER BUSINESS

No comment was made regarding this item.

A break for the recognition lunch was taken at 11:55 a.m.

The Watermaster Board along with the Chairs of the Appropriative, Non-Agricultural, and Agricultural Pool reconvened for the purpose of holding the Confidential Session which was called to order by Chair Neufeld at 12:42 p.m.

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

Pursuant to Article 2.6 of the Watermaster Rules & Regulations, a Confidential Session may be held during the Watermaster Board meeting for the purpose of discussion and possible action regarding Personnel Matters and/or Potential Litigation.

The Watermaster Board meeting was reconvened at 2:00 p.m.

The following seven items are the outcome from the confidential session.

- 1) Appoint Sheri Rojo as Chief of Watermaster for the interim
 - a. Negotiate with the Personnel Committee on terms & compensation
- 2) Robert Neufeld, Bob Kuhn, and Terry Catlin to assist the Chief of Watermaster
- 3) Legal Counsel to coordinate filling the CEO position
- 4) Complete search for CEO with a maximum of 3 interviews
- 5) Complete in 90 days
- 6) Consult with Advisory Committee on succession plan and fiscal impact
- 7) Visit the check signing requirements to reduce by one level

Motion by Bowcock, second by Kruger, and by unanimous vote

Moved to approve the recommendations by way of the Confidential Session, as presented

VII. FUTURE MEETINGS

May 24, 2004	11:00 a.m.	Attorney/Manager Meeting @ BB&K
May 27, 2004	9:00 a.m.	Advisory Committee Meeting
	11:00 a.m.	Watermaster Board Meeting
June 2, 2004	12:00 p.m.	Attorney/Manager Meeting @ BB&K
June 9, 2004	9:00 a.m.	Attorney/Manager Meeting @ BB&K
June 10, 2004	3:00 p.m.	Appropriative & Non-Agricultural Pool Meeting
June 17, 2004	9:00 a.m.	Agricultural Pool Meeting @ IEUA
June 24, 2004	9:00 a.m.	Advisory Committee Meeting
	11:00 a.m.	Watermaster Board Meeting

The Watermaster Board Meeting Adjourned at 2:45 p.m.

Secretary: _____

Minutes Approved: _____

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CHINO BASIN WATERMASTER

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

I. CONSENT CALENDAR

B. FINANCIAL REPORTS

1. Cash Disbursements May 2004
2. Combining Schedule of Revenue, Expenses and changes in Working Capital for the Periods July 1, 2003 through April 30, 2004
3. Treasurer's Report of Financial Affairs for April 1 through April 30, 2004
4. Profit & Loss Budget vs. Actual July 2003 through April 2004



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

JOHN V. ROSSI
Chief Executive Officer

STAFF REPORT

DATE: June 10, 2004
June 17, 2004
June 24, 2004

TO: Committee Members
Watermaster Board Members

SUBJECT: Cash Disbursement Report – May 2004

SUMMARY

Issue – Record of cash disbursements for the month of May 2004.

Recommendation – Staff recommends the Cash Disbursements for May 2004 be received and filed as presented.

Fiscal Impact – All funds disbursed were included in the FY 2003-04 Watermaster Budget.

BACKGROUND

A monthly cash disbursement report is provided to keep all members apprised of Watermaster expenditures.

DISCUSSION

Total cash disbursements during the month of May 2004 were \$1,429,025.13. The most significant expenditures during the month were Inland Empire Utilities Agency in the amount of \$964,305.25, Inland Empire Utilities Agency in the amount of \$195,113.35, and Wildermuth Environmental Inc. in the amount of \$94,764.69.

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CHINO BASIN WATERMASTER
Cash Disbursement Detail Report
May 2004

Type	Date	Num	Name	Amount
May 04				
Bill Pmt -Check	5/4/2004	8631	MEDIA JIM	-500.00
Bill Pmt -Check	5/5/2004	8632	INLAND EMPIRE UTILITIES AGENCY	-6,666.67
Bill Pmt -Check	5/5/2004	8633	VERIZON	-418.33
Bill Pmt -Check	5/5/2004	8634	A & R TIRE	-320.46
Bill Pmt -Check	5/5/2004	8635	BOWCOCK, ROBERT	-375.00
Bill Pmt -Check	5/5/2004	8636	CATLIN, TERRY	-250.00
Bill Pmt -Check	5/5/2004	8637	DALIA'S PIZZA MARKET	-295.18
Bill Pmt -Check	5/5/2004	8638	INLAND EMPIRE UTILITIES AGENCY	-964,305.25
Bill Pmt -Check	5/5/2004	8639	KRUGER, W. C. "BILL"	-125.00
Bill Pmt -Check	5/5/2004	8640	KUHN, BOB	-250.00
Bill Pmt -Check	5/5/2004	8641	LOS ANGELES TIMES	-42.00
Bill Pmt -Check	5/5/2004	8642	MWH LABORATORIES	-5,265.00
Bill Pmt -Check	5/5/2004	8643	NEUFELD, ROBERT	-250.00
Bill Pmt -Check	5/5/2004	8644	PAYCHEX	-156.50
Bill Pmt -Check	5/5/2004	8645	PETTY CASH	-435.56
Bill Pmt -Check	5/5/2004	8646	PUMP CHECK	-1,928.06
Bill Pmt -Check	5/5/2004	8647	PURCHASE POWER	-13.97
Bill Pmt -Check	5/5/2004	8648	RETAIL SERVICES	-420.80
Bill Pmt -Check	5/5/2004	8649	UNITED PARCEL SERVICE	-289.84
Bill Pmt -Check	5/5/2004	8650	VANDEN HEUVEL, GEOFFREY	-125.00
Bill Pmt -Check	5/5/2004	8651	VELASQUEZ JANITORIAL	-900.00
Bill Pmt -Check	5/5/2004	8652	VERIZON	-37.45
Bill Pmt -Check	5/5/2004	8653	YUKON DISPOSAL SERVICE	-123.90
General Journal	5/10/2004	04/05/4	PAYROLL	-4,533.23
General Journal	5/10/2004	04/05/4	PAYROLL	-17,616.62
Bill Pmt -Check	5/19/2004	8654	STAULA, MARY L	-209.19
Bill Pmt -Check	5/19/2004	8655	A & R TIRE	-74.95
Bill Pmt -Check	5/19/2004	8656	ACWA SERVICES CORPORATION	-106.88
Bill Pmt -Check	5/19/2004	8657	APPLIED COMPUTER TECHNOLOGIES	-2,275.15
Bill Pmt -Check	5/19/2004	8658	BANK OF AMERICA	-566.13
Bill Pmt -Check	5/19/2004	8659	BEST BEST & KRIEGER LLP	-625.61
Bill Pmt -Check	5/19/2004	8660	CALPERS	-2,998.26
Bill Pmt -Check	5/19/2004	8661	CITIZENS CONFERENCING	-89.96
Bill Pmt -Check	5/19/2004	8662	ELLISON, SCHNEIDER & HARRIS, LLP	-12,368.14
Bill Pmt -Check	5/19/2004	8663	FIRST AMERICAN REAL ESTATE SOLUTIONS	-125.00
Bill Pmt -Check	5/19/2004	8664	HATCH AND PARENT	-58,031.47
Bill Pmt -Check	5/19/2004	8665	INLAND COUNTIES INSURANCE SERVICES, INC.	-342.22
Bill Pmt -Check	5/19/2004	8666	INLAND EMPIRE UTILITIES AGENCY	-195,113.35
Bill Pmt -Check	5/19/2004	8667	MCI	-900.15
Bill Pmt -Check	5/19/2004	8668	MWH LABORATORIES	-6,045.00
Bill Pmt -Check	5/19/2004	8669	OFFICE DEPOT	-764.97
Bill Pmt -Check	5/19/2004	8670	REID & HELLYER	-6,340.35
Bill Pmt -Check	5/19/2004	8671	RICOH BUSINESS SYSTEMS-Lease	-3,591.31
Bill Pmt -Check	5/19/2004	8672	ROJO, SHERI M	-237.62
Bill Pmt -Check	5/19/2004	8673	SAVIN CORPORATION dba RICOH BUSINESS	-32.95
Bill Pmt -Check	5/19/2004	8674	SOLOLIST CANADA LTD.	-50.00
Bill Pmt -Check	5/19/2004	8675	STATE COMPENSATION INSURANCE FUND	-2,302.84
Bill Pmt -Check	5/19/2004	8676	WILDERMUTH ENVIRONMENTAL INC	-94,764.69
Bill Pmt -Check	5/26/2004	8677	ARROWHEAD MOUNTAIN SPRING WATER	-46.07
Bill Pmt -Check	5/26/2004	8678	CUCAMONGA VALLEY WATER DISTRICT	-4,900.00
Bill Pmt -Check	5/26/2004	8679	DIRECTV	-711.98
Bill Pmt -Check	5/26/2004	8680	MWH MONTGOMERY WATSON HARZA	-911.50
Bill Pmt -Check	5/26/2004	8681	NEXTEL COMMUNICATIONS	-878.39
Bill Pmt -Check	5/26/2004	8682	OFFICE DEPOT	-66.38
Bill Pmt -Check	5/26/2004	8683	POWERS ELECTRIC PRODUCTS CO.	-434.36
Bill Pmt -Check	5/26/2004	8684	SAFFRON CATERING AND EVENT SERVICES	-971.10
Bill Pmt -Check	5/26/2004	8685	SAVIN CORPORATION dba RICOH BUSINESS	-32.95
Bill Pmt -Check	5/26/2004	8686	STATE COMPENSATION INSURANCE FUND	-71.27
Bill Pmt -Check	5/26/2004	8687	UNION 76	-159.74
Bill Pmt -Check	5/26/2004	8688	WEST VALLEY ELECTRIC	-50.00
Bill Pmt -Check	5/26/2004	8689	WESTERN ALLIED SERVICE COMPANY	-2,277.00
Bill Pmt -Check	5/26/2004	8690	WILDERMUTH ENVIRONMENTAL INC	-3,121.56
General Journal	5/28/2004	04/05/6	PAYROLL	-4,361.75
General Journal	5/28/2004	04/05/6	PAYROLL	-17,071.07
				<u>-1,429,025.13</u>

May 04

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CHINO BASIN WATERMASTER
 COMBINING SCHEDULE OF REVENUE, EXPENSES AND CHANGES IN WORKING CAPITAL
 FOR THE
 PERIOD JULY 1, 2003 THROUGH APRIL 30, 2004

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION AND SPECIAL PROJECTS APPROPRIATIVE POOL	AGRICULTURAL POOL	NON-AGRIC. POOL	GROUNDWATER OPERATIONS GROUNDWATER REPLENISHMENT	SB222 FUNDS	EDUCATION FUNDS	GRAND TOTALS	BUDGET 2003-04
Administrative Revenues										
Administrative Assessments			4,614,056		122,460				4,736,516	\$3,940,516
Interest Revenue			48,169	5,448	2,305			30	55,952	112,025
Mutual Agency Project Revenue		169,209							169,209	0
Grant Income									-	0
Miscellaneous Income	188,113								188,113	0
Total Revenues	188,113	169,209	4,662,225	5,448	124,765	-	-	30	5,149,790	4,052,541
Administrative & Project Expenditures										
Watermaster Administration	651,517								651,517	617,732
Watermaster Board-Advisory Committee	37,398								37,398	43,442
Pool Administration			11,718	208,545	2,909				223,172	255,148
Optimum Basin Mgmt Administration		753,911							753,911	1,034,064
OBMP Project Costs		1,872,077							1,872,077	3,365,079
Education Funds Use								375	375	375
Mutual Agency Project Costs	41,416								41,416	85,004
Total Administrative/OBMP Expenses	730,331	2,625,988	11,718	208,545	2,909	-	-	375	3,579,866	5,400,844
Net Administrative/OBMP Income	(542,218)	(2,456,779)							-	0
Allocate Net Admin Income To Pools	542,218		402,242	123,919	16,056				-	0
Allocate Net OBMP Income To Pools		2,456,779	1,822,553	561,477	72,749				-	0
Agricultural Expense Transfer			887,291	(887,291)					-	0
Total Expenses	3,123,805	6,650	3,123,805	6,650	91,714	-	-	375	3,579,866	5,400,844
Net Administrative Income	1,538,420	(1,202)	33,051	(1,202)	33,051	-	-	(345)	1,569,924	(1,348,303)
Other Income/(Expense)										
Replenishment Water Purchases						4,135,998			4,135,998	0
MZ1 Supplemental Water Assessments						1,585,854			1,585,854	2,189,500
Water Purchases									-	0
MZ1 Imported Water Purchase									-	(2,273,500)
Groundwater Replenishment						(653,537)			(653,537)	0
Net Other Income	-	-	-	-	-	5,068,315	-	-	5,068,315	(84,000)
Net Transfers To/(From) Reserves	-	-	1,538,420	(1,202)	33,051	5,068,315	-	(345)	6,638,239	(1,432,303)
Working Capital, July 1, 2003	2,813,947	466,069	188,310	266,503	158,251	2,532	3,895,611			
Working Capital, End Of Period	4,352,367	464,867	221,361	5,334,818	158,251	2,187	10,533,850			
02/03 Production			121,586,420	37,457,315	4,853,247				163,896,982	
02/03 Production Percentages			74.185%	22.854%	2.961%				100.000%	

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**CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
APRIL 1 THROUGH APRIL 30, 2004**

DEPOSITORIES:

Cash on Hand - Petty Cash			\$	500
Bank of America				
Governmental Checking-Demand Deposits	\$	112,264		
Savings Deposits		9,623		
Zero Balance Account - Payroll		-		121,887
Local Agency Investment Fund - Sacramento				10,725,549
TOTAL CASH IN BANKS AND ON HAND				\$ 10,847,936
TOTAL CASH IN BANKS AND ON HAND	4/30/2004			11,079,389
	3/31/2004			
PERIOD INCREASE (DECREASE)				\$ (231,453)

CHANGE IN CASH POSITION DUE TO:

Decrease/(Increase) in Assets: Accounts Receivable			\$	31,994
Assessments Receivable				(60,668)
Prepaid Expenses, Deposits & Other Current Assets				1,734
(Decrease)/Increase in Liabilities: Accounts Payable				155,999
Accrued Payroll, Payroll Taxes & Other Current Liabilities				(18,628)
Transfer to/(from) Reserves				(341,884)
PERIOD INCREASE (DECREASE)				\$ (231,453)

SUMMARY OF FINANCIAL TRANSACTIONS:

	Petty Cash	Gov't'l Checking Demand	Zero Balance Account Payroll	Savings	Local Agency Investment Funds	Totals
Balances as of 3/31/2004	\$ 500	\$ 125,412	\$ -	\$ 9,623	\$ 10,943,854	\$ 11,079,389
Deposits		188,113	-	-	31,695	219,808
Transfers		191,021	58,979	-	(250,000)	-
Withdrawals/Checks		(392,282)	(58,979)	-	-	(451,261)
Balances as of 4/30/2004	\$ 500	\$ 112,264	\$ -	\$ 9,623	\$ 10,725,549	\$ 10,847,936
PERIOD INCREASE OR (DECREASE)	\$ -	\$ (13,148)	\$ -	\$ -	\$ (218,305)	\$ (231,453)

CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
APRIL 1 THROUGH APRIL 30, 2004

INVESTMENT TRANSACTIONS

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
4/15/2004	Deposit	L.A.I.F.	31,695				
4/22/2004	Withdrawal	L.A.I.F.	\$ (250,000)				
TOTAL INVESTMENT TRANSACTIONS			\$ (218,305)	-			

* The earnings rate for L.A.I.F. is a daily variable rate; 1.47% was the effective yield rate at the Quarter ended March 31, 2004.

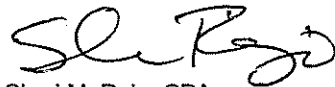
INVESTMENT STATUS
April 30, 2004

<u>Financial Institution</u>	<u>Principal Amount</u>	<u>Number of Days</u>	<u>Interest Rate</u>	<u>Maturity Date</u>
Local Agency Investment Fund	\$ 10,725,549			
Time Certificates of Deposit	-			
TOTAL INVESTMENTS	\$ 10,725,549			

Funds on hand are sufficient to meet all foreseen and planned Administrative and project expenditures during the next six months.

All investment transactions have been executed in accordance with the criteria stated in Chino Basin Watermaster's Investment Policy.

Respectfully submitted,



Sheri M. Rojo, CPA
Finance Manager
Chino Basin Watermaster

CHINO BASIN WATERMASTER
Profit & Loss Budget vs. Actual
July 2003 through April 2004

	<u>Jul '03 - Apr 04</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>
Ordinary Income/Expense				
Income				
4010 · Local Agency Subsidies	169,208.96	0.00	169,208.96	100.0%
4110 · Admin Asmnts-Approp Pool	4,614,055.82	3,931,695.00	682,360.82	117.36%
4120 · Admin Asmnts-Non-Agri Pool	122,460.43	88,201.00	34,259.43	138.84%
4700 · Non Operating Revenues	55,951.87	112,025.00	-56,073.13	49.95%
4900 · Miscellaneous Income	188,113.38	0.00	188,113.38	100.0%
Total Income	5,149,790.46	4,131,921.00	1,017,869.46	124.63%
Gross Profit	5,149,790.46	4,131,921.00	1,017,869.46	124.63%
Expense				
6010 · Salary Costs	359,727.67	385,900.00	-26,172.33	93.22%
6020 · Office Building Expense	158,484.75	108,995.00	49,489.75	145.41%
6030 · Office Supplies & Equip.	47,143.61	41,000.00	6,143.61	114.98%
6040 · Postage & Printing Costs	53,732.00	66,400.00	-12,668.00	80.92%
6050 · Information Services	92,929.87	105,750.00	-12,820.13	87.88%
6060 · Contract Services	90,763.74	121,000.00	-30,236.26	75.01%
6080 · Insurance	17,516.00	16,710.00	806.00	104.82%
6110 · Dues and Subscriptions	8,570.10	14,500.00	-5,929.90	59.1%
6140 · Other WM Admin Expenses	1,861.66	0.00	1,861.66	100.0%
6150 · Field Supplies	600.83	4,250.00	-3,649.17	14.14%
6170 · Travel & Transportation	38,766.05	46,300.00	-7,533.95	83.73%
6190 · Conferences & Seminars	15,954.97	16,000.00	-45.03	99.72%
6200 · Advisory Comm - WM Board	12,706.36	15,071.00	-2,364.64	84.31%
6300 · Watermaster Board Expenses	24,692.13	28,371.00	-3,678.87	87.03%
8300 · Appr PI-WM & Pool Admin	11,718.00	14,471.00	-2,753.00	80.98%
8400 · Agri Pool-WM & Pool Admin	161,744.11	166,979.00	-5,234.89	96.87%
8467 · Agri-Pool Legal Services	40,150.76	51,000.00	-10,849.24	78.73%
8470 · Ag Meeting Attend -Special	6,650.00	16,000.00	-9,350.00	41.56%
8500 · Non-Ag PI-WM & Pool Admin	2,908.65	6,698.00	-3,789.35	43.43%
6500 · Education Funds Use Expens	375.00	375.00	0.00	100.0%
9500 · Allocated G&A Expenditures	-234,534.36	-309,073.00	74,538.64	75.88%
Subtotal G&A Expenditures	912,461.90	916,697.00	-4,235.10	99.54%
6900 · Optimum Basin Mgmt Plan	691,165.93	942,065.00	-250,899.07	73.37%
6950 · Mutual Agency Projects	41,416.37	85,004.00	-43,587.63	48.72%
9501 · G&A Expenses Allocated-OBMP	62,745.28	91,999.00	-29,253.72	68.2%
Subtotal OBMP Expenditures	795,327.58	1,119,068.00	-323,740.42	71.07%
7101 · Production Monitoring	47,137.68	79,283.00	-32,145.32	59.46%
7102 · In-line Meter Installation	45,010.73	131,380.00	-86,369.27	34.26%
7103 · Grdwtr Quality Monitoring	259,191.60	274,613.00	-15,421.40	94.38%
7104 · Gdwtr Level Monitoring	88,637.04	157,852.00	-69,214.96	56.15%
7105 · Sur Wtr Qual Monitoring	61,053.82	133,595.00	-72,541.18	45.7%
7106 · Wtr Level Sensors Install	0.00	26,835.00	-26,835.00	0.0%
7107 · Ground Level Monitoring	88,373.40	202,283.00	-113,909.60	43.69%
7108 · Hydraulic Control Monitoring	256,851.97	718,227.00	-461,375.03	35.76%
7200 · PE2- Comp Recharge Pgm	135,590.37	531,434.00	-395,843.63	25.51%
7300 · PE3&5-Water Supply/Desalte	1,681.69	47,499.00	-45,817.31	3.54%

CHINO BASIN WATERMASTER
Profit & Loss Budget vs. Actual
July 2003 through April 2004

	<u>Jul '03 - Apr 04</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>
7400 · PE4- Mgmt Plan	190,531.04	187,308.00	3,223.04	101.72%
7500 · PE6&7-CoopEfforts/SaltMgmt	53,485.00	51,820.00	1,665.00	103.21%
7600 · PE8&9-StorageMgmt/Conj Use	96,511.75	146,179.00	-49,667.25	66.02%
7690 · Recharge Improvement Debt Pymt	376,169.00	429,250.00	-53,081.00	87.63%
7700 · Inactive Well Protection Prgm	62.45	30,447.00	-30,384.55	0.21%
9502 · G&A Expenses Allocated-Projects	171,789.05	217,074.00	-45,284.95	79.14%
Subtotal Special Project Expenditures	<u>1,872,076.59</u>	<u>3,365,079.00</u>	<u>-1,493,002.41</u>	<u>55.63%</u>
Total Expense	<u>3,579,866.07</u>	<u>5,400,844.00</u>	<u>-1,820,977.93</u>	<u>66.28%</u>
Net Ordinary Income	1,569,924.39	-1,268,923.00	2,838,847.39	-123.72%
Other Income/Expense				
Other Income				
4231 · MZ1 Assigned Water Sales	0.00	615,000.00	-615,000.00	0.0%
4210 · Approp Pool-Replenishment	4,124,710.02	0.00	4,124,710.02	100.0%
4220 · Non-Ag Pool-Replenishment	11,288.32	0.00	11,288.32	100.0%
4230 · MZ1 Sup Wtr Assessment	1,585,853.60	1,574,500.00	11,353.60	100.72%
Total Other Income	<u>5,721,851.94</u>	<u>2,189,500.00</u>	<u>3,532,351.94</u>	<u>261.33%</u>
Other Expense				
5010 · Groundwater Replenishment	653,536.60	2,273,500.00	-1,619,963.40	28.75%
9999 · To/(From) Reserves	6,638,239.73	-1,352,923.00	7,991,162.73	-490.66%
Total Other Expense	<u>7,291,776.33</u>	<u>920,577.00</u>	<u>6,371,199.33</u>	<u>792.09%</u>
Net Other Income	<u>-1,569,924.39</u>	<u>1,268,923.00</u>	<u>-2,838,847.39</u>	<u>-123.72%</u>
Net Income	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.0%</u>



CHINO BASIN WATERMASTER

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

II. BUSINESS ITEMS

- A. CONSIDER AGREEMENT
BETWEEN IEUA AND
WATERMASTER FOR BASIN
MONITORING ACTIVITIES**



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

JOHN V. ROSSI
Chief Executive Officer

STAFF REPORT

DATE: June 10, 2004
June 17, 2004
June 24, 2004

TO: Committee Members
Watermaster Board Members

SUBJECT: Agreement for Cooperative Efforts, Common Monitoring

SUMMARY

Issue – Watermaster and IEUA have commitments to perform ground and surface water monitoring programs to support various programs that each is implementing and some programs that are being jointly implemented. The proposed Agreement between the Chino Basin Watermaster and IEUA is intended to reduce the aggregate monitoring requirements and cost by sharing of monitoring efforts and data and by equitably sharing the cost of these programs.

Recommendation – Staff recommends: 1. Approve the cooperative agreement with Inland Empire Utilities Agency for Cooperative Efforts, Common Monitoring Programs; and 2. Authorize the Chairman of the Board to execute the agreement.

Fiscal Impact – The 2004/2005 Budget Incorporates the Cooperative Efforts, Common Monitoring Required By the Agreement

BACKGROUND

Implementation of the project elements of the OBMP requires that hydraulic control be maintained in the southerly portion of the Chino Groundwater Basin. Hydraulic control is achieved if groundwater levels are kept at a low level, by desalter and agricultural pumping, to minimize groundwater flow into the Prado Basin. Maintaining hydraulic control enables the use of the Chino Basin for conjunctive use and allows IEUA to recharge recycled water.

Watermaster and IEUA jointly proposed to the Regional Water Quality Control Board to substantially increase the TDS and nitrogen objectives in the northern part of the Chino Basin to encourage the maximum beneficial use of imported and recycled water. This request was granted and was included in the Basin Plan update which is currently slated for adoption by the State Water Resources Control Board later this year. One of the

conditions included in this proposal was that Watermaster and IEUA would implement the OBMP and achieve hydraulic control.

IEUA entered into an agreement with Orange County Water District in October 2002, for mitigation measures associated with IEUA's planned recycled water program, which includes recycled water recharge. A significant mitigation measure is monitoring to assure hydraulic control is maintained.

DISCUSSION

Staff has developed a hydraulic control monitoring program consisting of nine hydraulic control monitoring wells. The cost of the installation of the nine wells is estimated at \$1,200,000. IEUA has obtained funding from the Bureau of Reclamation (\$400,000) and the Department of Water Resources (\$250,000). The balance of the cost will be funded equally by IEUA and CBWM.

The attached agreement also include cooperative monitoring efforts to estimate the water quality of recharge in the basin and to comply with expected monitoring requirements for the recharge of recycled water.

It is anticipated that Watermaster staff will complete most of the fieldwork and that IEUA will do most of the analytical work at their laboratory.

The attached agreement describes the cooperative monitoring program including the hydraulic control monitoring program and the construction of the wells. The agreement includes an Annual Monitoring Program (AMP) that will be annually developed by the staffs of Watermaster and IEUA and approved by the Watermaster and IEUA Board prior to implementation. The first AMP associated with the cooperative agreement is attached to the agreement and covers the 15-month period from April 1, 2004 through June 30, 2005. Subsequent AMPs will run from July 1 through June 30.

The cost to construct the monitoring wells will be about \$1.5 million. IEUA has obtained funding from the Bureau of Reclamation (\$400,000) and the Department of Water Resources (\$250,000). The balance of the cost will be funded equally by IEUA and CBWM – about \$425,000 each.

The cost of monitoring for the first AMP is shown on Table 1 of the AMP and is summarized below:

Monitoring Program Element	Watermaster Share	IEUA Share
Groundwater Quality Monitoring	\$42,000	\$42,000
Hydraulic Control Monitoring	\$100,000	\$100,000
Recharge Basin Water Quality Monitoring	\$144,000	\$247,000
Total	\$286,000	\$389,000

AKB04001
AGREEMENT FOR COOPERATIVE EFFORTS
COMMON MONITORING PROGRAMS

BETWEEN
CHINO BASIN WATERMASTER
AND THE
INLAND EMPIRE UTILITIES AGENCY

This agreement (Agreement), dated _____, 2004, is executed by the Chino Basin Watermaster (Watermaster) and the Inland Empire Utilities Agency (IEUA) (collectively, the Parties), to set forth the Parties' obligations and commitments for implementation of monitoring programs that are necessary and beneficial to both Parties, including:

- a. The Hydraulic Control Monitoring Program (HCMP);
- b. Storm water monitoring in spreading basins;
- c. Basin Plan requirements related to the Maximum-Benefit water quality objectives; and,
- d. Title 22 monitoring requirements for recycled water recharge.

RECITALS

A. The Chino Basin Watermaster, pursuant to a February 19, 1999 court order, completed scientific and engineering investigations to develop an Optimum Basin Management Program (OBMP) for the Chino groundwater basin in August 1999. The OBMP describes basin management goals and a series of initiatives referred to in the OBMP as Program Elements that, if implemented, would enable Watermaster to achieve the OBMP goals. One of the goals of the OBMP is to enhance basin water supplies. One of the ways to enhance basin water supplies that was identified in the OBMP is to reduce groundwater outflow to the Santa Ana River. Increasing Chino Basin groundwater production near the Santa Ana River will increase the streambed percolation of the Santa Ana River into the groundwater basin, and reduce groundwater outflow from the Basin and thereby increase the supply of groundwater in the Basin. Reducing groundwater outflow from the Chino Basin to the Santa Ana River has the added benefit of protecting the Santa Ana River water quality. The OBMP included the construction of groundwater treatment facilities in the lower Chino Basin that enable the production and treatment of poor quality groundwater for subsequent use by municipal water users. One of the purposes of these groundwater treatment facilities is to maximize the yield of the Chino Basin by reducing groundwater outflow to the Santa Ana River. The total groundwater production for these groundwater treatment facilities could exceed 50,000 acre-feet per year (acre-ft/yr).

B. IEUA completed its Recycled Water Master Plan (RWMP) in August 2002. One



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of the elements of the RWMP is recycled water recharge. Recycled water recharge can be used to satisfy replenishment obligations of pumpers in the Chino Basin and as a source of supplemental water for groundwater storage programs. IEUA is interested in ensuring that any recycled water recharged into the Chino Basin does not eventually discharge into the Santa Ana River or contribute to other Chino Basin groundwater discharging to the Santa Ana River. IEUA made a commitment in the environmental documents for the RWMP, to ensure that recycled water recharged in the Chino Basin would not discharge into the Santa Ana River.

C. In December 2002, Watermaster and IEUA jointly proposed to the Santa Ana Regional Water Quality Control Board (RWQCB) to increase the total dissolved solids (TDS) and nitrogen objectives to values that would promote the maximum beneficial use of waters available to water users in the Basin. Watermaster and IEUA made facility and operating commitments to back up their Maximum Benefit Proposal. One of these commitments was to establish and maintain a state of hydraulic isolation or control in the lower Chino Basin such that groundwater in the northern portions of the basin would not be allowed to discharge to the Santa Ana River. The RWQCB has accepted the Watermaster and IEUA proposal, subject to the establishment and maintenance of such hydraulic control. The RWQCB will revise the Santa Ana River Watershed Water Quality Control Plan (Basin Plan) in 2004. The updated Basin Plan will include the Watermaster and IEUA proposed TDS and nitrogen water quality objectives. Associated with these new water quality objectives, the RWQCB has included specific monitoring and reporting requirements for Watermaster and IEUA.

D. Technical staff from the Watermaster, IEUA, RWQCB, and the Orange County Water District (OCWD) have been meeting periodically since June 2002 to develop a monitoring program to determine if hydraulic control is occurring. This monitoring program is described in a draft work plan, entitled *Optimum Basin Management Program Hydraulic Control Monitoring Program, Draft Work Plan* (November 2003). Watermaster, IEUA, and OCWD staff have developed an exhibit that shows the approximate locations of nine new monitoring wells that, along with several other existing wells, are the minimum set of wells that will be required to determine the state of hydraulic control. This map is attached herein as Exhibit A.

E. Watermaster and IEUA have committed to working cooperatively to implement the HCMP. These cooperative efforts include development of the HCMP, construction of new monitoring wells, groundwater monitoring, surface water monitoring, monitoring required for recycled water recharge, analysis of monitoring data, and preparation of reports.

TERMS OF AGREEMENT

Definitions



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1. As used in this Agreement, these terms – including any grammatical variations thereof – shall have the following meanings:
 - a. Annual Monitoring Plan – shall mean the jointly developed annual plan of monitoring, pursuant to the HCMP and to other monitoring activities that Watermaster and IEUA wish to jointly pursue.
 - b. Cooperating Entities – cooperating entities shall mean those entities other than Watermaster and IEUA that will provide monitoring data to Watermaster that will be incorporated into the HCMP.
 - c. Effective Date – the Effective Date shall mean the effective date of this Agreement, which shall be _____, 2004.
 - d. Exhibit A – shall mean the attached Exhibit A that shows the Investigation Area, the wells, and surface water monitoring stations used in the HCMP.
 - e. Exhibit B – shall mean the attached Exhibit B that shows the Chino Basin management zones as delineated in the Watermaster and IEUA Maximum Benefit Proposal; and which is being incorporated in the 2004 Basin Plan update.
 - f. Investigation Area – the Investigation area includes the area in which groundwater and surface area monitoring will occur for the HCMP, as shown in Exhibit A.
 - g. Hydraulic Control – shall mean the condition where groundwater in the Chino North management zone is intercepted before discharging to the Santa Ana River such that any discharge that does occur to the Santa Ana River has *de minimus* impact on the discharge and water quality of the Santa Ana River. The Chino North management zone is shown in Exhibit B.
 - h. HCMP Work Plan – shall mean the work plan developed by Watermaster and IEUA and its subsequent revisions starting in November 2003.
 - i. Maximum Benefit Proposal – shall mean the Watermaster and IEUA's joint proposal to the RWQCB to modify the management zone boundaries in the Chino Basin and to increase the TDS and nitrogen objectives, pursuant to Water Code Section 13241, to promote the maximum beneficial use of waters of the State.
 - j. Multi-depth Monitoring Well – shall mean a either a single borehole with two or more piezometers completed in the borehole; or two or more separate piezometers completed in individual boreholes.
 - k. Party or Parties – Party shall mean either Watermaster or IEUA; Parties shall mean Watermaster and IEUA.
 - l. Recycled Water Recharge monitoring shall include monitoring wells and water quality monitoring which include specific recycled water recharge monitoring requirements not included in other basin monitoring programs.
 - m. Surface Water Quality Monitoring Program (SWQMP) Work Plan – shall mean the work plan developed by Watermaster and IEUA in _____ and its subsequent revisions.



HCMP Project Description

2. Nine new multi-depth monitoring wells will be constructed. The approximate locations of these monitoring wells are shown in Exhibit A. These nine wells will be constructed over 18 to 24 months. Groundwater monitoring at these new nine wells and other wells in the Investigation Area will occur as described in the HCMP Work Plan. Surface water monitoring will occur as described in the HCMP Work Plan. Additional monitoring wells for basin groundwater quality or recycled water recharge may be included under this agreement by mutual agreement.

Funding for the Monitoring Wells

3. Funding for the nine new monitoring wells shall be obtained from the following four sources:

- a. Grant from the US Bureau of Reclamation (Bureau) obtained through IEUA
- b. Local Groundwater Assistance Grant (AB303) from the Department of Water Resources (DWR) through Watermaster and IEUA.
- c. Budgeted funds from Watermaster and IEUA.
- d. Budgeted funds from IEUA

4. Exclusive of the outside funding sources listed in 3a and 3b above, Watermaster and IEUA shall equally share in the cost of the construction and maintenance of the nine new monitoring wells. An annual budget shall be established by the IEUA and approved by Watermaster for the costs associated with the nine monitoring wells. Watermaster and IEUA will coordinate and use best efforts to obtain outside funding for additional monitoring wells if they are required for the HCMP. Watermaster and IEUA shall equally share in the cost of additional monitoring wells, unless specifically developed for one of the Party's exclusive use. The Party developing wells for their exclusive use shall bear the sole cost of those wells, including construction, maintenance, and any analysis cost.

Monitoring Well Construction

5. Watermaster will perform well site engineering investigations to identify alternative sites at each of the locations shown on Exhibit A. These investigations will identify property owners, and desired construction and permanent easements. Title searches will be done where appropriate. The results of these investigations will be provided to IEUA for their use in procuring easements and permits from the property owners of each site (see Section 6 below).

6. IEUA will review the site engineering investigations provided by Watermaster and provide comments and guidance. IEUA will acquire construction and permanent easements for each monitoring well.



7. Watermaster will provide IEUA eighty-percent technical specifications for the monitoring wells. IEUA will be responsible for completion of the plans and specifications for these wells. IEUA will provide Watermaster with a copy of these plans and specifications for Watermaster review.
8. Watermaster will provide an on-site State-certified hydrogeologist to: interpret and record drill cuttings, interpret geophysical and other down-hole logs, finalize the location of the screened intervals, monitor the construction of the piezometers and well head, and to confer with IEUA's contract administrator.
9. Phase I wells will be developed by the Bureau, to include bidding and contracting with drillers and other contractors, with oversight by IEUA and Watermaster. IEUA will administer the Phase II, construction. This includes bidding, and contracting with drillers and other contractors, and construction management and maintenance services. IEUA will maintain the wells in accordance with the Annual Monitoring Plan and Budget. Prior to the Bureau entering into a construction contract for the construction of the Phase I wells, IEUA and Watermaster shall deposit with the Bureau an amount equal to the difference of the contract price minus the grant funds (IEUA/WM cost share).
10. Once constructed, IEUA shall hold title and ownership of the wells.

Groundwater and Surface Water Monitoring

11. Watermaster will conduct groundwater and surface water monitoring for the HCMP as described in the HCMP Work Plan. Watermaster will revise the HCMP Work Plan, as necessary, in response to requirements of the RWQCB, changed conditions in the Investigation Area, and other considerations.
12. Watermaster will collect and manage data from other cooperating entities including the City of Corona, OCWD, City of Riverside, County of Riverside, RWQCB, County of San Bernardino, United States Geological Survey, and the Western Riverside Joint Powers Authority.
13. IEUA will conduct surface water monitoring at its recycled water discharge points and nearby receiving water locations as described in IEUA's NPDES Permit and the HCMP Work Plan.
14. IEUA will, at the request of Watermaster, use their State-certified laboratory to analyze water quality samples obtained by Watermaster as part of the HCMP Work Plan. IEUA will provide the analytical results to Watermaster in hardcopy and digital formats. Watermaster and IEUA will each pay one-half the cost of water quality analyses.



Annual Monitoring Plan

15. An operating committee will be formed by the Watermaster and IEUA for the purposes of planning the monitoring efforts for each year, the development of an annual monitoring plan (AMP), and to monitor the progress of the AMP. Watermaster and IEUA will jointly develop and approve the AMP pursuant to the HCMP and for other monitoring activities that Watermaster and IEUA wish to jointly pursue.

16. The term of the first AMP will run from April 1, 2004 through June 30, 2005, and subsequent AMPs will run from July 1 through June 30. Cost sharing for the monitoring activities in the AMP will be per the terms described in this Agreement unless stipulated otherwise in the AMP. The types of activities contemplated in the AMP will include, but not be limited to, monitoring and reporting for:

- a. The HCMP
- b. Storm water monitoring in spreading basins
- c. Basin Plan requirements related to the Maximum-Benefit water quality objectives
- d. Title 22 requirements for recycled water recharge.

Analysis and Reporting

17. Watermaster will analyze monitoring program data and prepare the periodic monitoring reports and other submittals to the RWQCB as required in the Basin Plan update and the HCMP Work Plan. Each report will be prepared as follows:

- a. Watermaster will prepare a draft report for review by IEUA thirty (30) calendar days prior to the RWQCB-specified due date.
- b. IEUA will provide review comments to Watermaster fifteen (15) calendar days prior to the RWQCB specified due date.
- c. Watermaster will respond to IEUA comments and submit the final report to the RWQCB as a joint Watermaster and IEUA report on or before the due date.

Responsibility for the analysis and reporting for other monitoring work done in each AMP will be done pursuant to the AMP.

Annual Reconciliation of Program Costs

18. IEUA will conduct an annual reconciliation of the Project expenditures, grant funds received, and Project costs at the end of each fiscal year. Each Party to this Agreement will submit their project costs quarterly to IEUA for tracking purposes. If the reconciliation reveals that the actual amount of funds expended is in excess of the Project budget established through the AMP, for the fiscal year, then the budget shall be updated for the next fiscal year's budget to accurately reflect the Project budget.



Term of this Agreement

19. This Agreement shall become effective starting on the Effective Date and will expire and thereupon terminate on June 30th of the tenth (10) fiscal year starting on July 1st of the first fiscal year following the Effective Date.

Miscellaneous Provisions

20. By entering into this Agreement, the Parties are expressing the terms and conditions upon which each is willing to proceed to complete the transactions described in this Agreement. To the extent that any action contained herein requires formal approvals or actions, such agreements shall not be binding unless and until such approvals or actions occur in accordance with applicable law, and then only in accordance with such approvals and actions.

21. The Parties hereto each acknowledge that each Party will, in reliance upon the execution of this Agreement, undertake substantial effort and expenditure of funds to achieve consummation of the transactions described herein. Therefore, each Party agrees to perform in good faith regarding this Agreement and without unreasonable delay.

22. Each Party executing this Agreement represents to the other Party that he or she has the authority necessary to execute this Agreement, and that no other consent or approvals are required or necessary for this Agreement to be binding.

23. The Parties agree to execute any other documents and to take such other and further action as may be reasonably necessary to implement the Agreement set forth herein.

24. Any notice may be served upon either Party by delivering it in person, or by depositing it in a United States Mail deposit box with postage thereon fully prepaid, and addressed to the Party at the address set forth below:

IEUA: Mr. Richard W. Atwater
Chief Executive Officer/General Manager
6075 Kimball Avenue
Chino, California 91710

WATERMASTER: Mr. John Rossi, Watermaster
9641 San Bernardino Road
Rancho Cucamonga, California 91730

Any notice given hereunder shall be deemed effective in the case of personal delivery,



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upon receipt thereof, or, in the case of mailing, at the moment of deposit in the course of transmission with the United States Postal Service.

25. Both Parties agree that any such claim, dispute, and matter of controversy arising out of or in relation to this Agreement, shall be considered in good faith by each Party. Each Party shall *meet and confer* with the other Party in a timely matter to resolve any such dispute. Should negotiations between the Parties fail to produce settlement of the subject claim, dispute, or matter of controversy, each Party shall be entitled to exercise all available remedies as prescribed by law in the State of California, San Bernardino County Superior Court, for resolution.

26. The Parties may execute duplicate originals of this Agreement or any other documents that they are required to sign or furnish pursuant to this Agreement.

27. The Parties may deliver signatures via facsimile as if an original signature.

IN WITNESS WHEREOF, the Parties have executed this Agreement to be effective on the day and year first above written.

CHINO BASIN WATERMASTER

Dated: _____ By: _____

Title: _____

INLAND EMPIRE UTILITY AGENCY

Dated: _____ By: _____

Title: _____



Inland Empire
UTILITIES AGENCY

**MEMORANDUM OF AGREEMENT
2004-2005 ANNUAL MONITORING PLAN AND BUDGET**

Introduction

This Annual Monitoring Plan (AMP) and Budget, was developed jointly by Chino Basin Watermaster (Watermaster) and the Inland Empire Utilities Agency (IEUA) pursuant to the *Agreement for Cooperative Efforts, Common Monitoring Programs* dated _____, 2004. This Agreement created an Operating Committee whose purpose is the development, execution, and management of the monitoring programs conducted by Watermaster and IEUA.

Table 1 summarizes the work to be done during the 2004-2005 AMP and the share of cost between Watermaster and IEUA. These efforts and cost are described below.

Hydraulic Control Monitoring Program (HCMP)

Watermaster and IEUA will perform the first year's work for the HCMP per the HCMP Work Plan and as described in the Agreement. Table 2 is a line item cost estimate that summarizes the HCMP monitoring tasks and the related costs for the 2004-2005 AMP.

Groundwater Quality Monitoring Program and Basin Plan Groundwater Monitoring Exclusive of HCMP (GWQMP)

Table 1 summarizes the work to be done for the OBMP and Basin Plan Monitoring exclusive of the HCMP, the cost of this monitoring, and the share of cost between Watermaster and IEUA. Watermaster will conduct groundwater quality monitoring pursuant to the requirements of the Basin Plan amendment approved by the Santa Ana Regional Water Quality Control Board in 2004. Watermaster will perform its customary QA/QC procedures and maintain this information in its relational database. Watermaster will provide this information for use in subsequent Basin Planning efforts.

Recharge Basin Water Quality Monitoring Program (RBWQMP)

Table 1 summarizes the work to be done for the Recharge Basin Water Quality Monitoring Program, the cost of this monitoring, and the share of cost between Watermaster and IEUA. Table 2 contains the detailed cost breakdown and assumptions regarding the frequency of sampling. The scope of this effort is pursuant to the OBMP, Basin Plan exclusive of the HCMP, and the new requirements that will be included in the IEUA permit for the recharge of recycled water. Watermaster will obtain water quality samples from spreading basins in the Chino Basin. IEUA will analyze these samples for general minerals, general physical, ammonia, nitrate, nitrate, TKN, and TOC pursuant to Basin Plan requirements and for other constituents required in IEUA's permit for the



recharge of recycled water.

Title 22 Requirements for Recycled Water Recharge

The level of effort, responsibilities, cost and cost sharing have not yet been determine for all the required monitoring activities for this monitoring period. This AMP will be revised when this information becomes available.

Operating Committee and Tracking Cost

The Operating Committee will meet at least quarterly to review the activities conducted under the AMP. Watermaster and IEUA will keep records of their expenditures and provide copies to each other at the end of each calendar quarter. Watermaster and IEUA will review and approve these records. Watermaster and IEUA will each be responsible for their share of costs identified in Table 1. Based on the total cost incurred by each party and the cost sharing percentages identified in Table 1, Watermaster and IEUA will make financial arrangements to ensure that the cost sharing stated in Table 1 is achieved.

The term of this first AMP will run from April 1, 2004 through June 30, 2005.

Approved:

CHINO BASIN WATERMASTER

Dated: _____ By: _____

Title: _____

INLAND EMPIRE UTILITY AGENCY

Dated: _____ By: _____

Title: _____



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Table 1
Analytical and Labor Costs for Joint Water Quality Monitoring Programs in Chino Basin
Chino Basin Watermaster and Inland Empire Utilities Agency

Monitoring Program	Element	Percent Responsibility		Sampling Rounds	Surface Water Stations	Groundwater Wells	No of Samples/Year ¹	Analytical Unit Costs	Analytical Costs	Labor and Small ODCs	Outside Funding	Cost by Agency	
		CBWM	IEUA									CBWM	IEUA
Groundwater Quality Monitoring Program (GWQMP)													
Analytical Costs													
	Wells with Standard Analytes + Perchlorate	50%	50%	1		37	37	\$265	\$9,805			\$4,903	\$4,903
	Wells with Standard Analytes + perchlorate + VOCs	50%	50%	1		20	20	\$360	\$7,200			\$3,600	\$3,600
Labor Costs													
	4 CBWM staff at 40% Full-time plus mileage	50%	50%							\$66,710		\$33,355	\$33,355
	Sub-Total					57	57	\$625	\$17,005	\$66,710		\$41,857	\$41,857
Hydraulic Control Monitoring Program (HCMP)													
Analytical Costs													
	Surface Water Grab Samples	50%	50%	26	11		286	\$265	\$75,790			\$37,895	\$37,895
	<small>5 USGS stations; 5 ad hoc stations. Sampled every other week.</small>												
	NAWQA Wells	50%	50%	12		10	120	\$265	\$31,800			\$15,900	\$15,900
	<small>8 USGS wells, 2 SARWC wells, sampled monthly</small>												
	New HCMP Monitoring Wells	50%	50%	4		24	96	\$265	\$25,440			\$12,720	\$12,720
	<small>Nine well clusters, six with three wells/cluster, three with two wells/cluster sampled quarterly</small>												
Labor Costs													
	4 CBWM staff at 40% Full-time plus mileage	50%	50%							\$66,710		\$33,355	\$33,355
	Sub-Total				11	34	502	\$795	\$133,030	\$66,710		\$99,870	\$99,870
Recharge Basin Water Quality Monitoring Program (RBWQMP)													
	Recharge Basins (See Table 2 for details of Recharge Basin Monitoring Program)	50%	50%	varies	22		559	\$255	\$142,545	\$43,300		\$92,923	\$92,923
	Groundwater Monitoring (per 4/14/04 Findings of Fact/Conditions, Table 3 herein)	25%	75%				78	\$482	\$37,596	\$32,475		\$17,518	\$52,553
	Lysimeter Monitoring (per 4/14/04 Findings of Fact/Conditions, Table 3 herein)	25%	75%				1351.35	\$57	\$77,027	\$58,905		\$33,983	\$101,949
	Sub-Total				22	0	1988.35	\$794	\$257,168	\$134,680		\$144,423	\$247,425
Totals					33	91	2547.35		\$407,203			\$286,150	\$389,152

1 - Maximum theoretical number for the Recharge Basin Water Quality Monitoring Program

2 - Includes piezometric monitoring

**Table 3
Phase 1 Recycled Water Groundwater Recharge Project
Fiscal Year 2005 (July 1, 2004 to June 30, 2005)**

Task/Subtask/Description	Access	Principal	Supervising	Senior	Associate	Lead	Task Repetition Multiplier	Person Days	Total Labor Cost	New Equipment and Commodities	Other Direct Costs			Total for Task
											Subscriptions	Laboratory	Reproduction	
Task 6 Conduct Lyimeter Monitoring														
6.1 Lyimeter install and analyze each weekly samples from BT No. 1 and 7 new lines (3 lyimeters)	a, 1		0.25				5	12.5	\$11,950				\$11,950	
6.2 Review the results of each round of samples	a		0.5				20	10	\$7,000				\$7,000	
6.3 Review the results of each round of samples	a		0.5				20	10	\$7,000				\$7,000	
6.4 Load data into relational database	b, a		0.5				20	10	\$7,000				\$7,000	
6.5 Transfer data to DODS in test EDD format	b						1							
Task 7 Conduct Tracer Investigation for Trench No. 1														
7.1 Determine subs location and TDC in recharge water and test in vadose zone	a		0.125		0.5		52	26.5	\$27,070				\$27,070	
7.2 Estimate subs location and TDC in recharge water and test in vadose zone	a		0.125		0.5		52	26.5	\$27,070				\$27,070	
7.3 Compare for consistency at 10 percent of Task 6.2														
Task 8 Conduct Tracer Investigation for Trench No. 1														
8.1 Design Tracer Installation	a		3				1	10	\$7,720				\$7,720	
8.2 Determine suitable tracer, well, and plans for test	a		3				1	10	\$7,720				\$7,720	
8.3 Prepare and review investigation plan	a		3				1	10	\$7,720				\$7,720	
8.4 Review EIA	a		0.5				1	1	\$1,100				\$1,100	
8.5 Review contract, research and review	b		0.5				1	1	\$1,100				\$1,100	
Task 9 Review DODS and SARVOCH Contents														
9.1 Review DODS and SARVOCH Contents	a		1				1	1	\$1,560				\$1,560	
9.2 Review DODS and SARVOCH Contents	a		2				2	2	\$3,120				\$3,120	
9.3 Review contract, research and review	a, b		2				2	2	\$3,120				\$3,120	
9.4 Submit Final Tracer Investigation Plan to DODS and SARVOCH	b						1	1	\$1,560				\$1,560	
Task 10 Prepare Tracer Investigation Report														
10.1 Prepare Tracer Investigation Report	a		1				12	12	\$10,200				\$10,200	
10.2 Review with EIA	a		1				2	2	\$1,700				\$1,700	
10.3 Review contract, research and review	b		2				2	2	\$1,700				\$1,700	
10.4 Review DODS and SARVOCH	a, b		2				2	2	\$1,700				\$1,700	
10.5 Review contract, research and review	a, b		2				2	2	\$1,700				\$1,700	
10.6 Final Review by EIA, review	a, b		1				1	1	\$850				\$850	
10.7 Submit Final Tracer Investigation Plan to DODS and SARVOCH	b						1	1	\$850				\$850	

Task/Activity/Description	Notes	Phase 1		Phase 2		Phase 3		Phase 4		Phase 5		Total ODC	Total for Budget	Total for Task
		Practical	Supervisory	Specialist	Assistant	Field Tech / Deficit	Task Repetition Multiplier	Total Labor Person Days	Cost	Major New Equipment and Expendables	Subcontractors			
Task 4 Prepare Compliance Reports for DONS and SARVOCC														
4.1 Prepare Monthly Reports														
4.1a Prepare monthly report and submit to IEUA	a, b	2	3	3	1	3	12	368,668				\$1,000	\$07,800	
4.1b Prepare monthly report and submit to DONS	a, b	0.5	1	1	1	3	30	\$74,400				\$1,000	\$79,400	
4.1c Submit monthly report to DONS and SARVOCC	b													
4.2 Prepare Annual Report (includes 120 month data)														
4.2a Prepare annual report and submit to IEUA	a, b	2	2	2	1	2	26	\$17,700				\$1,000	\$22,700	
4.2b Prepare annual report and submit to DONS	a, b	1	3	3	1	8	8	\$4,900				\$200	\$5,900	
4.2c Submit annual report to DONS and SARVOCC	b													
Notes													\$2,994,843	\$2,994,843
a	Work done by contractors													
b	Work done by IEUA													
c	Work done by construction contractors													
d	Includes cost of materials, related labor and well head at \$1,250 each, two western pumps at 750 each, plus expenditures in fuel (diesel, kerosene, etc)													
e	Subcontractor costs include \$0.00 per hour for and less of Sheet Piling, Boring, Drilling, Excavation and Electrical Instruments													
f	Subcontractor costs include \$0.00 per hour for and less of Sheet Piling, Boring, Drilling, Excavation and Electrical Instruments													
g	Subcontractor costs include \$0.00 per hour for and less of Sheet Piling, Boring, Drilling, Excavation and Electrical Instruments													
h	Includes the probability of trouble (yet to be developed) that may result with SCADA and other data													
i	Includes the cost of purchased transmission towers for 42 of 46 of the wells in the programmatic monitoring program													
j	Includes monitoring 2-9 Hydrants and 20-21 Hydrants 4th Oct 2004, 27-31 Hydrants 4th Oct 2004, 27-31 Hydrants 11th Oct 2004, 27-31 Hydrants 18th Oct 2004, 27-31 Hydrants 25th Oct 2004, 27-31 Hydrants 1st Nov 2004, 27-31 Hydrants 8th Nov 2004, 27-31 Hydrants 15th Nov 2004, 27-31 Hydrants 22nd Nov 2004, 27-31 Hydrants 29th Nov 2004, 27-31 Hydrants 6th Dec 2004, 27-31 Hydrants 13th Dec 2004, 27-31 Hydrants 20th Dec 2004, 27-31 Hydrants 27th Dec 2004, 27-31 Hydrants 3rd Jan 2005, 27-31 Hydrants 10th Jan 2005, 27-31 Hydrants 17th Jan 2005, 27-31 Hydrants 24th Jan 2005, 27-31 Hydrants 31st Jan 2005, 27-31 Hydrants 7th Feb 2005, 27-31 Hydrants 14th Feb 2005, 27-31 Hydrants 21st Feb 2005, 27-31 Hydrants 28th Feb 2005, 27-31 Hydrants 6th Mar 2005, 27-31 Hydrants 13th Mar 2005, 27-31 Hydrants 20th Mar 2005, 27-31 Hydrants 27th Mar 2005, 27-31 Hydrants 3rd Apr 2005, 27-31 Hydrants 10th Apr 2005, 27-31 Hydrants 17th Apr 2005, 27-31 Hydrants 24th Apr 2005, 27-31 Hydrants 1st May 2005, 27-31 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Hydrants 12th May 2014, 27-31 Hydrants 19th May 2014, 27-31 Hydrants 26th May 2014, 27-31 Hydrants 2nd Jun 2014, 27-31 Hydrants 9th Jun 2014, 27-31 Hydrants 16													

Table 2
Sampling Schedule for Recharge Basins in the Chino Basin to Meet DOHS and RWQCB Requirements

Basin	Recharge Waters			Samples Per Month ²												Maximum Number of Samples for the First Monitoring Period	Maximum Cost for the First Monitoring Period at \$255 per Sample			
	Storm	Imported	Recycled	A	M	J	J	A ³	S ³	O	N	D	J	F	M			A	M	J
Management Zone 1																				
Brooks Street Basin	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
College Heights Basins	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Montclair Basin 1	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Montclair Basin 2	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Montclair Basin 3	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Montclair Basin 4	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Seventh and Eighth Street Basins	X			1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	13	\$3,315
Upland Basin	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Management Zone 2																				
Ely Basins	X		X	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Etiwanda spreading area (joint use of Etiwanda debris basin) ⁴	X	X		1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	13	\$3,315
Hickory Basin ¹	X	X	X	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Lower Day Basin	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
San Sevaine No. 1	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
San Sevaine No. 2	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
San Sevaine No. 3	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
San Sevaine No.'s 4 and 5	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Turner Basin No. 1 ¹	X	X	X	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Turner Basin No. 234 ¹	X	X	X	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Victoria Basin	X	X		2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Management Zone 3																				
Banana Basin ¹	X	X	X	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Declez Basin ¹	X	X	X	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Etiwanda Conservation Ponds ¹	X			1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	13	\$3,315
IEUA RP3 Ponds ¹	X	X	X	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2	26	\$6,630
Totals				43	43	43	43	0	0	43	43	43	43	43	43	43	43	43	559	\$142,545

1 -- IEUA designated Phase 1 Basins that will receive recycled water for recharge
2 -- Sampled and analyzed only when water is stored in a recharge basin for recharge. Those basins that are used for recycled water and imported water will be sampled twice per month for the first monitoring period. Basins that only store storm water and nuisance flow will be sampled once per month. Analyses, required for DHS and RWQCB, include general mineral, general physical, TDS, TOC, total organic nitrogen, nitrate, nitrite, and ammonia. Frequency may be reduced after this first monitoring period.
3 -- Assumed recharge operations have ceased during this period and that maintenance is being done
4 -- Assuming that imported water recharge at the Etiwanda Spreading Area has been put on hold pending resolution of K-Rat issues.



CHINO BASIN WATERMASTER

June 24, 2004

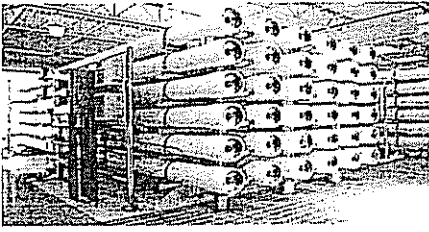
9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

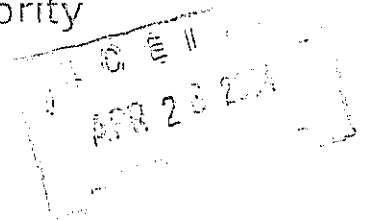
III. REPORTS/UPDATES

B. CEO/STAFF REPORT

1. Update Regarding Draft Chino I and Chino II Desalter Projects
Groundwater Monitoring and Mitigation Plan



Chino Basin Desalter Authority



April 20, 2004

Mr. John Rossi
Chief Executive Officer
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, California 91730

RE: CHINO I AND CHINO II DESALTER PROJECTS GROUNDWATER
MONITORING AND MITIGATION PLAN

Dear Mr. Rossi:

The Chino Basin Desalter Authority is pleased to provide you with the Final Draft of the Chino I and Chino II Desalter Projects Groundwater Monitoring and Mitigation Plan dated October 23, 2004.

Thank you for your cooperation and assistance in this regard. If you would like to discuss this matter, or if I can be of assistance, please contact me.

Sincerely,

Tom O'Neill
Senior Project Manager

Copy: Carole McGreevy
CDA Board of Directors
CDA Technical Committee
Admin\7020 CBWMLtr to JRossi re Final GWMMP 04 20 04.doc

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*Chino I and Chino II Desalter Projects
Ground Water Monitoring and Mitigation Plan*

Prepared for : The Chino Basin Desalter Authority

DRAFT

October 23, 2003

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**CHINO I AND CHINO II DESALTER PROJECTS
MONITORING AND MITIGATION PLAN**

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2	Chino I and Chino II Monitoring Wells

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1	Chino I Monitoring Wells
2	Chino II Monitoring Wells
3	Summary of Well Monitoring Frequency

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<u>Ltr.</u>	<u>Description</u>
A	Claim for Damages Form
B	Private Well Inspection Form

CHINO I AND CHINO II DESALTER PROJECTS GROUND WATER MONITORING AND MITIGATION PLAN

1.0 INTRODUCTION

The Chino Basin Desalter Authority (CDA) currently operates a desalination facility (Chino I) in the southern portion of the Chino Basin, near the Chino Airport (Figure 1). The facility consists of eleven production wells and a reverse osmosis treatment facility that were constructed beginning in 1997 and began operating in summer 2000. Production limitations at the existing facility and additional production requirements associated with implementation of the Optimum Basin Management Program have prompted the expansion of the existing facility with up to four more wells and additional treatment plant capacity. In addition, a second facility (Chino II) with up to eleven wells is planned to the east of the first one. The existing facility and wells (Chino I), the expansion portion of the existing facility (Chino I expansion) and the new facility and wells (Chino II) are referred to collectively in this report as the Chino Desalter.

1.1 Location of Project Area

The Chino Desalter is located within the Chino Basin in the southwestern portion of San Bernardino County and the northwest portion of Riverside County (Figure 1). The Chino Basin is a structural depression located between the San Gabriel Mountains to the north and the Chino and La Sierra Hills to the south. The valley floor, referred to as the Chino Plain (DWR, 1970), slopes gently to the south toward the Santa Ana River. Prominent physiographic features in the vicinity of the Project Area are the Chino Hills to the west-southwest, the Prado Flood Control Basin to the south, the Santa Ana River to the southeast and east, and the Chino Plain to the north.

1.2 Purpose and Scope

Based on the Draft Subsequent Environmental Impact Report (SEIR) and ground water modeling studies that support the SEIR (GEOSCIENCE, 2001), it has been determined that the Chino Desalter has the potential to lower ground water levels in existing agricultural wells in the vicinity of the Chino Desalter wells (Tom Dodson and Associates, 2001). Although the OBMP projects production from the Chino Desalter wells will replace declining agricultural production in the southerly part of the Chino Basin, and thus sustain approximately the same amount of gross production in this area, the purpose of the monitoring/mitigation program is to address potential localized impacts associated with the location and production patterns of the Chino Desalter wells. This Comprehensive Ground Water Monitoring and Mitigation Plan (CGMMP) has been developed as required by and in accordance with Section 4.3.4 of the SEIR (dated November 2001) and comments and responses to the SEIR (dated January 2002) to enable ground water level measurement and to provide plans to mitigate potential impacts to existing agricultural wells.

The objectives of the CGMMP are to:

1. Outline a ground water monitoring network that is adequate to assess potential ground water level declines resulting from the operation of the Chino Desalter wells;
2. Describe a ground water monitoring program that enables the continued establishment of baseline ground water conditions (prior to Chino Desalter pumping) and institutes an early warning system of potential ground water level impacts during Chino Desalter well operations;
3. Assess and differentiate impacts associated with the operation of the Chino Desalter wells relative to other agricultural wells operating in the vicinity, which, along with the Chino Desalter wells, may collectively impact, or contribute to impacting, agricultural wells in the vicinity; and

4. Provide a mitigation plan of sufficient detail to ensure that impacts to existing agricultural pumpers, as a result of ground water level declines from operation of the Chino Desalter wells, are remediated in an expeditious manner.

In support of outlining a ground water monitoring network and describing a ground water monitoring program, the Chino Basin Watermaster (Watermaster) currently monitors ground water levels in selected wells from a system of nearly 600 monitoring wells in the region of the Chino Desalter, including 130 monitoring wells in the immediate vicinity of Chino I and 139 monitoring wells in the immediate vicinity of Chino II. In addition, the Watermaster also monitors ground water levels in 141 monitoring wells in this area as part of another monitoring program. This system of ground water monitoring wells will be described in greater detail in Section 3.0.

Establishment of “baseline” ground water levels for the regional and ground water system in advance of project startup is critical. The Watermaster has and will continue to monitor ground water levels from a monitoring well network on a regular basis, prior to project startup, to establish water level trends (baseline hydrograph) resulting from local and regional pumping and seasonal effects. The resulting baseline hydrograph will serve as a “benchmark” against which ground water levels monitored during Chino Desalter operation are compared. Based on proximity to proposed Chino Desalter well sites, existing agricultural well pump settings and efficiency may also be assessed upon owner consent.

Chino Desalter ground water pumping will be adjusted during operation, where feasible, to aid minimization of drawdown in the vicinity of existing agricultural wells. Operational (i.e. pumping) adjustments will be made in the context of regional ground water level trends (not individual wells) as collected from the monitoring system consisting of existing wells currently monitored by the Watermaster. This network may be augmented through addition of existing wells or construction of new monitoring wells as deemed necessary. Ground water levels will be monitored on a regular basis. The monitoring network is described in detail in Section 2.0. Monitoring protocol details are outlined in Section 3.0.

Potential impacts to existing pumpers in the vicinity of the Chino Desalter will be addressed through a Response and Mitigation Plan. This plan outlines a protocol to evaluate reported adverse impacts and delineates criteria for determining responsibility for these impacts. In the event that a well owner reports an impact, the CGMMP includes a protocol to supply emergency water to affected parties, if requested per Section 4.1, in case of the following impacts:

1. Decreased pump production efficiency resulting from ground water level decline,
2. Ground water levels lowered below pump intake;
3. Ground water levels lowered below effective depth of well; and
4. Increased pumping costs due to depressed ground water levels.

2.0 MONITORING WELL NETWORK

The monitoring network proposed for the Chino Desalter consists of the wells currently monitored by the Watermaster for the Chino I and Chino II desalter water level monitoring program. As part of this program, the Watermaster currently monitors ground water levels in a well network comprised of approximately 250 wells in the vicinity of the Chino Desalter. The monitoring wells specific to the Chino Desalter have been grouped by the Watermaster into Chino I monitoring wells and Chino II monitoring wells. The monitoring frequency of the wells in this network varies from weekly to infrequently (only a few times a year). It is anticipated that Watermaster will continue to monitor ground water levels in these wells prior to and during Chino Desalter operation.

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2.1 Chino I Monitoring Wells

A summary of wells designated by the Watermaster for monitoring ground water levels in the vicinity of the Chino I extraction wells is shown in Table 1. Chino I ground water monitoring well locations are shown on Figure 2. This monitoring well network consists of approximately 160 wells located within approximately one mile of the Chino I expansion extraction wells (30 of the wells also are included in the Chino II monitoring well network).

2.2 Chino II Monitoring Wells

A summary of wells designated by the Watermaster for monitoring ground water levels in the vicinity of the Chino II extraction wells is shown in Table 2. The locations of the Chino II ground water monitoring wells are shown on Figure 2. The Chino II monitoring well network consists of approximately 120 wells situated within approximately one mile of the Chino II extraction wells (30 of the wells also are included in the Chino I monitoring well network).

2.3 Changes to the Monitoring Well Network

The monitoring network outlined in this plan represents the wells currently monitored by the Watermaster to assess ground water level declines associated with operation of the Chino Desalter. As additional data become available during the course of Chino Desalter well field construction and operation, the number and location of monitoring features may be refined, as necessary, to assess more adequately ground water conditions in the area. All proposed changes to the monitoring network will be submitted, in writing, to a technical review team (TRT) for review and consideration (see Section 5 for details regarding the TRT). If approved by the TRT, the recommended changes to the monitoring network would be submitted to the Watermaster and CDA for approval and final implementation.

3.0 MONITORING AND REPORTING

3.1 Monitoring Frequency

The Watermaster monitors ground water levels in each of the wells in the Chino I and Chino II well sets at prescribed intervals as summarized in Table 3. As of the preparation of this document, a total of 24 wells are monitored on a weekly basis; an additional 111 wells are monitored once every other week; an additional 124 wells are monitored on a monthly basis. All of the wells monitored at these intervals are within approximately one mile of the Chino Desalter wells.

All proposed changes to the monitoring frequency will be submitted, in writing, to the TRT for review and consideration as described in Section 5. If approved by the TRT, the recommended changes to the monitoring network would be submitted to the Watermaster and CDA for final approval and implementation.

3.2 Reporting Procedures

Reports summarizing all monitoring data, refinements of the parameters used in the Watermaster's ground water model, revisions to the monitoring well network and monitoring frequency, and any other recommendations of the TRT will be prepared on an annual basis. The Watermaster will be responsible for the preparation of annual reports beginning one year after commencement of project construction.

Each report will contain the following components:

- Baseline ground water level conditions (to be defined in the first report);
- Tables summarizing ground water production for each project extraction well;
- Tables summarizing depth to static water level and ground water elevation measurements for all observation wells;

- Hydrographs of selected observation wells;
- Tables summarizing frequency of monitoring well sampling;
- Ground water elevation contours;
- Summary of project developments, such as changes in extraction operations or construction of new monitoring or production wells;
- Discussion of project extraction operations, and trends in ground water levels as compared to the baseline conditions;
- Updated ground water flow model results; and
- Summary of refinements to the CGMMP.

All annual reports will include electronic data files and model input and output files. The annual reports will be available to agencies, organizations, interest groups, and the general public upon written request to CDA.

4.0 RESPONSE AND MITIGATION PLAN

As Chino Desalter operations are anticipated to lower ground water levels, a response and mitigation plan has been developed in the event that existing agricultural wells are adversely impacted. Potential impacts requiring mitigation could include:

- Decrease in pump efficiency in excess of five percent (5%) of baseline as a result of lowered ground water levels;
- Ground Water levels lowered below pump intake;
- Ground Water levels lowered below effective depth of well; and
- Increase pumping costs in excess of five percent (5%) of baseline due to lowered ground water levels.

The CDA Board of Directors (“CDA Board”) shall appoint a coordinator (the “CDA Coordinator”) to implement this mitigation plan. CDA’s actions to address property owner (“Claimant”) allegations of agricultural well impacts under this Mitigation and Monitoring Plan shall in no manner be construed as acceptance of liability or responsibility for any alleged well impacts.

Any written claims of well impact allegedly due to operation of the Chino Desalter will be treated as a “claim” pursuant to the California Government Tort Claims Act and will be addressed according to the following general approach:

- As detailed in Sections 4.1-4.3 below, CDA will provide for an interim supply of water to the Claimant for purposes of enabling CDA to evaluate the alleged impact on the claimant’s well;
- The CDA Coordinator will immediately obtain the data necessary to assess the cause of well/pump problems;
- The CDA Coordinator will review the data and make a determination as to whether the well impact is attributable to Chino Desalter pumping or other factors not associated with Desalter operation;
- If the CDA Coordinator determines that the well/pump impact is not attributable to Chino Desalter well pumping, the CDA Coordinator will notify the Claimant within __ days of such determination and, and upon the Claimant’s request, make its best efforts to provide water for a maximum of thirty (30) days at the Claimant’s sole cost and expense; and
- If the CDA Coordinator finds the well/pump problem is attributable to Chino Desalter pumping, then further mitigation measures will be implemented as described in Section 4.2 below.

Concurrently with the above-referenced actions, the CDA Board will review, consider and accept or reject the claim pursuant to the requirements and timelines set forth in the California Government Tort Claims Act.

4.1 Response

Many of the individual well owners in the vicinity of the Chino Desalter have backup plans for an emergency supply of water should their existing water supply system fail. As an additional backup, a response plan has been developed that includes measures for providing temporary water where water system failure is allegedly caused by Chino Desalter pumping (“Temporary Water”). Provision of Temporary Water and/or other emergency response measures may be immediately implemented until the exact cause of the impact is determined or, if necessary, mitigation is implemented. Response measures may include:

- Connections to existing potable, raw water or recycled water supplies in accordance with regulatory and local jurisdictional requirements;
- Use of existing piping/pumping facilities;
- Use of existing well owner back up wells and other miscellaneous facilities available;
- Use of neighboring owners’ facilities; and
- Trucking of water to the Claimant in conformance with water quality requirements consistent with intended use of water.

Implementation of emergency response measures by the CDA will require a written claim for damages from the impacted party (“Claimant”) (see Appendix A for Claim for Damages Form). CDA’s implementation of response measures shall not be construed as an acceptance of liability and/or responsibility for water system failures; such measures reflect only CDA’s mitigation of potential damages. The Claim for Damages Form includes a right of entry authorization and release of liability (“Claim Form”). Once the Claim Form has been received, the CDA

Coordinator will immediately arrange a temporary supply of water, if necessary. The Claim Form will be required to allow the CDA Coordinator or his designee to inspect the well and collect the data necessary to determine the cause of the impact. Temporary Water will be discontinued unless the Claimant provides inspection access and all available information related to the claim within 24 hours of submission of the claim.

4.2 Impact Assessment

After a well impact has been reported to the CDA (and concurrent with the supply of Temporary Water, if needed), the CDA Coordinator will be responsible for the inspection and data collection necessary to assess the cause of the impact. Certain basic information must be obtained regarding the well and pumping equipment before an assessment of Chino Desalter well related impacts and potential mitigation measures can be evaluated (see Appendix B for Private Well Inspection Form). All information collected to assess well impact will be evaluated by CDA and summarized in a brief letter report or technical memorandum and submitted to the Claimant. The report or technical memorandum will include a preliminary determination as to whether the claim is attributable to the Chino Desalter well operation. It will also summarize future steps, if any, to be taken.

In the event that the Claimant submits a written challenge to any preliminary determination by the CDA Coordinator, a copy of the Claimant's challenge and CDA Coordinator's report or technical memorandum will be distributed to the Technical Review Team ("TRT"), as defined in Section 5, *infra*. The TRT will meet and render an opinion regarding whether Chino Desalter well pumping has caused the well/pump-related impact, as described in Section 5. In the event that the TRT determines that the well/pump-related impact is not caused by Chino Desalter well pumping, no mitigation will be recommended. If the TRT determines that the well/pumping-related impact may be a result of Chino Desalter well pumping, the TRT may submit a written recommendation that the claim be mitigated by the CDA. During the pendency of the claim before the TRT, the CDA Board may act on the claim in accordance within the California Government Tort Claims Act. Upon receipt of a written recommendation from the TRT that a

claim be mitigated by CDA, CDA shall conduct a hearing on the TRT's recommendation at its next regularly scheduled Board meeting, which hearing may be held concurrently with or subsequent to any CDA Board action pursuant to the California Government Tort Claims Act. The CDA Coordinator shall provide written notice to the Claimant of the date, time and location of the hearing. The Claimant shall have the opportunity to address the CDA Board at the hearing. The CDA Board shall consider all evidence presented to it and determine whether the impact is attributable to Chino Desalter well activities.

If the CDA Board approves the recommendation of the TRT, the CDA will direct CDA staff to carry out the approved mitigation measures in an expedited manner.

The following detailed procedures may be utilized to collect the information necessary to assess impacts to private wells:

- Perform an SCE-type pump test to evaluate pumping and static water levels, current well specific capacity and current pump condition;
- Temporarily pull the pump from the well;
- Verify the current pumping equipment, including pump and motor type, pump and motor manufacturer, model number and specifications, pump performance curves, and pump set depth;
- Evaluate SCE test results in conjunction with pump manufacturers' performance specifications. If the pump is found to be worn out, the Claimant will be responsible for pump replacement;
- Measure well diameter and current well depth;
- Conduct a down-hole video log to confirm the condition of the casing and perforated intervals. If the well integrity is questionable due to well age or excessive corrosion, or if the well produces sand due to corrosion holes in the casing, the Claimant shall be responsible for well repair or replacement;

- Reinstall the pump. As a preliminary mitigation measure, the pump may be set to a greater depth (if possible and warranted based on anticipated pumping and static water levels);
- Install a one-inch diameter PVC water-level sounding tube when resetting pump;
- Install a pressure transducer in the sounding tube to obtain ongoing ground water level data from the well. The transducer will provide a continuous record of pumping levels, as well as the approximate static ground water level when the pump is periodically shut off;
- Initiate a monitoring program to collect data regarding the well pumping rate and pressure, cumulative volume pumped, pumping ground water levels, and static ground water levels; and
- Prepare a report or technical memorandum summarizing the information collected during the well inspection and testing.

4.3 Mitigation Plan

In the event that the CDA Board determines that pumping from the Chino Desalter wells has adversely impacted an existing well, CDA may implement a mitigation measure(s) for the existing well to restore the lost production. Mitigation measures that could be adopted to address impacts attributed to the Chino Desalter include the following:

- If pump submergence is inadequate, lower the pump, if possible.
- If well capacity is adequate but pump manufacturer specifications indicate that the current pump is undersized due to additional pumping lift drawdown caused by the Chino Desalter wells, replace the pump with a higher head pump.
- In the event that the well depth limits the ability to mitigate drawdown caused by operation of the Chino Desalter wells, drill a replacement well or provide an alternate source of water.

5.0 TECHNICAL REVIEW TEAM

A Technical Review Team (TRT) will be formed as part of the CGMMP to periodically review data and technical reports resulting from claims of well impact due to operations of the Chino Desalter wells. The TRT will consist of engineers and/or hydrologists assigned by the stakeholders (as defined in Section 5.1 below) in the vicinity of the Chino Desalter. The TRT shall review data and technical analyses collected by the CDA Coordinator or collected from other sources and provide technical comments and recommendations to the CDA Board regarding the source of impacts allegedly caused by Chino Desalter wells.

5.1 Representation

The TRT shall consist of up to two technical experts appointed by each of the following groups:

- CDA;
- Appropriative Pool, as that group is defined in Exhibit “E” to the Judgment entered in San Bernardino Superior Court Case No. RCV 51010 entitled Chino Basin Municipal Water District v. City of Chino, et al.;
- Agricultural Pool, as that group is defined in Exhibit “E” to the Judgment entered in San Bernardino Superior Court Case No. RCV 51010 entitled Chino Basin Municipal Water District v. City of Chino, et al.; and
- Milk Producers Council.

Additionally, the CDA may consult with other public agencies deemed to have relevant expertise or interest such as the California State Department of Water Resources, the Chino Men’s and Women’s Institutes (State of California), the California Department of Toxic Substances Control, the Orange County Water District and/or the California Regional Water Quality Control Board – Santa Ana Region (RWQCB), as necessary. The CDA may also invite guests to participate in meetings of the TRT to present, explain, or clarify the data and analyses collected in accordance with the CGMMP.

5.2 Responsibilities

The CDA Coordinator will convene timely meeting(s) of the TRT to review and make recommendations to the CDA Board regarding monitoring claims of adverse impacts allegedly caused by Chino Desalter activities and changes to the CGMMP. After the startup of Chino I expansion and Chino II desalter wells, the TRT will meet at the request of the CDA Coordinator or as necessary (minimum of one time per year) to:

- Review and analyze monitoring data and updated model results;
- Review data and information collected to assess adverse impacts to preexisting wells in the vicinity of the Chino Desalter;
- Provide recommendations to the CDA Board regarding submitted claims of adverse impacts to preexisting wells as a result of Chino Desalter operations; and
- Review proposed refinements to the CGMMP.

5.3 Recommendations to the CDA

TRT recommendations to the CDA may include (but are not limited to):

- Changes to the number or location of monitoring wells;
- Changes in monitoring frequency;
- Changes in monitoring technology;
- Refinement of action criteria for evaluating potential adverse impacts to preexisting wells;
- Refinement of models;
- Other modifications to the CGMMP; and
- Mitigation measures for impacted well owners.

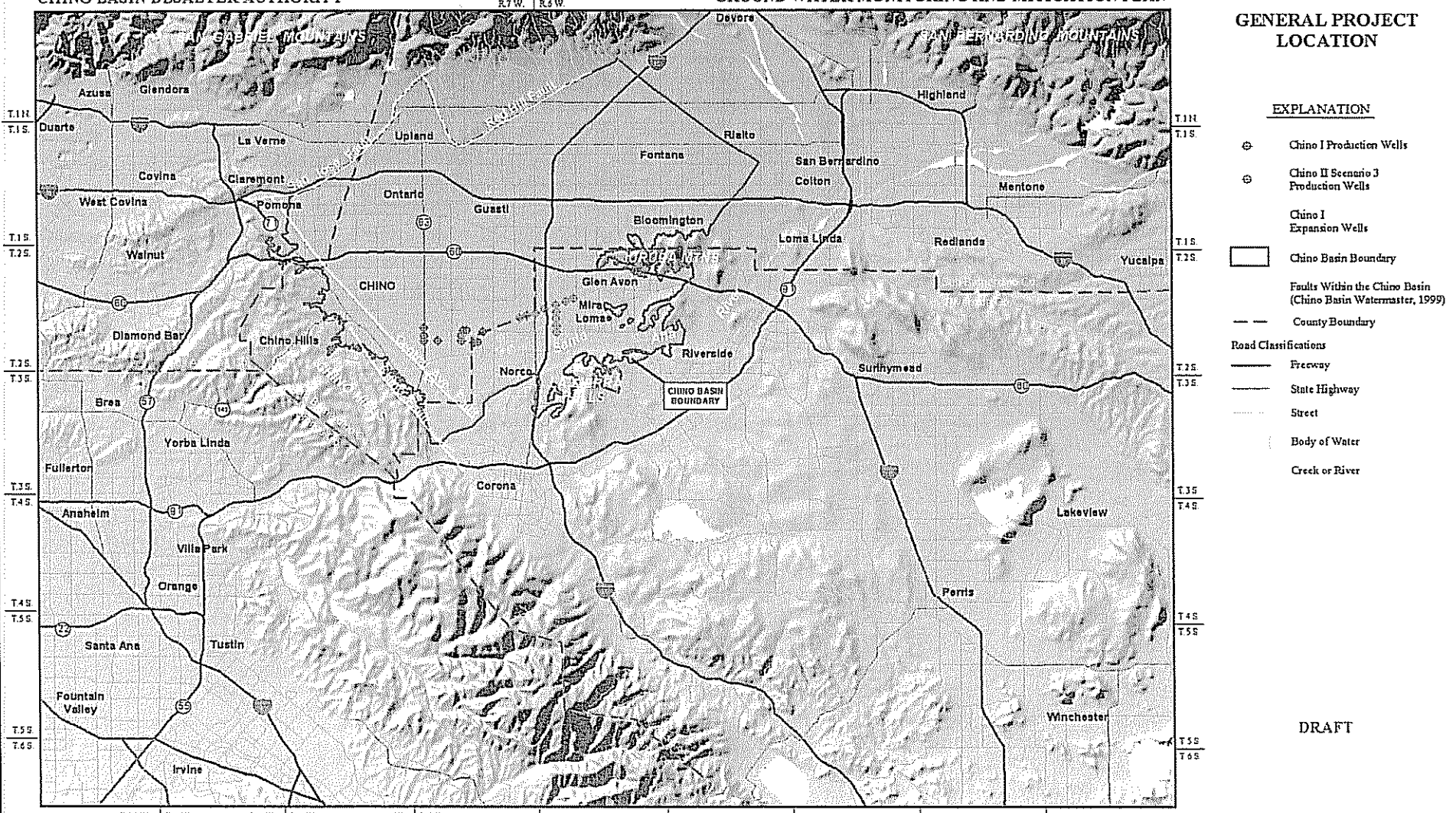
6.0 REFERENCES

- Chino Basin Watermaster, 2003. *Optimum Basin Management Program, Management Zone 1 (MZ-1) Interim Monitoring Program, Draft Work Plan*, January 8, 2003.
- GEOSCIENCE Support Services, Inc., 2001. *Geohydrologic Analysis and Ground Water Flow Model of Proposed Chino Desalter System Projects Area*. August 31, 2001. Prepared for Santa Ana Watershed Project Authority/RBF Consulting.
- Tom Dodson and Associates, 2001. *Volume 1, Draft Subsequent Environmental Impact Report. Chino I Desalter Expansion and Chino II Desalter Project*. November 2001. Prepared for the Chino Basin Desalter Authority.

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CHINO BASIN DESALTER AUTHORITY

CHINO I AND CHINO II DESALTER PROJECTS -
GROUND WATER MONITORING AND MITIGATION PLAN



GENERAL PROJECT LOCATION

EXPLANATION

- ⊕ Chino I Production Wells
- ⊕ Chino II Scenario 3 Production Wells
- Chino I Expansion Wells
- ▭ Chino Basin Boundary
- Faults Within the Chino Basin (Chino Basin Watermaster, 1999)
- County Boundary
- Road Classifications
 - Freeway
 - State Highway
 - Street
- Body of Water
- Creek or River

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22-NOV-02
Prepared by: DWB

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Figure 1

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Map Projection:
UTM 1927 (Zone 11)
Central Meridian: -117 degrees



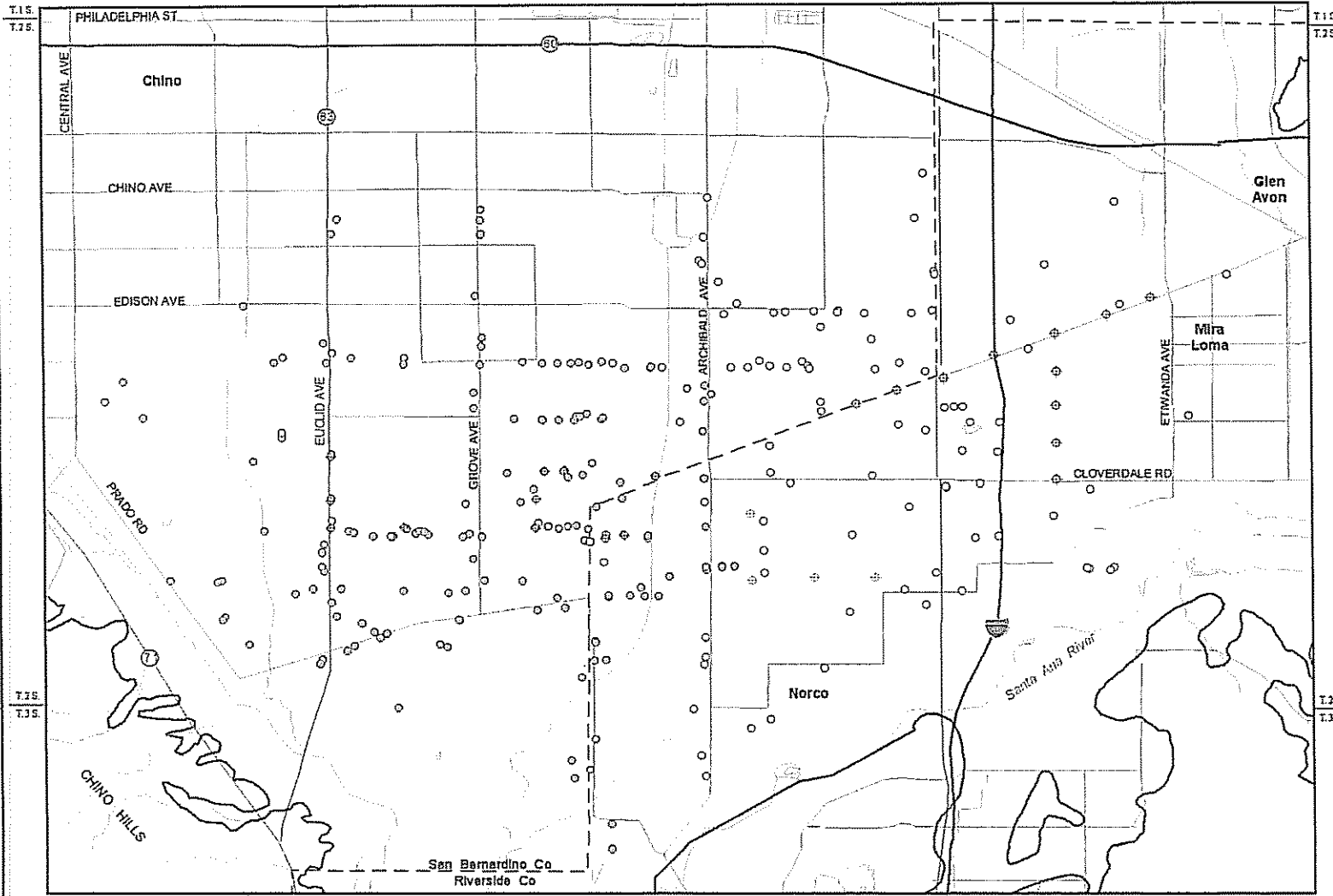
CHINO BASIN DESALTER AUTHORITY

CHINO I AND CHINO II DESALTER PROJECTS - GROUND WATER MONITORING AND MITIGATION PLAN

CHINO I AND CHINO II MONITORING WELLS

EXPLANATION

- Chino I Monitoring Wells
- Chino II Monitoring Wells
- Wells Monitored for Both Chino I and Chino II
- ⊕ Chino I Production Wells
- ⊕ Chino II Production Wells (Proposed)
- ⊕ Chino I Expansion Wells
- ▭ Chino Basin Boundary
- - - County Boundary
- Road Classifications
- Freeway
- State Highway
- Street
- ▭ Body of Water
- - - Creek or River



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Map Projection:
UTM 1927 (Zone 11)
Central Meridian: -117 degrees

Source of Well Data: Wildermuth Environmental, Inc. (2000).



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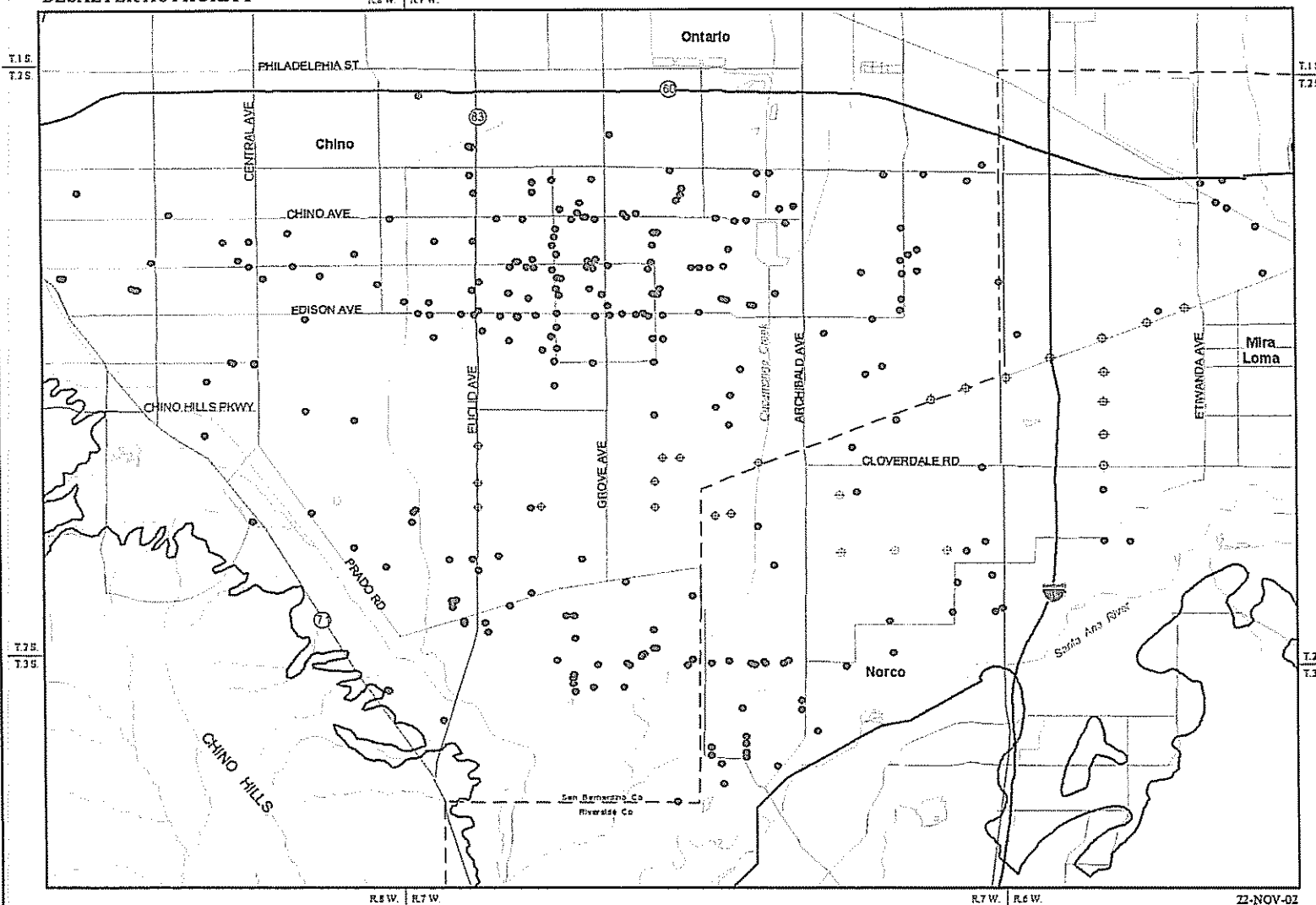
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Figure 2

CHINO BASIN
DESALTER AUTHORITY

CHINO I AND CHINO II DESALTER PROJECTS -
GROUND WATER MONITORING AND MITIGATION PLAN

WATERMASTER
REGIONAL
MONITORING WELLS
IN THE VICINITY OF
THE CHINO DESALTER



- EXPLANATION**
- CBWM Regional Monitoring Wells
 - ⊕ Chino I Production Wells
 - ⊕ Chino II Production Wells (Proposed)
 - ⊕ Chino I Expansion Wells
 - ▭ Chino Basin Boundary
 - - - County Boundary
 - Road Classifications**
 - ▬ Freeway
 - ▬ State Highway
 - ▬ Street
 - ▭ Body of Water
 - ▬ Creek or River

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Map Projection:
UTM 1927 (Zone 11)
Central Meridian: -117 degrees

Source of Well Data: Wildermuth Environmental, Inc. (2000)

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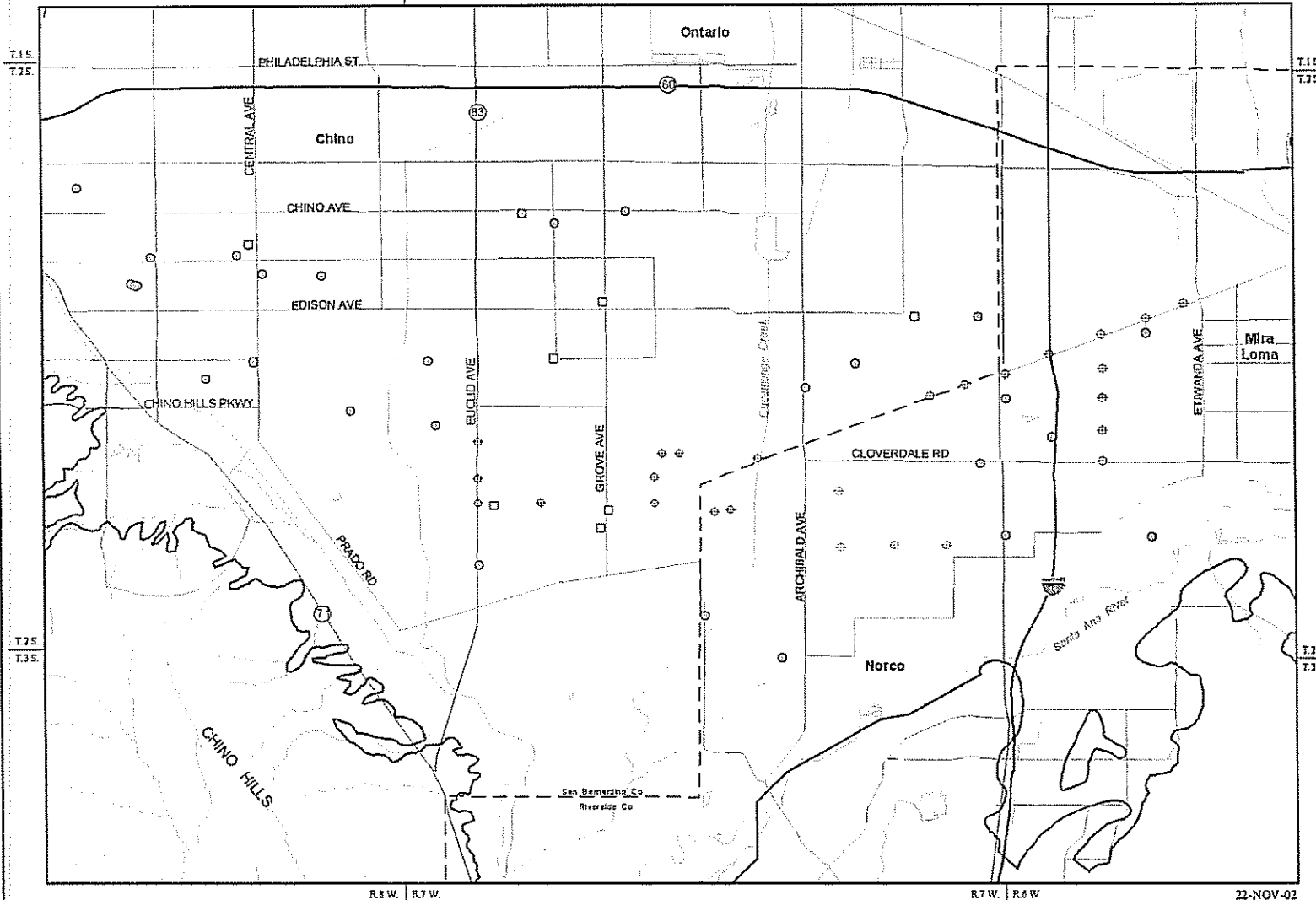
Figure 3

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CHINO BASIN
DESALTER AUTHORITY

CHINO I AND CHINO II DESALTER PROJECTS -
GROUND WATER MONITORING AND MITIGATION PLAN

WATERMASTER
MONITORING WELLS
BY MODEL LAYER



EXPLANATION

- Monitoring Wells Screened in Model Layer 1
- Monitoring Wells Screened in Model Layer 2
- Monitoring Wells Screened in Model Layers 1 and 2
- ⊕ Chino I Production Wells
- ⊕ Chino II Production Wells (Proposed)
- ⊕ Chino I Expansion Wells
- ▭ Chino Basin Boundary
- - - County Boundary
- Road Classifications
- Freeway
- State Highway
- Street
- ▭ Body of Water
- Creek or River

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Prepared by: DWB



Map Projection:
UTM 1927 (Zone 11)
Central Meridian: -117 degrees

Source of Well Data: Wildermuth Environmental, Inc. (2000)

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Figure 4

Table 1
 Chino I Monitoring Wells

WEID	Site Well No.	Owner	Local Name	Completion Year	Borehole Depth [ft bpf]	Borehole Diameter [inches]	Casing Depth [ft bpf]	Minimum Casing Diameter [inches]	Maximum Casing Diameter [inches]	Performed Interval [ft bpf]		Well Location [ft]		Ground Surface Elevation	Layer 1 Top Elevation	Layer 1 Bottom Elevation	Layer 2 Bottom Elevation	Layers Screened
										Interval No.	From	To	UTM X					
1202479	02S07W17N	OWNER UNKNOWN	AGIU LOCKHEED									442636.321	3759046.249					
1202531	02S07W18N	OWNER UNKNOWN	AGIU LOCKHEED									443870.952	3757737.602					
1202532	02S07W18N	BEAUMONT-CHERRY VALLEY WATER DISTRICT	6									503454.000	3765948.000					
1202578	02S07W18N	BORBA, JOSEPH	BORBA, JOSEPH DAIRY									442968.084	3761032.195	672	599	-263		
1202579	02S07W18N	VAN RYN DAIRY	BORBA, JOSEPH DAIRY									444515.361	3758570.258	617	554	16		
1202479	02S07W17N	SO CAL AGRICULTURAL LAND FND.	DAIRY DOM									444118.659	3760952.600	672	400	-88		
1202531	02S07W18N	VERHOEVEN, MARTIN	DAIRY DOM									440318.142	3761106.370	675	429	-426		
1202532	02S07W18N	ASTOR & PHILLIPS	DAIRY DOM									450587.781	3761125.357	656	452	-436		
1202578	02S07W18N	Mrs. Jeffrey L.	DAIRY DOM									450927.798	3761527.945	668	435	-444		
1202579	02S07W18N	STATE OF CALIFORNIA, CIM	DAIRY DOM									450344.271	3760055.353	621	317	-245		
1202578	02S07W18N	OWNER UNKNOWN	DAIRY DOM									450211.610	3761056.470	651	454	-429	1, 2	
1202579	02S07W18N	OWNER UNKNOWN	DAIRY DOM									450338.992	3759992.899	629	619	-230		
1202578	02S07W18N	STATE OF CALIFORNIA, CIM	DAIRY DOM									450341.083	3760117.634	624	350	-266	1, 2	
1202579	02S07W18N	State of California, CIM	DAIRY DOM									450117.760	3759030.770	669	321	-403	1, 2	
1202580	02S07W18N	Borba, George	DAIRY DOM									450093.156	3760610.851	668	397	-305		
1202553	02S07W20N	BORBA, JOSEPH	BORBA, JOSEPH DAIRY									440745.279	3761023.362	665	416	-395		
1202554	02S07W20N	SO CAL AGRICULTURAL LAND FND.	DAIRY DOM									441248.004	3760677.229	658	382	-559		
1202555	02S07W20N	HARRIGA, RUDY	DAIRY DOM									452014.460	3760386.924	656	596	-300		
1202556	02S07W20N	DE VRIES, ABRAHAM	DAIRY DOM									441888.054	3759051.581	618	379	-186		
1202557	02S07W20N	DYER, JOHANNA TRUST	DAIRY DOM									443410.548	3760209.653	661	387	-165		
1202558	02S07W20N	DYER, JOHANNA TRUST	DAIRY DOM									445437.611	3760361.508	660	387	-165		
1202576	02S07W21N	LEE, HELENETTA	DAIRY DOM									443184.919	3761024.433	658	389	-206		
1202577	02S07W21N	VAN VLIET, NICK	DAIRY DOM									442665.336	3760324.135	658	389	-216		
1202578	02S07W21N	VAN VLIET, NICK	DAIRY DOM									442623.267	3760311.008	657	388	-208		
1202579	02S07W21N	VAN VLIET, NICK	DAIRY DOM									443052.080	3760252.653	674	399	-254		
1202580	02S07W21N	BORBA, JOSEPH	DAIRY DOM									443369.288	3761052.959	676	399	-210		
1202581	02S07W21N	BORBA, JOSEPH	DAIRY DOM									442696.589	3761048.301	678	399	-191		
1202582	02S07W21N	BORBA, JOSEPH	DAIRY DOM									443485.669	3761035.145	672	400	-298		
1202583	02S07W21N	BORBA, JOSEPH	DAIRY DOM									442853.884	3761063.385	675	400	-282		
1202584	02S07W21N	INLAND EMPIRE DAIRY	DAIRY DOM									443378.960	3760304.276	664	387	-146		
1202585	02S07W21N	ALBERS, RAY	DAIRY DOM									443197.705	3760210.883	663	388	-139		
1202590	02S07W21N	SO CAL AGRICULTURAL LAND FND.	DAIRY DOM									443494.022	3760259.861	658	387	-188		
1202598	02S07W22N	WIERSEMA, HARRY	DAIRY DOM									443570.366	3760227.105	655	391	-264	1, 2	
1202601	02S07W22N	FIER, BILL	DAIRY DOM									444623.455	3760965.608	675	402	-53		
1202602	02S07W22N	FIER, BILL	DAIRY DOM									444474.224	3760995.887	675	401	-52		
1202611	02S07W22N	ALWAYN, JAKE	DAIRY DOM									444481.359	3760978.834	675	401	-52		
1202618	02S07W22N	TURHOUT, HARRY	DAIRY DOM									443970.000	3760953.000	678	399	-169		
1202622	02S07W22N	ANGELAR, GENDIAS TRUST	DAIRY DOM									444082.443	3760453.790	667	393	-82		
1202623	02S07W22N	TREE VEE DAIRY	DAIRY DOM									443176.000	3760445.000	663	391	54		
1202624	02S07W22N	GOLDEN WEST DAIRIES	DAIRY DOM									445232.580	3760441.508	666	397	7		
1202625	02S07W22N	GOLDEN WEST DAIRIES	DAIRY DOM									445195.171	3760043.456	666	397	7		
1202652	02S07W22N	SO CAL AGRICULTURAL LAND FND.	DAIRY DOM									444872.753	3760043.456	653	388	7		
1202634	02S07W22N	SO CAL AGRICULTURAL LAND FND.	DAIRY DOM									443786.820	3760219.020	663	386	-109		
1202634	02S07W22N	SO CAL AGRICULTURAL LAND FND.	DAIRY DOM									4433813.442	3760240.974	664	387	-103		

Table 1
 Chino I Monitoring Wells

WE ID	State Well No.	Owner	Local Name	Completion Year	Borehole Depth	Borehole Diameter	Casing Depth	Minimum Casing Diameter	Maximum Casing Diameter	Perforated Interval			Well Location		Ground Surface Elevation	Layer 1 Top Elevation	Layer 1 Bottom Elevation	Layer 2 Bottom Elevation	Layers Screened
										Interval No.	From	To	UTM X [m]	UTM Y [m]					
					[ft bgs]	[inches]	[ft bgs]	[inches]	[inches]	[ft bgs]			[ft amsl]						
I202827	02S07W30L	JINDABURU, MARCELINE	40200-IRR-NORTH										439884.298	3758150.258		582	324	100	
I202832	02S07W30M	CHINO VALLEY INVESTMENT	16310-HOUSE										439319.017	3758595.883		582	318	100	
I202834	02S07W30M	J.B.'S CALVES	730-40H										439085.298	3758643.508		581	313	100	
I202838	02S07W30R	APHESSETCHE, NAVIER	2760										440317.317	3757880.195		575	335	5	
I203992	02S07W31A	VISSER, HENRY	88720-IRR										439517.924	3757768.337		572	324	46	
I202842	02S07W31A	SOUZA, FRANK	75280-DOM										440148.048	3757836.443		562	293	100	
I206510	02S07W31A	Boe, John											440092.561	3757447.852		562	311	51	
I202845	02S07W31B	GOYENETCHE, ALBERT	DOM										439765.986	3757837.370		571	307	100	
I202861	02S07W31H	LIZZARAGA, FRANK	IRRIGATION										440441.940	3757354.760		563	326	-6	
I202862	02S07W31H	LIZZARAGA, FRANK	DOMESTIC										440432.218	3757355.474		563	326	-6	
I206467	02S07W31H	LIZZARAGA, FRANK	Sprinkler System										440435.476	3757350.574		563	326	-6	
I203999	02S07W31H02	GREYANUS, GERRITT	11120-IRR	1957			235	12		1	74	224	440012.295	3757649.936	566	366	312	81	1
I202860	02S07W31K	ROCHA, JOHN	DOM										440695.178	3757141.731		565	329	-28	
I202877	02S07W32B	WESTRA, H & R DAIRY	DOM-DAIRY										441632.228	3757760.217		588	360	-106	
I202882	02S07W32C	VAN VLIET, HUGO	DOMESTIC										441022.705	3757812.758		578	356	-103	
I202884	02S07W32E	BARTHELEMY, H & R DAIRY	5120-IRR										440778.546	3757205.646		566	334	-51	
I202886	02S07W32E	MARQUEZ DAIRY	DAIRY/DOMESTIC				300		8.625	1	150	290	440610.892	3757235.695		566	329	-29	1,2
I202896	02S07W32G	BARTHELEMY, H & R DAIRY											441538.351	3757378.367		571	349	-100	
I202900	02S07W32H	WESTRA, H & R DAIRY	DOM-PINE										441799.178	3757390.092		586	351	-100	
I206495	02S07W32H	Westra, Henry	Dairy/Dom										441783.559	3757397.075		586	352	-100	
I202911	02S07W33A	STUEVE BROTHERS FARMS	BARN #3										442672.330	3757943.445		604	373	-112	
I202915	02S07W33B	VANDER POEL, PETE	85840-DOM										443263.548	3757560.508		597	367	-58	
I202917	02S07W33C	IDSINGA, WILLIAM	95017-IRR										442809.720	3757549.172		596	374	-88	
I202924	02S07W33D	STUEVE BROTHERS FARMS	BARN #5										442142.267	3757948.820		592	370	-100	
I204067	02S07W33H02	STUEVE BROTHERS FARMS	BARN #1										442879.892	3757530.633		603	372	-124	
I202926	02S07W33H02	VANDER POEL, PETE	DOM BACKUP										443449.173	3757342.370		596	374	-80	
I204052	02S07W34A01	VERMEER, DICK	NO 4										445088.189	3757727.107		606	344	100	
I206481	02S07W34B	Bootsma, Hee	CALVES				124	0	8.625	1	113	123	444565.306	3757731.629	605.0011	604	344	64	1
I202956	02S07W34C	ANGELINE ROUKEMA	DOM-0.00975										444170.439	3757740.357	603.8305	602	348	-5	
I202958	02S07W34C	WESTSTEYN, PETE	DOM										443870.942	3757721.963	603.9242	601	352	-22	1
I202959	02S07W34C91W	VAN DER LINDEN DAIRY	IRRIG 1										444374.830	3757728.370		599	345	16	
I202963	02S07W34E	VAN DER LINDEN, STANLEY	2 DOM				150			1	60	150	443675.298	3757094.008		581	358	-4	1
I202964	02S07W34E	VAN DER LINDEN, STANLEY	1 IRRIG										443680.830	3757078.738		581	358	-4	
I203237	02S08W25J	LEKKERKERK, LEENDERT	48000-DOM										438503.303	3758485.824		580	297	100	
I203238	02S08W25J	LEKKERKERK, LEENDERT	48000-IRR										438727.959	3758654.010		584	304	100	
I203248	02S08W25M	BOSNYAK, MARTIN	81640-3										439623.973	3758617.822		589	332	100	
I206527	257W22C	Van's Dairy	Capped										444119.698	3760953.479		672	400	-88	

Note: Ground Surface Elevation is from Chino Basin Watermaster database. Layer 1 top elevation is from GEOSCIENCE, 2001 digital elevation model. Some elevation difference may exist between the two values (which represents ground surface deviation).

Table 1
 China I Monitoring Wells

WE ID	State Well No.	Owner	Local Name	Completion Year	Borehole Depth [ft bgs]	Borehole Diameter [inches]	Casing Depth [ft bgs]	Minimum Casing Diameter [inches]	Maximum Casing Diameter [inches]	Perforated Interval			Well Location		Ground Surface Elevation [ft amsl]	Layer 1 Top Elevation	Layer 1 Bottom Elevation	Layer 2 Bottom Elevation	Layers Screened
										Interval No.	From	To	UTM X [m]	UTM Y [m]					
										[ft bgs]			[m]						
1202641	02S07W22N	SO.CAL.AGRICULTURAL LAND FND.	DOM									443653.536	3759595.775	649.8884	648	377	-101		
1202643	02S07W22R	DYT, ANDY	standby cels									443205.524	3759381.857		641	373	64		
1202644	02S07W22R	IMBACH RANCH INC	1									443220.464	3759383.847		641	373	64		
1202664	02S07W23E	OMLIN, ANTON	IRR			207	0	8	1	150	198	443502.298	3760595.258		668	395	55	1	
1003919	02S07W23E01	OMLIN, ANTON	DOM	1956		207	8		1	150	198	443523.953	3760582.883	670	667	396	-41	1	
1202676	02S07W23N	HOUSSELS, J K	3									443840.529	3760175.454		664	388	93		
1202690	02S07W24D	ANGUIANO, RUBEN	2690									438977.217	3758658.942		581	308	100		
1202737	02S07W26M	MERSMA, HARRY										445625.504	3758149.767		620	350	155		
1206475	02S07W26N	Tillena, Harold	CAPPED									445456.973	3758148.657		619	350	122		
1202758	02S07W26N02	VERMEER, DICK	NO 5									445454.417	3758138.900		618	349	131		
1003952	02S07W27	CORONA DAIRY RANCH	47320-NEW									445226.454	3758697.417		628	360	74		
1003953	02S07W27A	L D S WELFARE RANCH										445256.344	3759122.177		656	367	75		
1202749	02S07W27A04	WEIDMAN MAURICE										445221.392	3759061.153		653	367	71		
1202750	02S07W27C	MOONS, JACK	HOUSE									444060.142	3759108.508	630.4586	635	367	-45		
1202755	02S07W27C01	MOONS, JACK	DOM-DAIRY			130	10					443702.736	3758982.508	633	631	366	-72		
1202754	02S07W27D	SO CAL AGRICULTURAL LAND FND.	DOM									443936.000	3759402.000	638.4525	640	370	-53		
1202755	02S07W27D	SO CAL AGRICULTURAL LAND FND.	IRR									442960.000	3759314.000	640.552	640	370	-53		
1202758	02S07W27F	SALVADOR, FRANK										444317.783	3757845.982		604	347	12		
1202762	02S07W27N	KOOPMAN, TENA										443802.658	3758206.857	615.3223	614	356	-41		
1202764	02S07W27O	VAN RYN DAIRY	DAIRY/DOM			508	8		1	230	270	444714.111	3758006.195		610	347	49	1	
1003964	02S07W27R01	VERMEER, DICK	WEST 2			185	16		1	80	176	445239.439	3758097.419		616	349	97	1	
1202768	02S07W28A	NYENHUIS, JIM	DOM			16	225	0	6	1	176	445520.157	3759404.645		642	375	-125	1	
1202772	02S07W28B	VANDER SCHAAF, EARL	DOM									445517.953	3759431.945		643	375	-103		
1202774	02S07W28D	OWNER UNKNOWN	AG#6-BRITSCHE									442471.682	3759460.887		620	361	-70		
1202775	02S07W28D	DE BOER, SIDNEY	21040-DOM									445612.413	3758494.090		634	381	-201		
1202779	02S07W28F	BRINKERHOFF, ROBERT	12420									442901.135	3758759.556		624	369	-124		
1202781	02S07W28F	HARINGA, HERMAN	DOM									443036.455	3758714.070		623	371	-156		
1202782	02S07W28F	HARINGA, HERMAN	DOMESTIC STAND									443044.205	3758711.508		623	369	-119		
1202783	02S07W28G	ECHEVERRIA, JUAN DAIRY	DOM									443184.658	3758676.455		625	366	-95		
1202784	02S07W28G	ECHEVERRIA, JUAN DAIRY	26240-IRR									443304.719	3758708.173		624	367	-103		
1202785	02S07W28G	ECHEVERRIA, JUAN DAIRY	26240-DOM1									445425.998	3758721.751		624	368	-110		
1202790	02S07W28H	CLARKE, ARTHUR	17240									445597.986	3758670.945		624	363	-74		
1202795	02S07W28M01	DURRINGTON, WILLIAM	23760-DOM	1961			10		1	134	442	442108.815	3758569.969	618	615	376	-161	1,2	
1202796	02S07W28N	STUEVE BROTHERS FARMS	IRR #2									442285.298	3758056.195		606	374	-133		
1202800	02S07W29D	BOUMA, EWOLDE	95010-DOM									440877.513	3758378.704		601	377	-124		
1202804	02S07W29J	BEHGLSAIA DAIRY	26880									441945.419	3758606.113		610	376	-160		
1202807	02S07W29K	STARK, EVERETT	74200-DOM									441190.029	3758614.984		605	374	-146		
1202808	02S07W29K	STARK, EVERETT	74200-DOM									441200.365	3758613.162		605	374	-146		
1202809	02S07W29K	STARK, EVERETT	74200-IRR									441345.785	3758646.304		605	374	-142		
1206502	02S07W29K	Al Scheenstra - Lessee	Dairy/Dom									441360.771	3758598.603		604	373	-152		
1202814	02S07W29L	WASSENAAR, PETER	80880-GRV									441840.834	3758567.307		607	375	-137		
1202819	02S07W29R01	DURRINGTON, W.F.		1958		402	12	14	1	74	390	441984.353	3758255.031	611	609	373	-139	1,2	
1202822	02S07W30H	OWNER UNKNOWN	67002-PD1									440595.392	3758574.695		598	374	-99		
1202823	02S07W30J	OWNER UNKNOWN	AG#RGAS-GOYEN									440534.925	3758627.508		597	375	-54		
1005983	02S07W30J01	OWNER UNKNOWN		1958	400	28	400	14	1	90	400	440262.523	3758643.684	596	596	370	-31	1,2	
1202824	02S07W30K	INDABURU, MARCELINE	40200-DOM-SOUTH									459914.205	3758084.945		579	324	99		
1202825	02S07W30K	LEKKERKERKER, WALT	48080-2									439886.499	3758746.949		588	337	100		
1202826	02S07W30K	LEKKERKERKER, WALT	48080-1									439909.719	3758460.825		586	333	100		

Table 2
Chino II Monitoring Wells

CBWM ID	State Well No.	Owner	Local Name	Completion Year	Borehole Depth	Borehole Diameter	Casing Depth	Minimum Casing Diameter	Maximum Casing Diameter	Perforated Interval			Well Location		Ground Surface Elevation	Layer 1 Top Elevation	Layer 1 Bottom Elevation	Layer 2 Bottom Elevation	Layers Screened
										Interval No.	From	To	UTM X [m]	UTM Y [m]					
											[ft bps]		[ftams]						
300003	02507W02B	MINABERRY ARNAUD	DOM									446118.488	3755999.723		577	376	-500		
300008	02506W21K	Movier, Jean	7530-DOM									446133.081	3759839.120		659	380	135		
300028	02506W18P	GORZEMAN, RICK	1-DAIRY									449065.817	3761113.623		099	565	302		
300030	02507W25Q	HOOGENDAM DAIRY	DOM									448001.033	3757823.857		627	439	-500		
300037	02507W25R	BORGES JR., MANUEL & SON DAIRY	9990-DOM									448189.892	3758121.883		632	442	-500		
300041	02506W29N	TERMAATEN, CASE	25958-1									450571.458	3758107.813		613	513	-500		
300044	02507W34C	ANGELINE ROUKEMA	DOM-0.00975									444170.439	3757240.357	603.8505	602	348	-3		
300045	02507W36D	WOLL, DN	93030									447227.708	3757506.380		610	413	-500		
300046	02507W33Q	SIMAS, SR., JOE	DAIRY-2E7									446134.845	3759467.669		652	375	148		
300048	02506W08K	SLEGERS, JAKE	71820-DOM									450958.453	3763297.769		762	393	291		
300052	02506W29P02	CRAMER, W R RANCH	19060-2	1954			211	14		1	25	40	450916.380	3758124.585	611	613	509	-500	1,2
300054	02507W36L	VANDER DUSSEN, RENE	84920-DD									446874.455	3756720.195		608	412	-500		
300057	02507W36P	VANDER MEER, DICK	85760	1969	310	12.25	220		8.625	1	120	140	446049.937	3758051.185		617	341	229	1
300070	02507W26M	MERSMA, HARRY										445625.504	3758139.767		620	350	155		
300072	02506W18M	HETTINGA, WILBERT	DOM									448755.486	3761501.588		711	405	271		
300086	02507W02C	KONING, J.H. ESTATE										445839.974	3755865.505		581	356	-500		
300095	02507W02M	OOSTER FAMILY TRUST	1									445203.174	3755199.187		583	326	300		
300096	02507W03H	OOSTER, AMP, JOSEPH	2									445149.986	3755492.383		578	316	300		
300101	02506W30M	TE VELDE, BERNARD	95007-DOM									448990.142	3758548.945		645	458	-500		
300102	02506W29P	TERMAATEN, CASE	95058-2	1955	102		102		8	1	35	104	450539.068	3758120.112		613	513	-500	1
300110	02507W34C	WESTSTEYN, PETE	DOM									443870.942	3757721.963	603.9242	601	352	-22	1	
300111	02507W36B	YELLIS DAIRY	93600-DOM									446412.408	3759326.544		655	371	180		
300112	02507W24A	HETTINGA, IDA	IRR									448138.236	3760911.320		698	404	257		
300113	02507W24A	HETTINGA, IDA	DOM									448301.634	3760911.024		695	408	274		
300115	02507W34J	CARDOZA TRUST/INVESTMENT	B 9									445221.624	3756873.407	583.9987	585	311	223	1	
300118	02506W17G	HOEKSTRA, EDWARD	DOM									451026.474	3761859.721		720	397	329		
300149	02506W30C	PLANTENGA, GEORGE	DOM									449314.455	3758565.695		640	467	-500		
300150	02506W30C	PLANTENGA, GEORGE	IRR									449058.392	3759133.758		662	415	-500		
300163	02507W24G	COLLINSWORTH, SHELBY	RIV-IRR-40AC									447483.349	3760151.594		675	381	241		
300165	02506W18I	MIRA LOMA THOROUGHBRED FARM	DOM-EAST									449655.486	3761320.570		704	380	307		
300172	02506W19E01	NORCO, CITY OF	9	1978	320	28	320	18		1	180	300	448565.955	3760389.570		682	334	324	1
300173	02506W19E02	NORCO, CITY OF	10	1973	350		320		20	1	120	300	448827.423	3760390.695	682	682	354	340	1
300174	02506W18F	MOCHO AND PLAA, INC.	IRR									449185.818	3761858.669		718	403	261		
300178	02506W18A	Bos, John	95044-DAIRY									449980.132	3762419.421		734	405	259		
300183	02507W27Q	VAN RYIN DAIRY	DAIRY/DOM	1977	308	12.25	308		8	1	230	270	442714.111	3758006.195		610	347	49	1
300194	02507W36A	EXCELSIOR FARMS										448297.824	3757607.272		625	455	-500		
300196	02507W27	CORONA DAIRY RANCH	47320-NEW									445226.454	3758697.417		628	360	74		
300197	02506W19H	SWAN LAKE MOBILE HOME PARK	4									449332.923	3760172.633		679	370	360		
300199	02506W19E03	NORCO, CITY OF	11	1986	350	28	320	20	30	1	180	320	448699.142	3760390.508		682	347	335	1
300203	02506W19M03	SWAN LAKE MOBILE HOME PARK	2A	1988	360	22	340		12	1	220	350	448811.392	3759775.758		671	378	-500	1
300211	02506W18P	VERNOLA, PAT	DOMESTIC	1954	151		151		8.625	1	120	140	449743.433	3761222.685		701	378	313	1
300214	02507W23J	SCHAKEL, SR. FRED	FRED SHAKEL-75P									446760.785	3760102.940		675	382	175		
300217	02506W30D	KASBERGEN DAIRY		1983	300	8	275		8.625	1		275	448586.631	3759263.310		658	408	-500	1,2
300218	02506W30D	KASBERGEN DAIRY		1983	300	8	275		8.625	1		275	448584.943	3759276.272		658	408	-500	1,2
300221	02507W24K	LEAL, BRAD	WEST DAIRY									447922.678	3760144.852		675	379	295		
300227	02506W18K	MIRA LOMA THOROUGHBRED FARM	DOM-WEST									449497.173	3761631.883		716	390	283		
300236	02507W26N	Tillem, Harold	CAPPED									445456.973	3758148.657		619	350	122		
300237	02507W25L	Honda, George & Steve										447272.845	3758582.607		635	360	340		
300242	02507W34B	Beetsma, Ike	CALVES									444565.506	3757751.629		603	344	43		
300247	02506W23K	Movier, Jean										446131.233	3759847.595		659	380	135		
300249	02506W29P	Cramer, W R	DOM-New									450672.080	3758081.457		611	512	-500		
300251		OWNER UNKNOWN										443870.952	3757737.602		603	353	-26		

Table 2
Chino II Monitoring Wells

CBWM ID	State Well No.	Owner	Local Name	Completion Year	Borehole Depth	Borehole Diameter	Casing Depth	Minimum Casing Diameter	Maximum Casing Diameter	Perforated Interval			Well Location		Ground Surface Elevation	Layer 1 Top Elevation	Layer 1 Bottom Elevation	Layer 2 Bottom Elevation	Layers Screened
										Interval No.	From	To	UTM X [m]	UTM Y [m]					
											[ft bps]		[ft amsl]						
600024	02S07W14K	MARTIN, TONY	DOM										446199.805	3761747.315		714	414	65	
600047	02S07W23A	BAS VAN DAM & SON DAIRY	81400-IRR										446666.243	3760985.490		698	401	127	
600054	02S07W14J	HAVEN TWO DAIRY											446858.126	3761543.557		713	411	121	
600064	02S07W23B02	SCHONEVELD, JOHN	DAIRY-1000C	1955				16		1	96	285	446154.182	3760990.472	690	685	402	88	1
600070	02S07W12E	KOOLHAAS, KEN	44760-DOG1										446033.720	3760538.044		689	390	171	
600078	02S07W14K	SLEGGERS, JANET	95046-DOG1										446357.994	3761751.808		717	415	74	
600080	02S07W22H	TEE VEE DAIRY	DAIRY-1500C										445222.580	3760481.508		663	394	34	
600130	02S07W14M	DE JONG, JACK	44920-DOG1										445509.481	3761727.538		706	415	12	
600151	02S07W14M	DE JONG, JACK	IRR-DEJONG										445602.830	3761529.570		698	411	29	
600154	02S07W22B	LA BRUCHERIE, RONALD V.	46250-DOG1										445997.245	3761054.712		686	405	76	
600169	02S07W24D	KROES, JANE	45400-DOG1										446946.752	3760810.971		701	395	161	
600196	02S07W22M	SO CAL AGRICULTURAL LAND FND.	95060-DOG1										445786.820	3760219.020		663	386	-109	
600260	02S07W13Q	WEST INVESTORS	91240-DOG1										447947.330	3761027.612		703	404	233	
600268	02S07W13J	VANDERHAM, CORNELIUS	DY1-40P										448441.814	3762323.982		742	419	193	
600269	02S07W23J	SCHAKEL, SR., FRED	Dom-9-00920										446849.461	3760333.736	675.7056	680	387	175	
600282	02S07W14E02	JONGSMA, JOHN	42140				328	12			140	308	445689.768	3761878.222	717	708	416	19	1,2
600295	02S07W22J	GOLDEN WEST DAIRIES	DOG1										445197.648	3760044.496		634	385	37	
600302	02S07W23H	SCHAKEL, SR., FRED	DAIRY-550C										446844.967	3760461.657		683	389	167	
600305	02S07W28H	CLARKE, ARTHUR	17240										445597.986	3758670.945		624	363	-74	
600335	01S07W36M	VANDER DUSSEN, SYBRAND	84880-IRR										447095.562	3761778.626		718	414	131	
600337	02S07W31A	VERHOVEN, PETE	66760-DOG1										447467.131	3761730.076		722	416	159	
600372	02S08W26D	BOSSIA, GERIT	10520-DOG1										446757.083	3761760.764		720	414	104	
600397	02S07W13M01	VANDER DUSSEN, SYBRAND	600C	1953			320	14		1	202	246	447087.183	3761744.809	718	718	414	131	1
600432	02S07W23A	BAS VAN DAM & SON DAIRY	81400-DOG1										446690.030	3760942.646		698	400	132	
600441	02S07W23C	SLEGGERS, HUBERT	71800-DOG1										445827.175	3760963.633		682	402	65	
600452	02S07W22C	HOLSTEINS, G.P.	DOG1										443793.267	3761049.070		677	400	-142	
600463	02S07W22R	DYT, ANDY	standby only										445205.524	3759381.857		641	373	64	
600466	02S07W22M	SO CAL AGRICULTURAL LAND FND.	95060										443813.442	3760240.974		664	387	-103	
600472	02S07W13	DYKSTRA, PETE & JOHN	2 RENTAL HOMES										448408.837	3761771.928		724	415	224	
600486	02S07W12B02	WATER WELL SUPPLY		1952				468	12				448297.298	3763705.945	782	784	420	155	
600516	02S07W22B	FIEN, BILL											444475.224	3760965.887		675	401	-52	
600536	02S07W21H	ANGELAN GENDIAS TRUST	DOMESTIC										444979.199	3760665.919		666	397	7	
600564	02S07W26A	CARDOZA TRUST/INVESTMENT	DOMESTIC										446554.440	3759328.714		654	370	193	
600573	02S07W01	VANDERHAM, CORNELIUS	DAIRY-DOG1										448446.564	3762287.982		740	419	198	
600579	02S07W14O	HILL CO DAIRY	DAIRY/DOG1										446583.648	3761048.277	702.6731	695	402	120	
600583	02S07W22N	SO CAL AGRICULTURAL LAND FND.	DOG1										445653.536	3759595.725	649.8884	648	377	-101	
600618	02S07W10A	Babcock, Bob	Dom										445289.733	3763765.087		752	420	-52	
600635													446571.789	3760970.752		690	401	109	
600636													444521.746	3759413.483		637	372	-8	
600657													443842.017	3758582.971		623	360	-34	
600658													444088.531	3758585.377		623	358	-31	
6300056	02S07W24C91W	VAN DER LINDEN DAIRY	IRRIG 1										444374.830	3757728.570		599	345	16	
6300090	02S07W27C	MOONS, JACK	HOUSE										444060.142	3759108.508	639.4586	635	367	-45	
6300092	02S07W27F	SALVADOR, FRANK											444317.783	3757845.982		604	347	12	
6300093	02S07W27G	VANDER EYK, JR., CASE	DOM2										444417.314	3758529.284		622	357	-5	
6300145	02S07W23R	BIBBACH RANCH, INC	1										445220.464	3759383.847		641	373	64	
6300146	02S06W17D	WINCHELL, VERNE H	1										450076.080	3761971.445		727	401	283	
6300280	02S07W25B	HARADA BROTHERS	GOH										448069.251	3758982.232	657.8948	642	392	-500	
6300281	02S07W25R01	HARADA BROTHERS	10H		182	10	182			1	144	162	448151.283	3759329.107	634	656	377	-500	1
6300284	02S07W27R01	VERMEER, DICK	WEST 2	1955	185		185		16	1	80	176	445239.439	3758097.419		616	349	97	1
6300285	02S07W27R02	VERMEER, DICK	NEW 3	1978	200	15	200		8.625	1	100	200	445228.439	3758132.482		617	350	91	1
6300381	02S06W19G	CARLSBERG MGT	2										448925.611	3760173.695		679	367	357	
6300460	02S06W18F	MOCHO AND FLAA	BELGRAVE										449064.073	3761790.345		716	403	262	
6300749	02S07W24K01	ROYAL CORONA RANCH CO	2	1953			251	16		1	90	238	448187.673	3760162.758	673	677	379	323	1

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Table 2
 Chino II Monitoring Wells

CBWM ID	State Well No.	Owner	Local Name	Completion Year	Borehole Depth [ft bgs]	Borehole Diameter [inches]	Casing Depth [ft bgs]	Minimum Casing Diameter [inches]	Maximum Casing Diameter [inches]	Perforated Interval			Well Location		Ground Surface Elevation [ftmsl]	Layer 1 Top Elevation [ftmsl]	Layer 1 Bottom Elevation [ftmsl]	Layer 2 Bottom Elevation [ftmsl]	Layers Screened
										Interval No.	From	To	UTM X [m]	UTM Y [m]					
											[ft bgs]								
3300995	02506W19P01	RODRIGUES, MANUEL	I				215	14		1	90	185	449305.237	3759754.747	671	670	390	-500	1
3301025	02507W24L	SILVEIRA, JACK & COELLO J M	I POULSON										447560.720	3759426.107		656	371	309	
3301200	02507W03A02	OOSTEN, RALPH		1956	116		116	6.625					445040.521	3756141.928	575	578	306	296	
3301443	02507W24J	ROYAL CORONA RANCH CO	I										448705.392	3760057.695		675	379	334	
3301603	02507W34A	VERMEER, DICK	IR P	1969	264	12.5	264	8.625	1	240	360		445223.524	3757144.377	605.8872	591	320	189	1
3301753	02507W34J	CARDOZA FLORENCE											445198.822	3756763.839		583	307	249	
3301899	02507W25R	ISELI, KURT	NO 1	1961	182	10.625	182		1	144	162		448440.258	3758055.776		634	457	-500	1
3301980	02507W26F	RNEVELBAARD JOHN	BUENA DAIRY										446038.220	3758784.544		636	362	168	
3301981	02507W26L01	V & Y DAIRY	V & Y DAIRY										446032.267	3758377.133		626	353	186	
3302006	02507W24K02	DOLAN, MICHAEL H	BARN WELL										447086.093	3760124.498		675	381	201	
3302033	02507W26K02	VERMEER, DICK	NO 5										445454.417	3758138.900		618	349	131	
3302090	02507W27C01	MOOHS, JACK	DOM-DAIRY				170	10					443702.736	3758982.508	635	631	366	-72	
3302097	02507W27A04	WEIDMAN MAURICE											445221.392	3759061.133		635	367	71	
3302117	02506W30N02	VANDERPEER PETER AND RIEKA	DOMESTIC										448791.548	3757803.070		632	485	-500	
3302150	02506W30J02	BOS, GERRIT											450084.417	3758833.851		657	457	-500	
3302162	02507W26Q02	TEVELDE, BERNARD A	DOMESTIC						0				446129.080	3758048.758		617	341	244	
3302163	02507W26Q01	TEVELDE, BERNARD A	IRRIGATION	1971	210		210	12	1	100	207		446104.361	3758160.195		620	345	235	1
3600079	02507W23E01	OMLIN, ANTON	DOM	1956			207	8	1	150	198		445323.955	3760582.883	670	667	396	41	1
3600225	02507W22D	ALEWYN, JAKE	1240-BACKUP CORRAL										445953.705	3761031.841		675	400	-113	
3600390	02507W27N	KOOPMAN, TENA											445802.658	3758206.857	615.3223	614	356	-41	
3600421	02507W21K	PARENTE, MARY	58960-ARC										445170.784	3762480.447		723	419	-44	
3600503	02507W22K01	GOLDEN WEST DAIRIES	NED										444877.981	3760183.934		655	388	7	
3600745	02507W14E	SATRACH, JOHN											445427.642	3762185.383		715	420	-14	
3601064	02507W22B	FIEN, BILL	DOM										444481.359	3760978.834		673	401	-52	
3601111	02507W15A03	KOOPMAN, GENE	41920-DOM				300	8.625	1	140	300		445212.274	3762459.113	725	723	420	-38	1
3601206	02507W10R	JOHNSON BROTHERS EGG RANCH	41540										445225.517	37623810.445		733	420	-48	
3601410	02507W28D	DE BOER, SIDNEY	21040-DOM										443612.413	3758494.090		620	361	-70	
3601421	02507W22	VAN DEN BERG, MARVIN	81640-DOM										444635.455	3760965.008		675	402	-33	
3602468	02507W12R	SOUTHERN CALIFORNIA EDISON COMPANY											448171.205	3763067.945		766	419	153	
3602556	02507W13J02	DYKSTRA, PETE & JOHN	ELEC-DAIRY-DOM				390	16	1	130	230		448120.782	3761735.859	725	723	416	203	1
3602569	02507W24C	DE VRIES, CASE	32720-DOM										447612.290	3760939.616		698	398	209	
3602589	02507W23D	DIJHALDE, LAUREN	DAIRY-450C										445593.881	3760965.890		680	403	48	
3602608	02507W13L	DOUMA BROTHERS											447560.655	3761162.869		710	409	182	

Note: Ground Surface Elevation is from Chino Basin Watermaster database. Layer 1 top elevation is from GEOSCIENCE, 2001 digital elevation model. Some elevation difference may exist between the two values (which represents ground surface deviation).

Summary of Monitoring Well Monitoring Frequency

Monitoring Well Group Name	Total Wells	Monitored Weekly	Monitored Twice Monthly	Monitored Monthly	Monitored Infrequently
Chino I	130	13	52	52	13
Chino II	139	8	53	68	10

Table 3

Table 4
CBWM Regional Monitoring Wells

Chlorine Residue, Arsenic, Nitrate, and Sulfide
Chlorine and Chloride Residue, Nitrate, and Sulfide

CBWM ID	W E I D	State Well No.	Owner	Local Name	Completion Year	Borehole Depth (ft)	Minimum Casing Diameter (inches)	Maximum Casing Diameter (inches)	Drifted Internal Barometer (ft)	Well Location	Ground Surface Elevation (ft)	Layer 1 Bottom Elevation (ft)	Layer 2 Present?
600151	1502408	02507W106	GOZEMAR RICK	DAREY						17335	17335	412	Yes
600152	1502410	02507W107	DE GROOT, JANE	21424000						17335	17335	412	Yes
600153	1502411	02507W108	DE GROOT, JANE	21424000						17335	17335	412	Yes
600154	1502412	02507W109	DE GROOT, JANE	21424000						17335	17335	412	Yes
600155	1502413	02507W110	DE GROOT, JANE	21424000						17335	17335	412	Yes
600156	1502414	02507W111	DE GROOT, JANE	21424000						17335	17335	412	Yes
600157	1502415	02507W112	DE GROOT, JANE	21424000						17335	17335	412	Yes
600158	1502416	02507W113	DE GROOT, JANE	21424000						17335	17335	412	Yes
600159	1502417	02507W114	DE GROOT, JANE	21424000						17335	17335	412	Yes
600160	1502418	02507W115	DE GROOT, JANE	21424000						17335	17335	412	Yes
600161	1502419	02507W116	DE GROOT, JANE	21424000						17335	17335	412	Yes
600162	1502420	02507W117	DE GROOT, JANE	21424000						17335	17335	412	Yes
600163	1502421	02507W118	DE GROOT, JANE	21424000						17335	17335	412	Yes
600164	1502422	02507W119	DE GROOT, JANE	21424000						17335	17335	412	Yes
600165	1502423	02507W120	DE GROOT, JANE	21424000						17335	17335	412	Yes
600166	1502424	02507W121	DE GROOT, JANE	21424000						17335	17335	412	Yes
600167	1502425	02507W122	DE GROOT, JANE	21424000						17335	17335	412	Yes
600168	1502426	02507W123	DE GROOT, JANE	21424000						17335	17335	412	Yes
600169	1502427	02507W124	DE GROOT, JANE	21424000						17335	17335	412	Yes
600170	1502428	02507W125	DE GROOT, JANE	21424000						17335	17335	412	Yes
600171	1502429	02507W126	DE GROOT, JANE	21424000						17335	17335	412	Yes
600172	1502430	02507W127	DE GROOT, JANE	21424000						17335	17335	412	Yes
600173	1502431	02507W128	DE GROOT, JANE	21424000						17335	17335	412	Yes
600174	1502432	02507W129	DE GROOT, JANE	21424000						17335	17335	412	Yes
600175	1502433	02507W130	DE GROOT, JANE	21424000						17335	17335	412	Yes
600176	1502434	02507W131	DE GROOT, JANE	21424000						17335	17335	412	Yes
600177	1502435	02507W132	DE GROOT, JANE	21424000						17335	17335	412	Yes
600178	1502436	02507W133	DE GROOT, JANE	21424000						17335	17335	412	Yes
600179	1502437	02507W134	DE GROOT, JANE	21424000						17335	17335	412	Yes
600180	1502438	02507W135	DE GROOT, JANE	21424000						17335	17335	412	Yes
600181	1502439	02507W136	DE GROOT, JANE	21424000						17335	17335	412	Yes
600182	1502440	02507W137	DE GROOT, JANE	21424000						17335	17335	412	Yes
600183	1502441	02507W138	DE GROOT, JANE	21424000						17335	17335	412	Yes
600184	1502442	02507W139	DE GROOT, JANE	21424000						17335	17335	412	Yes
600185	1502443	02507W140	DE GROOT, JANE	21424000						17335	17335	412	Yes
600186	1502444	02507W141	DE GROOT, JANE	21424000						17335	17335	412	Yes
600187	1502445	02507W142	DE GROOT, JANE	21424000						17335	17335	412	Yes
600188	1502446	02507W143	DE GROOT, JANE	21424000						17335	17335	412	Yes
600189	1502447	02507W144	DE GROOT, JANE	21424000						17335	17335	412	Yes
600190	1502448	02507W145	DE GROOT, JANE	21424000						17335	17335	412	Yes
600191	1502449	02507W146	DE GROOT, JANE	21424000						17335	17335	412	Yes
600192	1502450	02507W147	DE GROOT, JANE	21424000						17335	17335	412	Yes
600193	1502451	02507W148	DE GROOT, JANE	21424000						17335	17335	412	Yes
600194	1502452	02507W149	DE GROOT, JANE	21424000						17335	17335	412	Yes
600195	1502453	02507W150	DE GROOT, JANE	21424000						17335	17335	412	Yes
600196	1502454	02507W151	DE GROOT, JANE	21424000						17335	17335	412	Yes
600197	1502455	02507W152	DE GROOT, JANE	21424000						17335	17335	412	Yes
600198	1502456	02507W153	DE GROOT, JANE	21424000						17335	17335	412	Yes
600199	1502457	02507W154	DE GROOT, JANE	21424000						17335	17335	412	Yes
600200	1502458	02507W155	DE GROOT, JANE	21424000						17335	17335	412	Yes
600201	1502459	02507W156	DE GROOT, JANE	21424000						17335	17335	412	Yes
600202	1502460	02507W157	DE GROOT, JANE	21424000						17335	17335	412	Yes
600203	1502461	02507W158	DE GROOT, JANE	21424000						17335	17335	412	Yes
600204	1502462	02507W159	DE GROOT, JANE	21424000						17335	17335	412	Yes
600205	1502463	02507W160	DE GROOT, JANE	21424000						17335	17335	412	Yes
600206	1502464	02507W161	DE GROOT, JANE	21424000						17335	17335	412	Yes
600207	1502465	02507W162	DE GROOT, JANE	21424000						17335	17335	412	Yes
600208	1502466	02507W163	DE GROOT, JANE	21424000						17335	17335	412	Yes
600209	1502467	02507W164	DE GROOT, JANE	21424000						17335	17335	412	Yes
600210	1502468	02507W165	DE GROOT, JANE	21424000						17335	17335	412	Yes
600211	1502469	02507W166	DE GROOT, JANE	21424000						17335	17335	412	Yes
600212	1502470	02507W167	DE GROOT, JANE	21424000						17335	17335	412	Yes
600213	1502471	02507W168	DE GROOT, JANE	21424000						17335	17335	412	Yes
600214	1502472	02507W169	DE GROOT, JANE	21424000						17335	17335	412	Yes
600215	1502473	02507W170	DE GROOT, JANE	21424000						17335	17335	412	Yes
600216	1502474	02507W171	DE GROOT, JANE	21424000						17335	17335	412	Yes
600217	1502475	02507W172	DE GROOT, JANE	21424000						17335	17335	412	Yes
600218	1502476	02507W173	DE GROOT, JANE	21424000						17335	17335	412	Yes
600219	1502477	02507W174	DE GROOT, JANE	21424000						17335	17335	412	Yes
600220	1502478	02507W175	DE GROOT, JANE	21424000						17335	17335	412	Yes
600221	1502479	02507W176	DE GROOT, JANE	21424000						17335	17335	412	Yes
600222	1502480	02507W177	DE GROOT, JANE	21424000						17335	17335	412	Yes
600223	1502481	02507W178	DE GROOT, JANE	21424000						17335	17335	412	Yes
600224	1502482	02507W179	DE GROOT, JANE	21424000						17335	17335	412	Yes
600225	1502483	02507W180	DE GROOT, JANE	21424000						17335	17335	412	Yes
600226	1502484	02507W181	DE GROOT, JANE	21424000						17335	17335	412	Yes
600227	1502485	02507W182	DE GROOT, JANE	21424000						17335	17335	412	Yes
600228	1502486	02507W183	DE GROOT, JANE	21424000						17335	17335	412	Yes
600229	1502487	02507W184	DE GROOT, JANE	21424000						17335	17335	412	Yes
600230	1502488	02507W185	DE GROOT, JANE	21424000						17335	17335	412	Yes
600231	1502489	02507W186	DE GROOT, JANE	21424000						17335	17335	412	Yes
600232	1502490	02507W187	DE GROOT, JANE	21424000						17335	17335	412	Yes
600233	1502491	02507W188	DE GROOT, JANE	21424000						17335	17335	412	Yes
600234	1502492	02507W189	DE GROOT, JANE	21424000						17335	17335	412	Yes
600235	1502493	02507W190	DE GROOT, JANE	21424000						17335	17335	412	Yes
600236	1502494	02507W191	DE GROOT, JANE	21424000						17335	17335	412	Yes
600237	1502495	02507W192	DE GROOT, JANE	21424000						17335	17335	412	Yes
600238	1502496	02507W193	DE GROOT, JANE	21424000						17335	17335	412	Yes
600239	1502497	02507W194	DE GROOT, JANE	21424000</									

Table 4
CBWM Regional Monitoring Wells

Chris Deane President, Atkinson-Nirx Consulting
Chris and Cherie H. Deane, Project - Monitoring and Mitigation Plan

CBWM ID	Wc ID	State Well No.	Owner	Local Name	Completion Year	Borehole Depth in feet	Casing Depth in feet	Minimum Casing Diameter Inches	Maximum Casing Diameter Inches	Perforated Interval in feet	Well Location UTM X UTM Y	Ground Surface Elevation (ft amsl)	Layer 1 Bottom Elevation (ft amsl)	Layer 2 Permits (ft amsl)
3601241	1202501	02501W20	STATE OF CALIFORNIA, CIV	4166-1							41153	376997	318	316
3601242	1202502	02501W21	STATE OF CALIFORNIA, CIV	4166-2							41153	376997	316	316
3601243	1202503	02501W22	STATE OF CALIFORNIA, CIV	4166-3							41153	376997	316	316
3601244	1202504	02501W23	STATE OF CALIFORNIA, CIV	4166-4							41153	376997	316	316
3601245	1202505	02501W24	STATE OF CALIFORNIA, CIV	4166-5							41153	376997	316	316
3601246	1202506	02501W25	STATE OF CALIFORNIA, CIV	4166-6							41153	376997	316	316
3601247	1202507	02501W26	STATE OF CALIFORNIA, CIV	4166-7							41153	376997	316	316
3601248	1202508	02501W27	STATE OF CALIFORNIA, CIV	4166-8							41153	376997	316	316
3601249	1202509	02501W28	STATE OF CALIFORNIA, CIV	4166-9							41153	376997	316	316
3601250	1202510	02501W29	STATE OF CALIFORNIA, CIV	4166-10							41153	376997	316	316
3601251	1202511	02501W30	STATE OF CALIFORNIA, CIV	4166-11							41153	376997	316	316
3601252	1202512	02501W31	STATE OF CALIFORNIA, CIV	4166-12							41153	376997	316	316
3601253	1202513	02501W32	STATE OF CALIFORNIA, CIV	4166-13							41153	376997	316	316
3601254	1202514	02501W33	STATE OF CALIFORNIA, CIV	4166-14							41153	376997	316	316
3601255	1202515	02501W34	STATE OF CALIFORNIA, CIV	4166-15							41153	376997	316	316
3601256	1202516	02501W35	STATE OF CALIFORNIA, CIV	4166-16							41153	376997	316	316
3601257	1202517	02501W36	STATE OF CALIFORNIA, CIV	4166-17							41153	376997	316	316
3601258	1202518	02501W37	STATE OF CALIFORNIA, CIV	4166-18							41153	376997	316	316
3601259	1202519	02501W38	STATE OF CALIFORNIA, CIV	4166-19							41153	376997	316	316
3601260	1202520	02501W39	STATE OF CALIFORNIA, CIV	4166-20							41153	376997	316	316
3601261	1202521	02501W40	STATE OF CALIFORNIA, CIV	4166-21							41153	376997	316	316
3601262	1202522	02501W41	STATE OF CALIFORNIA, CIV	4166-22							41153	376997	316	316
3601263	1202523	02501W42	STATE OF CALIFORNIA, CIV	4166-23							41153	376997	316	316
3601264	1202524	02501W43	STATE OF CALIFORNIA, CIV	4166-24							41153	376997	316	316
3601265	1202525	02501W44	STATE OF CALIFORNIA, CIV	4166-25							41153	376997	316	316
3601266	1202526	02501W45	STATE OF CALIFORNIA, CIV	4166-26							41153	376997	316	316
3601267	1202527	02501W46	STATE OF CALIFORNIA, CIV	4166-27							41153	376997	316	316
3601268	1202528	02501W47	STATE OF CALIFORNIA, CIV	4166-28							41153	376997	316	316
3601269	1202529	02501W48	STATE OF CALIFORNIA, CIV	4166-29							41153	376997	316	316
3601270	1202530	02501W49	STATE OF CALIFORNIA, CIV	4166-30							41153	376997	316	316
3601271	1202531	02501W50	STATE OF CALIFORNIA, CIV	4166-31							41153	376997	316	316
3601272	1202532	02501W51	STATE OF CALIFORNIA, CIV	4166-32							41153	376997	316	316
3601273	1202533	02501W52	STATE OF CALIFORNIA, CIV	4166-33							41153	376997	316	316
3601274	1202534	02501W53	STATE OF CALIFORNIA, CIV	4166-34							41153	376997	316	316
3601275	1202535	02501W54	STATE OF CALIFORNIA, CIV	4166-35							41153	376997	316	316
3601276	1202536	02501W55	STATE OF CALIFORNIA, CIV	4166-36							41153	376997	316	316
3601277	1202537	02501W56	STATE OF CALIFORNIA, CIV	4166-37							41153	376997	316	316
3601278	1202538	02501W57	STATE OF CALIFORNIA, CIV	4166-38							41153	376997	316	316
3601279	1202539	02501W58	STATE OF CALIFORNIA, CIV	4166-39							41153	376997	316	316
3601280	1202540	02501W59	STATE OF CALIFORNIA, CIV	4166-40							41153	376997	316	316
3601281	1202541	02501W60	STATE OF CALIFORNIA, CIV	4166-41							41153	376997	316	316
3601282	1202542	02501W61	STATE OF CALIFORNIA, CIV	4166-42							41153	376997	316	316
3601283	1202543	02501W62	STATE OF CALIFORNIA, CIV	4166-43							41153	376997	316	316
3601284	1202544	02501W63	STATE OF CALIFORNIA, CIV	4166-44							41153	376997	316	316
3601285	1202545	02501W64	STATE OF CALIFORNIA, CIV	4166-45							41153	376997	316	316
3601286	1202546	02501W65	STATE OF CALIFORNIA, CIV	4166-46							41153	376997	316	316
3601287	1202547	02501W66	STATE OF CALIFORNIA, CIV	4166-47							41153	376997	316	316
3601288	1202548	02501W67	STATE OF CALIFORNIA, CIV	4166-48							41153	376997	316	316
3601289	1202549	02501W68	STATE OF CALIFORNIA, CIV	4166-49							41153	376997	316	316
3601290	1202550	02501W69	STATE OF CALIFORNIA, CIV	4166-50							41153	376997	316	316
3601291	1202551	02501W70	STATE OF CALIFORNIA, CIV	4166-51							41153	376997	316	316
3601292	1202552	02501W71	STATE OF CALIFORNIA, CIV	4166-52							41153	376997	316	316
3601293	1202553	02501W72	STATE OF CALIFORNIA, CIV	4166-53							41153	376997	316	316
3601294	1202554	02501W73	STATE OF CALIFORNIA, CIV	4166-54							41153	376997	316	316
3601295	1202555	02501W74	STATE OF CALIFORNIA, CIV	4166-55							41153	376997	316	316
3601296	1202556	02501W75	STATE OF CALIFORNIA, CIV	4166-56							41153	376997	316	316
3601297	1202557	02501W76	STATE OF CALIFORNIA, CIV	4166-57							41153	376997	316	316
3601298	1202558	02501W77	STATE OF CALIFORNIA, CIV	4166-58							41153	376997	316	316
3601299	1202559	02501W78	STATE OF CALIFORNIA, CIV	4166-59							41153	376997	316	316
3601300	1202560	02501W79	STATE OF CALIFORNIA, CIV	4166-60							41153	376997	316	316
3601301	1202561	02501W80	STATE OF CALIFORNIA, CIV	4166-61							41153	376997	316	316
3601302	1202562	02501W81	STATE OF CALIFORNIA, CIV	4166-62							41153	376997	316	316
3601303	1202563	02501W82	STATE OF CALIFORNIA, CIV	4166-63							41153	376997	316	316
3601304	1202564	02501W83	STATE OF CALIFORNIA, CIV	4166-64							41153	376997	316	316
3601305	1202565	02501W84	STATE OF CALIFORNIA, CIV	4166-65							41153	376997	316	316
3601306	1202566	02501W85	STATE OF CALIFORNIA, CIV	4166-66							41153	376997	316	316
3601307	1202567	02501W86	STATE OF CALIFORNIA, CIV	4166-67							41153	376997	316	316
3601308	1202568	02501W87	STATE OF CALIFORNIA, CIV	4166-68							41153	376997	316	316
3601309	1202569	02501W88	STATE OF CALIFORNIA, CIV	4166-69							41153	376997	316	316
3601310	1202570	02501W89	STATE OF CALIFORNIA, CIV	4166-70							41153	376997	316	316
3601311	1202571	02501W90	STATE OF CALIFORNIA, CIV	4166-71							41153	376997	316	316
3601312	1202572	02501W91	STATE OF CALIFORNIA, CIV	4166-72							41153	376997	316	316
3601313	1202573	02501W92	STATE OF CALIFORNIA, CIV	4166-73							41153	376997	316	316
3601314	1202574	02501W93	STATE OF CALIFORNIA, CIV	4166-74							41153	376997	316	316
3601315	1202575	02501W94	STATE OF CALIFORNIA, CIV	4166-75							41153	376997	316	316
3601316	1202576	02501W95	STATE OF CALIFORNIA, CIV	4166-76							41153	376997	316	316
3601317	1202577	02501W96	STATE OF CALIFORNIA, CIV	4166-77							41153	376997	316	316
3601318	1202578	02501W97	STATE OF CALIFORNIA, CIV	4166-78							41153	376997	316	316
3601319	1202579	02501W98	STATE OF CALIFORNIA, CIV	4166-79							41153	376997	316	316
3601320	1202580	02501W99	STATE OF CALIFORNIA, CIV	4166-80							41153	376997	316	316
3601321	1202581	02501W00	STATE OF CALIFORNIA, CIV	4166-81							41153	376997	316	316

Summary of Monitoring Well Monitoring Frequency¹

Monitoring Well Group Name	Total Wells	Monitored Weekly	Monitored Twice Monthly	Monitored Monthly	Semi-Annual or Less
Chino I	160	16	64	64	16
Chino II	120	7	46	59	8
CBWM Regional	240	1	1	1	237
Totals ²	520	24	111	124	261

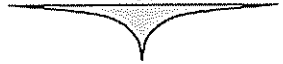
Notes:

- ¹ The number of monitoring wells in which ground water levels are measured at the various frequencies are approximate and may vary from monitoring round to monitoring round.
- ² There are approximately 30 wells that are included in both the Chino I and Chino II monitoring programs. Thus the total number of wells monitored is approximately 490.

Table 5

APPENDIX A
Claim for Damages Form

GEOSCIENCE Support Services, Inc.



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HAS
INTENTIONALLY
BEEN LEFT
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FOR PAGINATION

FILE WITH:
SECRETARY OF CHINO BASIN
DESALTER AUTHORITY
11201 Harrel Street
Mira Loma, CA 91752

CLAIM FOR DAMAGES TO PERSON OR PROPERTY

RESERVE FOR FILING STAMP

CLAIM NO. _____

INSTRUCTIONS

1. Claims for death, injury to person or to personal property must be filed not later than six months after the occurrence. (Gov. Code Sec. 911.2.)
2. Claims for damages to real property must be filed not later than 1 year after the occurrence. (Gov. Code Sec. 911.2.)
3. Read entire claim form before filing.
4. See page 2 for diagram upon which to locate place of injury or damage.
5. This claim form must be signed on page 2 at bottom.
6. Attach separate sheets, if necessary, to give full details. SIGN EACH SHEET.

TO: CHINO BASIN DESALTER AUTHORITY

Date of Birth of Claimant

Name of Claimant

Occupation of Claimant

Home Address of Claimant

City and State

Home Telephone Number

Business Address of Claimant

City and State

Business Telephone Number

Give address and telephone number to which you desire notices or communications to be sent regarding this claim:

Claimant's Social Security No.

When did DAMAGE or INJURY occur?

Date _____ Time _____
If claim is for Equitable Indemnity, give date
claimant served with the complaint:
Date _____

Names of any Chino Basin Desalter Authority employees involved in INJURY or DAMAGE

Where did DAMAGE or INJURY occur? Describe fully, and locate on diagram on page 2 of this form. Where appropriate, give street names and address and measurements from landmarks:

Describe in detail how the DAMAGE or INJURY occurred:

Why do you claim the Chino Basin Desalter Authority is responsible?

Describe in detail each INJURY or DAMAGE:

SEE PAGE 2

THIS CLAIM MUST BE SIGNED ON PAGE 2

The amount claimed, as of the date of presentation of this claim, is computed as follows:

Damages incurred to date (exact):		Estimated prospective damages as far as known:	
Damage to property	\$ _____	Future expenses for medical and hospital care	\$ _____
Expenses for medical and hospital care	\$ _____	Future loss of earnings	\$ _____
Loss of earnings	\$ _____	Other prospective special damages	\$ _____
Special damages for	\$ _____	Prospective general damages	\$ _____
General damages	\$ _____	Total estimate prospective damages	\$ _____
Total damages incurred to date	\$ _____		
Total amount claimed as of date of presentation of this claim: \$ _____			

Was damage and/or injury investigated by police? _____ If so, what city? _____
 Were paramedics or ambulance called? _____ If so, name city or ambulance _____
 If injured, state date, time, name and address of doctor of your first visit _____

WITNESSES to DAMAGE or INJURY: List all persons and addresses of persons known to have information:

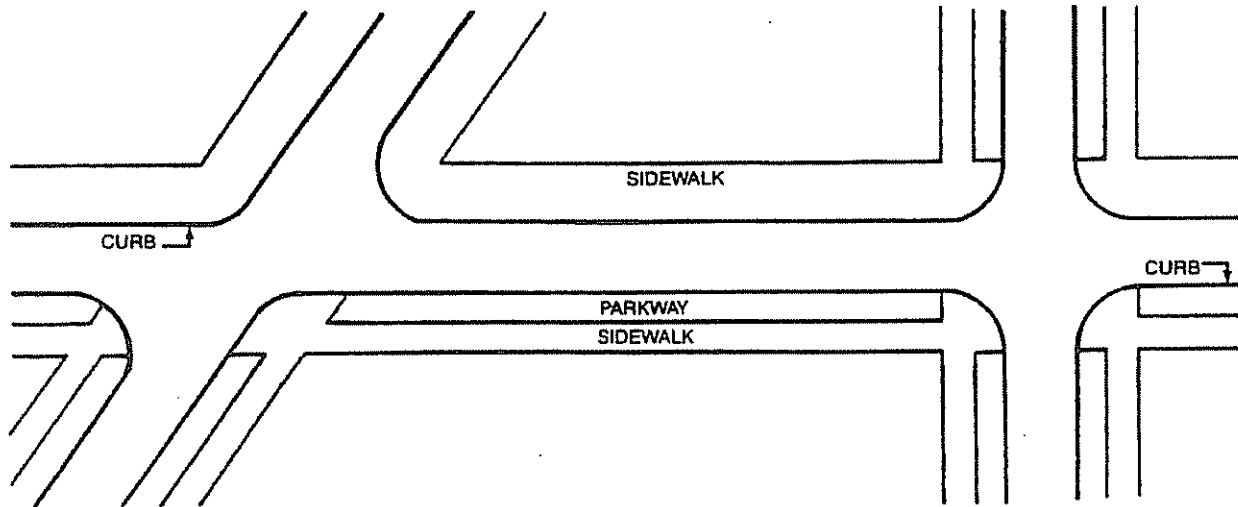
Name _____	Address _____	Phone _____
Name _____	Address _____	Phone _____
Name _____	Address _____	Phone _____

DOCTORS and HOSPITALS:

Hospital _____	Address _____	Date Hospitalized _____
Doctor _____	Address _____	Date of Treatment _____
Doctor _____	Address _____	Date of Treatment _____

READ CAREFULLY

For all accident claims place on following diagram names of streets, including North, East, South, and West; indicate place of accident by "X" and by showing house numbers or distances to street corners.
 If Chino Basin Desalter Authority ("CDA") Vehicle was involved, designate by letter "A" location of CDA Vehicle when you first saw it, and by "B" location of yourself or your vehicle when you first saw CDA vehicle; location of CDA vehicle at time of accident by "A-1" and location of yourself or your vehicle at the time of the accident by "B-1" and the point of impact by "X."
 NOTE: If diagrams below do not fit the situation, attach hereto a proper diagram signed by claimant.



Signature of Claimant or person filing on his behalf giving relationship to Claimant:	Typed Name:	Date:
---	-------------	-------

NOTE: CLAIMS MUST BE FILED WITH THE SECRETARY OF THE CHINO BASIN DESALTER AUTHORITY (Gov. Code Sec. 915a). Presentation of a false claim is a felony (Pen. Code Sec. 72.)

ATTACHMENT "A" TO CLAIM FOR DAMAGES

RIGHT OF ENTRY AGREEMENT AND RELEASE OF LIABILITY

This RIGHT OF ENTRY AGREEMENT AND RELEASE OF LIABILITY ("Agreement") is entered into on the _____ day of _____, 200__ by and among the CHINO BASIN DESALTER AUTHORITY, a joint powers authority ("CDA"), and _____ ("Dairy"). CDA and Dairy are collectively referred to herein as the "Parties."

RECITALS

A. Dairy is the owner of certain real property described in the attached Claim for Damages ("Claim Form") on which it operates, among other things, certain well(s) (the "Dairy Property").

B. CDA is the owner of certain water wells located in proximity to the Dairy Property (the "CDA Wells").

C. In May, 2002, CDA began operating the CDA Wells for Desalter purposes. Dairy claims that its well(s) on the Dairy Property have suffered a total and/or partial loss of pressure or other to damage due to the operation of the CDA Wells.

D. Without admitting the truth or correctness of any allegation by the Dairy, the Parties desire to allow CDA, including its agents, consultants, contractors and assigns, to enter onto the Dairy Property for purposes of repairing the Dairy's well(s) (the "Repair Work").

AGREEMENT

In consideration of the foregoing Recitals, the mutual understandings contained in this Agreement, and other good, valuable and sufficient consideration, the Parties agree as follows:

Section 1. Right of Entry.

Dairy hereby grants to CDA and its agents and contractors the nonexclusive right to enter upon the Dairy Property to perform the Repair Work only, and expressly for no other purposes without the prior written approval of the Claimant identified in the Claim Form or the Dairy's attorney, if any, which approval shall be at their sole discretion. Dairy shall take all steps reasonably necessary to provide access to CDA to perform the Repair Work.

(a) Term of Entry. This Right of Entry Agreement shall automatically terminate and expire 90 days from the date of this Right of Entry Agreement. The term of this Right of Entry Agreement may be extended at the sole and absolute discretion of Dairy and/or its attorney. Any such extension must be in writing.

(b) No Property Rights Granted. It is expressly understood this Right of Entry Agreement does not in any way whatsoever grant or convey any rights of possession, easement or other interest in the Dairy Property to CDA.

Section 2. Additional Conditions and Representations.

CDA agrees for itself and on the behalf of its employees, agents, consultants, contractors and assigns as follows:

(a) Compliance with All Applicable Governmental Requirements. All acts and things done by CDA on the Dairy Property will be done in a careful and reasonable manner, in accordance with all applicable federal, state and local laws, and all governmental requirements.

(b) No Mechanics Liens. CDA shall not permit or suffer any mechanics', materialmen's or other liens of any kind or nature to be filed or enforced against the Dairy Property in connection with the Repair Work.

Section 3. Dairy Release.

Dairy hereby covenants not to sue, releases, waives and discharges CDA and/or CDA's officers, directors, board members, employees, and agents (all for the purposes herein referred to as "Releasees") from all liability to the Dairy, the Dairy's employees, agents, successors, assigns, personal representatives, heirs and next of kin (collectively, the "Releasers") for any and all damage, and any claims, demands, costs, contracts, liabilities, objections, actions and causes of action of every nature, whether in law or in equity, known or unknown, suspected or unsuspected arising therefrom, which Dairy ever had or now has or may in the future claim to have against CDA, of any nature, type or description that relate to, arise out of or otherwise concern the CDA Wells, the Dairy Property and/or the Repair Work, including, but not limited to, any loss, liability, damage, personal and/or real property damage, bodily injury or death the Releasers may suffer by reason of the installation, use, misuse, and/or failure of the Repair Work (collectively the "Claims"), except for any Claims caused solely by the gross negligence or willful misconduct of any Releasee. The Releasers further agree to indemnify, defend and hold harmless the Releasees, and each of them, from any Claims.

Dairy also waives and relinquishes any and all rights which it may have under the provisions of Section 1542 of the California Civil Code, which states:

"A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR."

Notwithstanding the foregoing Release, Dairy expressly reserves the right to claim future damages to Dairy's well(s) on the Dairy Property due to the operation of the CDA Wells.

Section 4. Compromise.

This Agreement is a compromise and settlement of Dairy's claims regarding the impacts of the operation of the CDA Wells on the wells on the Dairy Property and is not intended and shall not constitute or be construed as an admission of the truth or correctness of any allegation by either party.

Section 5. Attorneys' Fees.

Except as expressly set forth herein, the Parties agree to bear their own attorneys' fees and costs incurred in connection with the negotiation, preparation, approval, execution and delivery of this Agreement, and of the documents related to or referenced in this Agreement.

Section 6. Attorneys' Fees in Future Actions.

Should any lawsuit, action, or proceeding be brought to enforce, interpret, avoid, nullify, reform, rescind, seek damages for alleged breach of, declare rights arising from or related to this Agreement, or in any other way arising out of, related to or referencing this Agreement, then the prevailing party in such a proceeding shall be entitled to be reimbursed by the other party for all costs and expenses incurred as a result, whether or not ordinarily collectible, including but not limited to, reasonable attorneys' fees, expert witness fees, and costs for the services rendered to such prevailing party.

Section 7. Other Documents.

The Parties agree to execute and deliver such other documents and to take such other and further actions as may be reasonably necessary or appropriate to effectuate and further perform the terms and the purposes of this Agreement.

Section 8. Entire Agreement.

This Agreement embodies the entire understanding among the Parties and none of the Parties shall be bound by any definitions, conditions, warranties, or representations other than as expressly stated in this Agreement.

Section 9. Captions - Pronouns.

Any titles, captions, or subheadings contained in this Agreement are for convenience only and shall not be deemed part of the context of this Agreement or considered in any interpretation or construction of the Agreement. Whenever the masculine, feminine or neuter genders are used herein, as required by the context or particular circumstance, they shall include each of the other genders as appropriate. Whenever the singular or plural numbers are used, they shall be deemed to be the other as required. Wherever the present or past tense is utilized in this Agreement and the context or circumstances require another interpretation, the present shall include the past and future, the future shall include the present, and the past shall include the present.

Section 10. Consideration.

The Parties hereby expressly acknowledge and agree that each and every term and condition of this Agreement is of the essence of this Agreement, constitutes a material part of the bargain for consideration without which this Agreement would not have been executed and is a material part of the Agreement.

Section 11. Severability.

The Parties hereby expressly agree that the release, waiver, and indemnity provisions set forth in this Agreement are intended to be as broad and inclusive as permitted by the laws of the State of California and in the event that any provision or any part of any provision of this Agreement shall be void or unenforceable for any reason whatsoever, then such provision shall be stricken and of no force and effect. The remaining provisions of this Agreement, however, shall continue in full force and effect, and to the extent required, shall be modified to preserve their validity.

Section 12. Modifications.

This Agreement may only be changed or modified and any provisions hereof may only be waived by a writing signed by the party against whom enforcement of any waiver, change or modification is sought. This Agreement may be amended only in writing by mutual consent of the Parties.

Section 13. Counterparts.

This Agreement may be executed in several counterparts and all so executed shall constitute one agreement which shall be binding on all the Parties hereto notwithstanding that all of the Parties are not signatory to the original or the same counterpart.

Section 14. Representations and Warranties.

The Parties represent, warrant to, and agree with each other as follows:

Section 15. Each party has had the opportunity to obtain independent legal advice from attorneys of its choice with respect to the advisability of executing this Agreement and has either obtained such independent legal advice or exercised its sole and independent discretion in electing not to secure such independent legal advice.

Section 16. Except as is expressly stated in this Agreement, no party has made any statement or representation to any other party regarding any fact, which statement or representation is relied upon by any other party in entering into this Agreement. In connection with the execution of this Agreement or the making of the settlement provided for herein, no party to this Agreement has relied upon any statement, representation or promise of any other party or their attorney not expressly contained herein.

Section 17. This Agreement is intended to be final and binding upon the Parties and is further intended to be effective as a full and final accord and satisfaction among them regardless of any claims of fraud, misrepresentation, concealment of fact, mistake of fact or law, duress or any other circumstances whatsoever. Each party relies upon the finality of this Agreement as a material factor inducing that party's execution of this Agreement. Each party agrees that from the date of this Agreement, any and all rights and/or liabilities existing between or among the Parties hereto shall arise solely out of the terms, provisions, representations and warranties contained in this Agreement.

Section 18. This Agreement has been carefully read by each of the Parties and the contents thereof are known and understood by each of the Parties. This Agreement is signed freely by each party executing it.

The Dairy hereby further warrants and represents as follows:

Section 19. The Dairy understands and voluntarily assumes all risks relating to CDA's conduct of the Repair Work, including the risk of death or bodily injury, or damage to or loss of real and/or personal property.

Section 20. The Dairy understands and voluntarily assumes full responsibility for the use, misuse, and/or failure of the Repair Work.

Section 21. Warranty of Authority.

Each party whose signature is affixed hereto in a representative capacity represents and warrants that he or she is authorized to execute this Agreement on behalf of and to bind the entity on whose behalf his or her signature is affixed.

Section 22. Notices.

All notices shall be sent to the following address:

Section 23. To CDA:

Chino Basin Desalter Authority
11201 Harrel Street
Mira Loma, CA 91752

With copy to:

Douglas S. Brown, General Counsel
Stradling Yocca Carlson & Rauth
660 Newport Center Drive, Suite 1600
Newport Beach, California 92660

(b) To Dairy at the address set forth on the Claim Form.

Section 24. Governing Law.

This Agreement shall be construed in accordance with and be governed by the laws of the State of California.

Section 25. Any action, suit or other proceeding instituted to remedy, prevent or obtain relief from a breach of this Agreement, arising out of a breach of this Agreement, involving claims within the scope of the releases contained in this Agreement, or pertaining to a declaration of rights under this Agreement, shall be instituted and maintained only in the Superior Court of San Bernardino, California.

DATED:

CHINO BASIN DESALTER AUTHORITY

By: Tom O'Neill
Its: Operations Coordinator

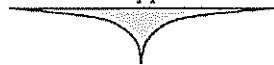
DATED:

DAIRY

By: _____
Its: _____

APPENDIX B
Private Well Inspection Form

GEOSCIENCE Support Services, Inc.



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PRIVATE WELL INSPECTION FORM

Inspector's Name
Inspection Date

Owner Information

Owner's Name
Address
Telephone Number

Well Information

Well Name	
CBWM Recordation No.	
DWR Driller's Log on File?	
GPS Longitude	
GPS Latitude	
Date Drilled	
Total Casing Depth	
Casing Type	
Casing Diameter(s)	
Perforation Type	
Perforation Intervals	

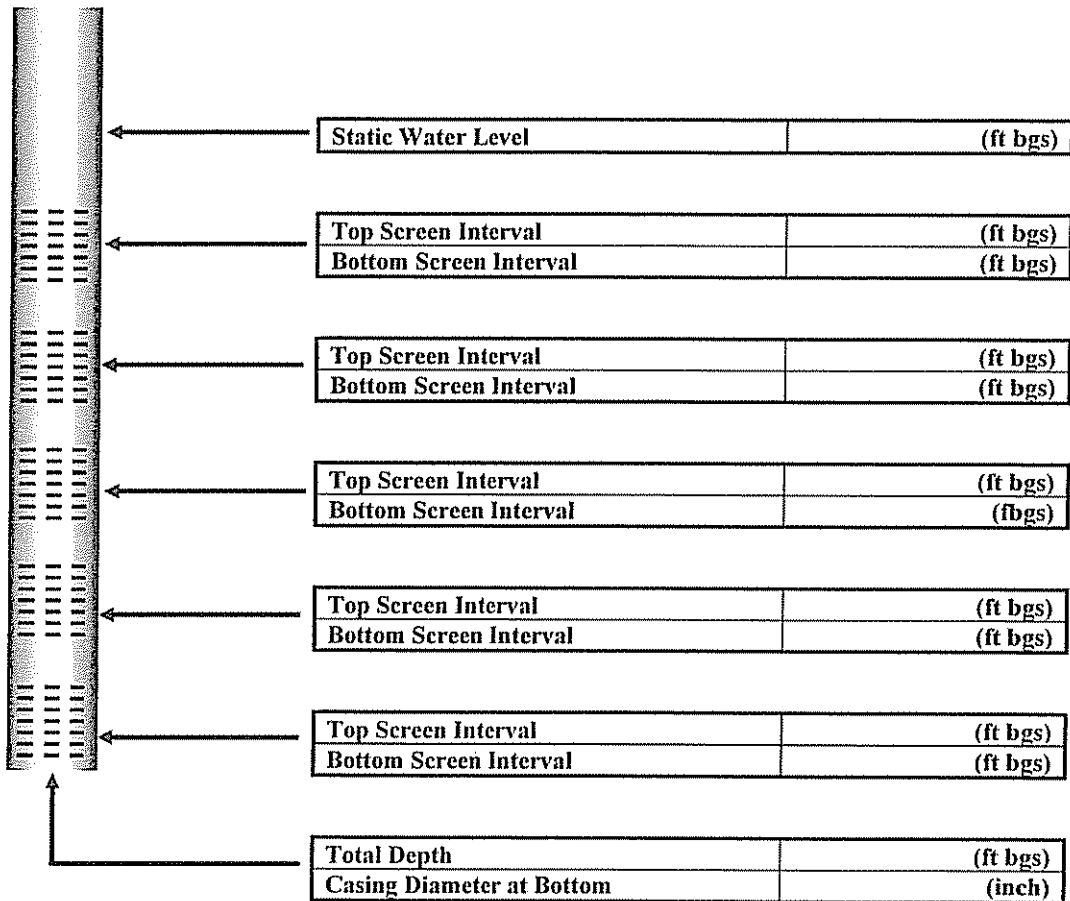
Pump Information

Pump Type	
Electrical Power (kW)	
Motor Size (HP)	
Pump Setting Depth (fbgs)	
Discharge Rate (gal/min)	
Discharge Line Diameter (ft)	

Location Map

Photo

Video Log Inspection



Note:

The purpose of this page is to document observations made from inspection of the video log. These observations include depth of screened intervals, general casing and screen condition, specific areas of corrosion and severity of corrosion, total depth, obstructions, etc.

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**CHINO BASIN WATERMASTER
CALCULATION OF MWD REFUND**

Producer	Share of Operating Safe Yield (Percent)	6499.64AF Replenishment Water 98,822.32	Cyclic & Direct Replen Water 15.20AF	Cyclic & Direct Replen Water 89,292.58	Total Refund 188,114.90
<u>NonAgricultural Pool Members</u>					
Angelica Rental Service	0.000%	\$ -	17.035	\$ 259.00	\$ 259.00
General Electric - Geomatrix	0.000%	-	18.077	274.85	274.85
<u>Appropriative Pool Members</u>					
Arrowhead Mountain Spring Water	0.000%	-	75.527	1,148.33	1,148.33
Chino, City of	7.357%	7,270.358	-	-	7,270.36
Chino Hills, City of	3.851%	3,805.648	-	-	3,805.65
Cucamonga County Water District	6.601%	6,523.261	-	-	6,523.26
Desalter Authority	0.000%	0.000	-	-	0.00
Fontana Union Water Company	11.657%	11,519.718	-	-	11,519.72
Fontana Water Company	0.002%	1.976	4,891.727	74,375.19	74,377.16
Inland Empire Utilities Agency	0.000%	0.000	3.765	57.24	57.24
Jurupa Community Services District	3.759%	3,714.731	-	-	3,714.73
Los Serranos Country Club	0.000%	0.000	-	-	0.00
Marygold Mutual Water Company	1.195%	1,180.927	-	-	1,180.93
Metropolitan Water Dist of So Calif	0.000%	0.000	-	-	0.00
Monte Vista Irrigation Company	1.234%	1,219.467	-	-	1,219.47
Monte Vista Water District	8.797%	8,693.399	-	-	8,693.40
Niagara Bottling Company, LLC	0.000%	0.000	-	-	0.00
Nicholson Trust	0.007%	6.918	-	-	6.92
Norco, City of	0.368%	363.666	-	-	363.67
Ontario, City of	20.742%	20,497.726	851.412	12,945.11	33,442.83
Pomona, City of	20.454%	20,213.117	-	-	20,213.12
Santa Ana River Water Company	2.373%	2,345.054	-	-	2,345.05
San Antonio Water Company	2.748%	2,715.637	-	-	2,715.64
San Bernardino County (Shooting Park)	0.000%	0.000	15.319	232.91	232.91
Southern California Water Company	0.750%	741.167	-	-	741.17
Upland, City of	5.202%	5,140.737	-	-	5,140.74
West End Consolidated Water Company	1.728%	1,707.650	-	-	1,707.65
West San Bernardino County Water District	1.175%	1,161.162	-	-	1,161.16
	100.000%	\$ 98,822.32	5,872.862	\$ 89,292.64	\$ 188,114.96

CHINO BASIN WATERMASTER

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

III. REPORTS/UPDATES

B. CEO/STAFF REPORT

2. MWD Refund for Water Sales
from 2002/2003 of \$188,113.38

**CHINO BASIN WATERMASTER
CALCULATION OF MWD REFUND**

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	100.000%	\$ 98,822.32	5,872.862	\$ 89,292.64	\$ 188,114.96

APR 12 2004

MWD Refund for Untreated Water Sales Revenue Contributed During Fiscal Year 2002/03

IEUA Credit: \$1,123,485

Allocation to IEUA Retail Agencies

	<u>AF Purchased</u>	<u>% of Total</u>	<u>Refund by Agency</u>
CCWD	29,176.3	39.5%	\$443,604.52
WFA	32,075.5	43.4%	\$487,684.75
Reliant Energy	268.5	0.4%	\$4,082.35
Watermaster	<u>12,372.4</u>	<u>16.7%</u>	<u>\$188,113.38</u>
Total:	73,892.7	100.0%	\$1,123,485.00

Watermaster total includes 3,883.2 AF Cyclic, and 8,489.2 AF Replenishment.

kjt
2/2/2004

CHINO BASIN WATERMASTER

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

III. REPORTS/UPDATES

C. INLAND EMPIRE UTILITIES AGENCY

1. Rialto Pipeline Shutdown – Task Force Evaluation to Improve Reliability
2. Waste Master Plan/Urban Water Management Plan Update
3. MWD DYY Project Status and Planned Replenishment Deliveries During FY 2004/2005
4. Water Resources Report
5. Water Conservation Status Report
6. Recycled Water Program
7. Chino Basin Facilities Improvement Project (Recharge)
8. State/Federal Legislation
9. Public Relations

**CHINO BASIN WATERMASTER
ADVISORY COMMITTEE
June 24, 2004**

AGENDA

INTER-AGENCY WATER MANAGERS' REP ORT

**Chino Basin Watermaster
9641 San Bernardino Rd.
Rancho Cucamonga, CA 91730**

20 – 30 Minutes

Discussion Items:

- Rialto Pipeline Shutdown – Task Force Evaluation to Improve Reliability (Attached)
- Wastewater Master Plan/Urban Water Management Plan Update
- MWD DYY Project Status and Planned Replenishment Deliveries During FY 2004/05

Written Monthly Updates:

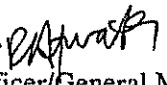
- Water Resources Report
- Water Conservation Status Report
- Recycled Water Program
- Chino Basin Facilities Improvement Project (Recharge)
- State/Federal Legislation
- Public Relations

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Date: June 23, 2004

To: The Honorable Board of Directors

From: Richard W. Atwater 
Chief Executive Officer/General Manager

Subject: Rialto Pipeline Shutdown – Task Force Evaluation of Emergency
Supply Improvements

RECOMMENDATION

This is an informational item only and no action is required by the Board of Directors.

BACKGROUND

The Rialto Pipeline shutdown highlighted the need to improve the overall system water supply reliability within the IEUA service area. I am exploring with our retail water agencies, Chino Basin Watermaster, TVMWD, and MWD the formation of a task force to evaluate opportunities to enhance the reliability of water service to the residents and customers throughout the IEUA service area.

The Rialto Pipeline shutdown did highlight that through careful communication and coordination a significant (estimated at 25 to 50 percent) conservation reduction can be achieved (see attached press release). However, interconnects between retail utilities, increased local groundwater pumping, surface reservoir (tank) storage, and having the proposed emergency interconnect to the San Gabriel Valley MWD Azusa Pipeline for the WFA and Lloyd Michael filtration plants all should be implemented. Lastly, the MWD D.Y.Y. (\$27.5 million) agreement provides substantial funding that has as one of the benefits the improved local emergency supplies.

I will be discussing with all the agencies, the possible formation of a task force to review each of these emergency reliability improvements.

PRIOR BOARD ACTION

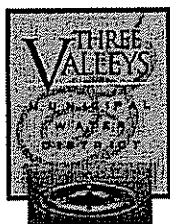
None.

IMPACT ON BUDGET

None.

RWA:jbs

G:\Board-Rec\2004\04368 Rialto Pipeline Shutdown-Task Force Evaluation of Emergency Supply Improvements



Contacts: Bob Muir, Metropolitan, (213) 217-6930; (213) 324-5213, mobile
Richard Hansen, Three Valleys MWD, (909) 621-5568
Sondra Elrod, IEUA, (909) 993-1747; (909) 730-7573, mobile

June 12, 2004

**IMPORTED WATER LINE SERVING
EASTERN LOS ANGELES, WESTERN SAN BERNARDINO COUNTIES
RETURNED TO SERVICE AHEAD OF SCHEDULE AFTER URGENT REPAIRS
Water agencies thank consumers, businesses
for remarkable water-saving efforts during outage**

LA VERNE, Calif.—With the extraordinary water-saving assistance of up to 1 million consumers in eastern Los Angeles and western San Bernardino counties, a major imported water line was returned to service late Friday night, two days ahead of schedule.

As water imported from Metropolitan Water District's repaired Rialto Feeder pipeline cascaded into Live Oak Reservoir and replenished diminished supplies, MWD board Chairman Phillip J. Pace announced residents and businesses from La Verne east to Fontana could now return to normal water usage.

"We want to pass along many sincere thanks to everyone who helped conserve water during the repair work. We couldn't have done it without you," Pace said.

"These past days have offered an extraordinary example of communities coming together. Nine local and regional water agencies worked together with cities, fire departments, parks departments and countless other agencies to coordinate efforts and ensure that there would be enough water for everyone," Pace said.

To stretch local supplies during the shutdown, residents in the cities of La Verne, Claremont, Chino, Chino Hills, Montclair, Ontario, Rancho Cucamonga, Upland and Fontana were asked to shut off outdoor sprinklers, take shorter showers, and wash their vehicles at professional car washes that use recycled water.

Richard Atwater, general manager of the Inland Empire Utilities Agency, said consumers throughout the region pitched in, cutting water use by as much as 50 percent during the five-day service interruption. Even as the weather warmed over the week, conservation efforts continued, actually allowing some water agencies to slightly increase storage levels, he said.

more

"We're grateful and continue to be impressed by the overwhelming response from residents throughout the affected cities," said Atwater, whose agency is the main water wholesaler for western San Bernardino County cities and water agencies.

Metropolitan coordinated the shutdown and repair of the 8-foot-diameter pipeline, which was put back into service just before midnight Friday, with Inland Empire Utilities, Three Valleys Municipal Water District and local water retailers. The shutdown originally had been scheduled to continue through Sunday, June 13. However, after confirming the safety of the pipeline's supplies, Metropolitan informed local water agencies that they could tap the pipeline.

Richard Hansen, Three Valleys general manager, said the water-saving efforts by local consumers enabled the most-affected communities to maintain their supplies and storage levels during the shutdown and inspection.

"Reductions in water use exceeded our most optimistic projections. Particularly through the efforts of the residents of Claremont and La Verne, we were able to maintain adequate water supplies during the shut-down," Hansen said. "Everyone who participated is to be commended for their outstanding conservation efforts."

Robert DeLoach, chief executive officer and general manager of the Cucamonga Valley Water District, said he was impressed with the level of conservation his customers were able to achieve.

"During the shutdown, our customers had a conservation rate of approximately 60 percent, which speaks volumes to the type of community we serve," DeLoach said. "This proves that when there is a situation or crisis, our community comes together to help."

The 30-mile Rialto Feeder extends from the Devil Canyon Power Plant north of San Bernardino to Metropolitan's San Dimas Power Plant, delivering up to 450,000 gallons of imported water a minute for 6 million residents. The pipeline was originally scheduled to be repaired during a shutdown later this year, but Metropolitan moved up the repairs after test results from a March inspection indicated pre-stressed concrete pipeline sections might have been weakened by broken wires within the conduit.

Metropolitan shut down and began draining portions of the high-pressure pipeline early last Monday (June 7). After excavating the main repair site along Webb Canyon north of Claremont, MWD crews cut away a suspected weakened section of pre-stressed concrete pipe.

more

As part of the repairs, Metropolitan replaced a 44-foot concrete section with welded-steel pipe. A separate 18-foot section of nearby pipe was lined with carbon fiber.

“Our crews worked around the clock to minimize any inconvenience to area residents and businesses,” said Debra Man, Metropolitan’s chief operating officer. “We’re pleased the repairs were completed so quickly and successfully.

Man said the shutdown also serves a reminder for all Southern Californians that using water wisely should be a habit. “Conservation continues to play an important part of our total water picture in Southern California. The water we save today goes into storage for the future,” she said, adding that handy conservation tips can be found at “bewaterwise.com.”

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MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

May 24, 2004

Mr. Richard Hansen, General Manager
Three Valleys Municipal Water District
1021 E. Miramar Avenue
Claremont, CA 91711

Mr. Richard Atwater, General Manager
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91710

Mr. Tony Zampielo, General Manager
Foothill Municipal Water District
4536 Hampton Road
La Canada Flintridge, CA 91012

Mr. Timothy Jochem, General Manager
Upper San Gabriel Valley Municipal Water District
11310 East Valley Boulevard
El Monte, CA 91731

Dear Messrs. Hansen, Atwater, Zampielo, and Jochem:

Assessment of Regional Water Supply Enhancement Opportunities

We have received your letter of April 27, 2004 requesting that Metropolitan consider a set of possible regional water supply enhancement opportunities involving interconnections between Metropolitan pipelines, member agency treatment facilities and the Azusa Pipeline owned and operated by the San Gabriel Valley Municipal Water District (SGVMWD). Additionally, your letter suggests possible benefits associated with extending the Azusa Pipeline to the Raymond Basin.

Metropolitan has recently initiated an update of its System Overview Study, which provides the basis for planning and scheduling capital improvements to the Metropolitan system. The first phase of the study will review Metropolitan's system and potential facility capacities and on-line dates needed to maintain reliability under high demand conditions, consistent with the resource mix under the Integrated Water Resources Plan Update (IRP Update). In response to your request, we will assess the potential benefits of your proposed water supply enhancement opportunities to the Metropolitan system as part of the first phase of our System Overview Study update. During the course of this assessment, we will consult with you to address any questions that may arise as staff considers the details of your proposals. We anticipate that the results of the phase one analysis will be presented to the Metropolitan Board by the end of 2004.

Messrs. Hansen, Atwater, Zampielo, and Jochem
Page 2
May 24, 2004

We also understand that Foothill MWD and other interests in the Raymond Basin are seeking federal funds to evaluate the feasibility of extending the SGVMWD Azusa Pipeline into the Raymond Basin as a source of untreated replenishment water. We encourage you to proceed with your efforts to undertake this important study. If invited, Metropolitan would provide input to your evaluation of the pipeline extension.

We look forward to working with you to assess the opportunities you have raised. Please do not hesitate to contact me at (213) 217-6211, or Mr. Stephen Arakawa at (213) 217-6052 to further discuss your ideas.

Very truly yours,



for Ronald R. Gastelum
Chief Executive Officer

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o:\s\c\KMK_5-04 azusa pipeline response letter.doc

cc: Mr. Darin Kasamoto
General Manager
San Gabriel Valley Municipal Water District
549 E. Sierra Madre Avenue
Azusa, CA 91702-1299

JUNE 2004 WATER RESOURCES UPDATE

Water Resources Planning Activity

Highlights

■ Chino Basin Watermaster

IEUA and Watermaster have developed a cooperative monitoring program for hydraulic control (Basin Plan Maximum Benefit requirement), recharge of imported, stormwater, and recycled water at all recharge sites, plus overall basin monitoring network to characterize water quality conditions.

■ Metropolitan Water District of Southern California (MWD)

During May 2004, the IEUA service area imported 5,075 acre-feet of water. (see page 4 for a summary of IEUA service area total water demand and page 5 for the calendar y-t-d Tier I imported water purchases). MWD continues to see record imported water sales over its service area. Overall deliveries are on a 12 month sales track of 2.4 million acre-feet. On June 7th, MWD the Rialto Feeder pipeline was shutdown until June 11th to make emergency repairs. This affected retail water agencies in IEUA and Three Valleys MWD (only Claremont and La Verne) service areas. Repairs to the pipeline were completed on Friday June 11 and the pipeline was placed back into service on Saturday, June 12. Customers responded well to the need to conserve during the shutdown. A task force to evaluate improvements to the Rialto Pipeline to improve reliability and implement alternative back up supplies will be formed by MWD/IEUA/TVMWD with the retail agencies.

A meeting with all the participants in the MWD Dry Year Yield (DYY) Chino Basin conjunctives use program will be scheduled in late June to review project status and funding activity.

■ CALFED: Updates

At its June 8 meeting, the CALFED Bay Delta Authority reviewed program plans for the upcoming year. The proposed MOU on the Delta Package was referred back to staff for additional consideration. As part of the budget discussions, the Administration has proposed that CALFED be required to develop a ten year finance plan that includes the establishment of a user fee, consistent with the beneficiary pays principle, that will take effect in 2005-06 fiscal year.

■ Water Conservation Activity Summary

The City of Chino Hills and the Cucamonga Valley Water District (CVWD) received grants of \$6,000 and \$5,000, respectively, from the Metropolitan Water District's Community Partnership Program (CPP). The grant to Chino Hills will be used to create a groundwater model that will be used in conjunction with their current school education efforts. CVWD will use the funding for a new annual event called the "Kid's Environmental Festival". On June 8th, IEUA held a workshop for teachers as the kickoff of the "Garden In Every School" Project. The goal of the program is to install a native landscape garden in one school in each of the seven retail agency service areas. Applications to install the gardens are due on June 15th. A number of retail agencies and IEUA completed their Ultra Low Flush (ULF) toilet exchange programs during April and May. In all, about 1,700 ULF toilets are being installed. These programs, combined with the ULF toilet rebate program, and the multi-family program, should come very close to completing the annual goal of 8,000 ULF toilets installed. In June, the Regional Water Conservation Workgroup met to discuss the Landscape Water Audit program procedures. Joe Kissinger (Certified Landscape Irrigation Specialist) was present to discuss the Landscape Audit program scheduled to begin in June. Also present was Emily Chase to give an update on the "Garden in Every School" project. The Workgroup members present received the information and took no actions. Next meeting is scheduled for July 13 at the City of Chino.

■ State Water Plan (Bulletin 160-03)

The next advisory meeting will be held June 24th in Sacramento. The Department of Water Resources expects to release the draft plan for public review on August 27th.

■ Water Resources Coordination Calendar

A comprehensive Agency-wide water resources calendar is being maintained on page 6 of this report.

Water Conservation Budget/Actual (FY 2003-04)

<u>Revenues (est)</u>	<u>Annual Budget</u>	<u>Est. Actual to date (July-May)</u>
Imported \$3/AF Surcharge	\$195,000	\$183,558
Retail Meter Revenue	\$ 60,000	\$ 55,000
Property Tax	\$ 75,000	\$ 68,750
Regional Sewage Fund Transfer	\$ 50,000	\$ 45,833
FY 02/03 Carry Over	\$ 22,300	\$ 22,300
Total	\$402,300	\$375,441
Other Agency Funding		
MWD (est CCP Credits and Rebates)	\$ 892,000	\$ 375,820
DWR Grants—X-Ray Processors	\$ 330,000	\$ 20,700
Sub Total	\$1,222,000	\$ 396,520
Total Budget	\$1,590,000	\$771,961

*Total budget does not include a grant from DWR for the CIM project in the amount of \$2,060,000

Expenditures

<u>Individual Projects/Programs</u>	<u>Budget</u>	<u>Actual (July-May)</u>	<u>Source of Funding</u>
HECWs	\$282,500	\$189,144	MWD, IEUA
ULFTs	\$771,800	\$399,948	MWD, IEUA
X-Ray Film Processor	\$330,000	\$ 48,728	DWR, IEUA, MWD
Landscape Programs	\$50,000	\$ 3,687	IEUA
Pool Cover Rebate	\$12,000	\$ 9,146	IEUA
CUWCC Dues	\$12,000	\$ 0	IEUA, MWD
Educational Programs	\$40,000	\$ 34,159	IEUA
Inter-Agency Grants	\$16,000	\$ 6,000	IEUA
Water Brooms	\$57,000	\$ 52,311	IEUA, MWD
Pool Cover Survey	\$ 8,500	\$ 8,587	MWD
Agency Support	\$ 2,300	\$ 2,300	IEUA
Other	\$ 2,900	\$ 1,506	IEUA
Totals	\$1,590,000	\$755,516	

Water Conservation Rebate Programs 2003-04

- **ULFT Rebate Program** - A total of 83 rebates were issued in the month of May, bringing the total number of rebates up to 1,487 for the length of the program and 1,272 rebates within the current FY. The FY goal is to complete 1,000 rebates. This program has exceeded the region's annual goal of 1,000 rebates. Extra promotions of the program occurred during "May is Water Awareness Month." These efforts should provide increased numbers of rebate applications in June.
- **High Efficiency Clothes Washer Rebate Program** — A total of 139 rebates were issued in the month of May, bringing the program total to 3,202 rebates issued. For the current FY, 1,643 rebates have been issued. The FY goal is to complete 2,500 rebates. This is a continuing rate of 40 to 50 per week. The region is at 66 percent of the annual goal for this program. Additional promotion of the program occurred during "May is Water Awareness Month." These efforts should provide increased numbers of rebate applications in June.
- **Swimming Pool Cover Rebate Program**—The Swimming Pool Cover Rebate Program will start on July 1, 2004 and run through September 30, 2004, a full four month period. IEUA is budgeted for 300 rebates of \$50 a piece and will administer the program here

Water Conservation Programs FY 2003-04

- **Multi-Family ULFT exchange Programs** — At the end of May, 2,086 ULFT's have been installed during the current FY. The FY goal is to install 3,900 ULFT's. The region is at 53 percent of the annual goal for this program. A program to test the costs of installation of 1,056 ULFT's on the City of Ontario is scheduled for July.
- **X-Ray Film Processors** — This program, funded with a \$230,000 DWR grant and additional funding from MWD, will install up to 50 X-Ray film processor rinsing/flushing water recycling units at area hospitals. Through the end of April, 11 Processors have been installed at area hospitals and clinics. In March, DWR staff agreed to extend the funding contract an additional year. Once approved by DWR, the funding contract will end on June 30, 2005.
- **California Urban Water Conservation Council (CUWCC) Activities** — In the IEUA service area, the annual dues for all signatory water agencies (City of Ontario, City of Upland, Monte Vista Water District, Cucamonga Valley Water District, and IEUA) will be split 50/50 between IEUA and the Metropolitan Water District. IEUA will split the total dues owed of \$16,787 with MWD by paying \$8,393.
- **Water Education Water Awareness Committee (WEWAC) Activities** — WEWAC held the award ceremonies to honor the winners of the video contest on May 6th in the City of La Verne. WEWAC Committee members will be receiving oral presentations in June from the teachers who were awarded "EduGrants."
- **Landscape Programs** - IEUA and Regional Water Conservation Partnership is proceeding with new pilot programs in landscaping: "A Garden in Every School" program will provide a native landscape garden at seven schools in the service area. A teacher workshop was held on June 8th that will help identify the specific schools. Another pilot program getting underway provides professional landscape audits to retail water agency identified commercial and residential properties within the IEUA service area. Once the audits are completed, the properties may qualify for a free "weather sensitive" irrigation controller through a program funded by a Proposition 13 grant through the Metropolitan Water District and the California Department of Water Resources.
- **Grant Funding Opportunities**—The following Proposition 50 funding opportunities are expected to be available this year:
 - Water Desalination: \$50 million for water desalination projects, administered by DWR. Applications are expected to be available July 12, 2004, with a due date of September 13, 2004.
 - Water Use Efficiency: \$30 million for Urban and Agricultural Water Use Efficiency Projects, administered by DWR. Applications should become available in June, 2004.
 - Water Security and Safe Drinking Water: The first round of funding is dependent on the outcome of the budget. The consolidated grant proposal will be jointly administered by the Department of Health Services and the State Water Resources Control Board, and the application is expected to be available in the fall of 2004.
 - Integrated Regional Water Management: The first round of funding is dependent on the outcome of the budget. The consolidated grant proposal will be jointly administered by the Department of Water Resources and the State Water Resources Control Board, and the application is expected to be available in October 2004.

Drinking Water Quality Issues/Activities

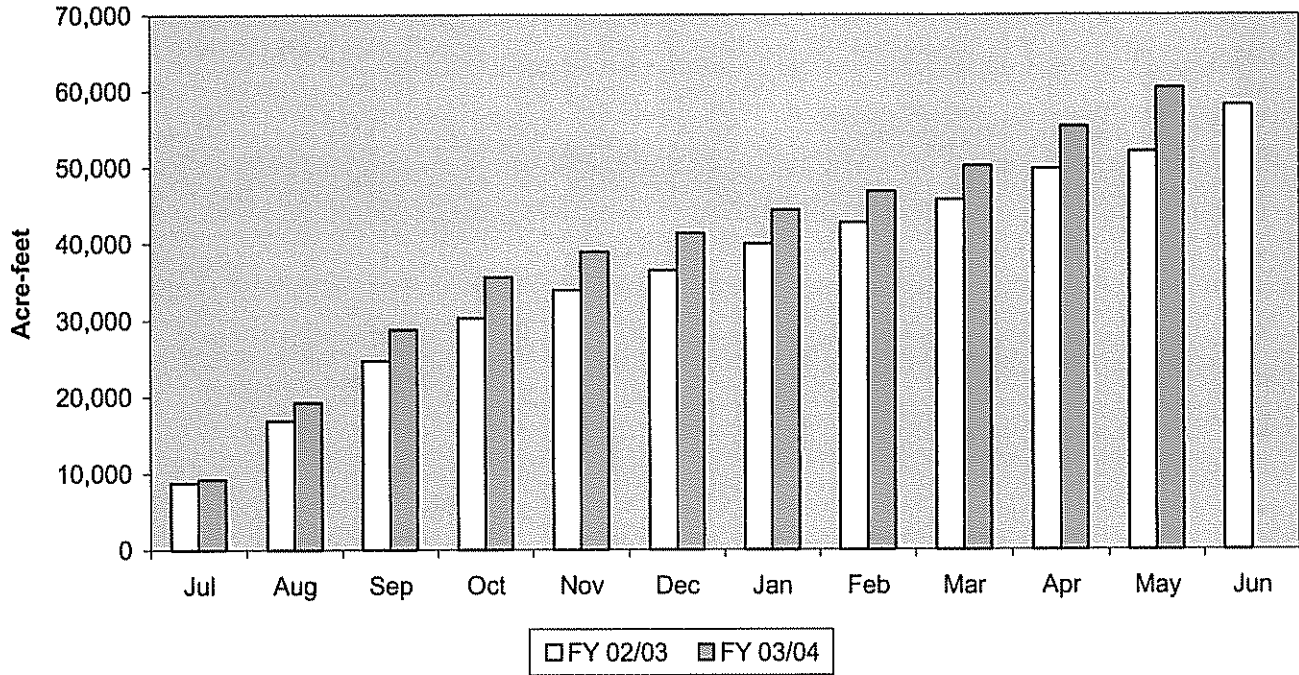
- **Perchlorate Contamination Issues**

The Department of Defense's efforts to secure a Congressional exemption on its perchlorate clean-up responsibilities was unsuccessful. California State University San Bernardino's Water Resources Institute has produced a 20 minute documentary on the perchlorate issue which will be distributed for the Cable TV community. The City of Ontario has requested federal funding for its ion exchange treatment plant to remove perchlorate and nitrates.
- **Salinity Management Issues**

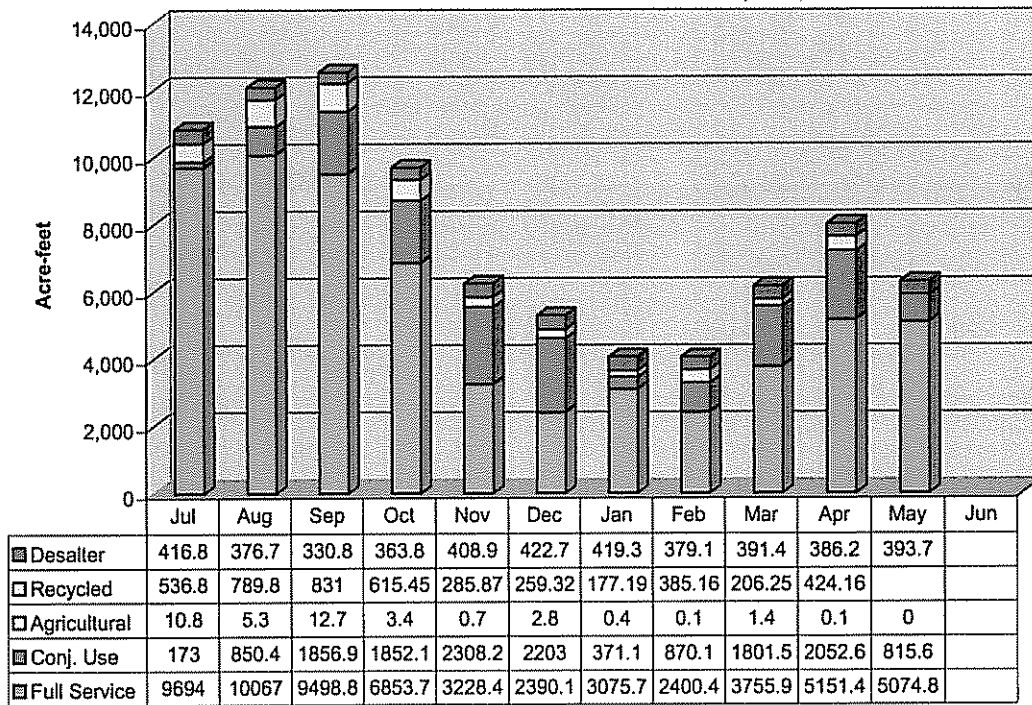
The National Water Resources Institute is developing a water softener reduced salt use pilot program to be implemented in partnership with IEUA, the Southern California Salinity Management Coalition, and the Pacific Water Quality Association.

Y-T-D FY 2003/2004 vs FY 2002/2003

IEUA
Cumulative Monthly Full Service Imported Water Deliveries

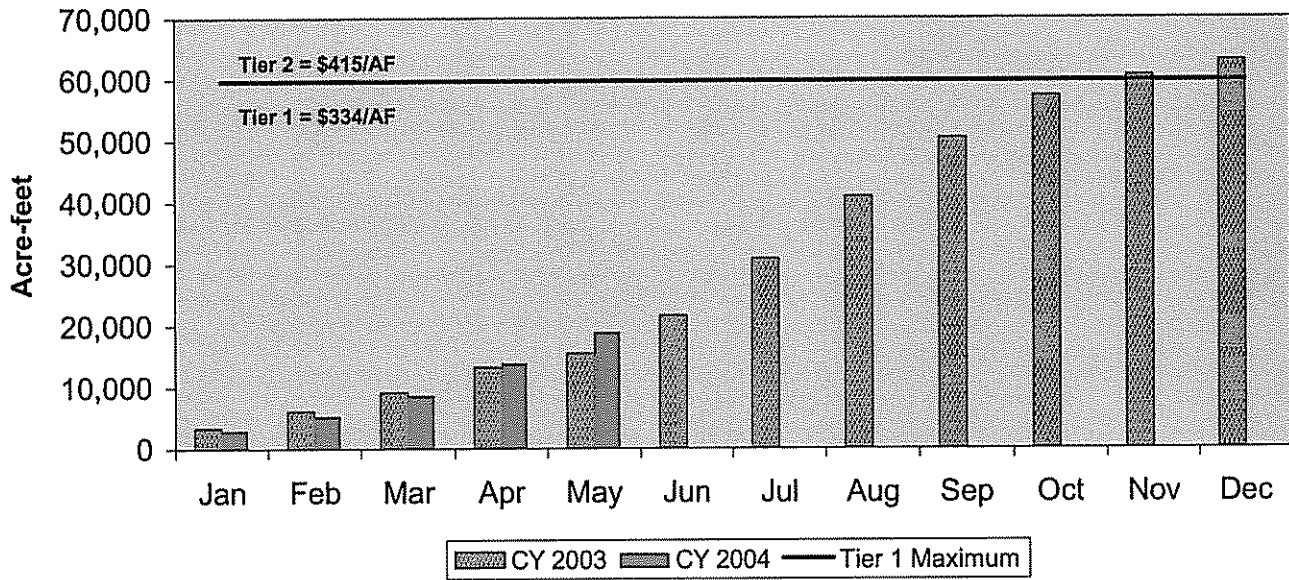


IEUA FY 03/04 Monthly Water use

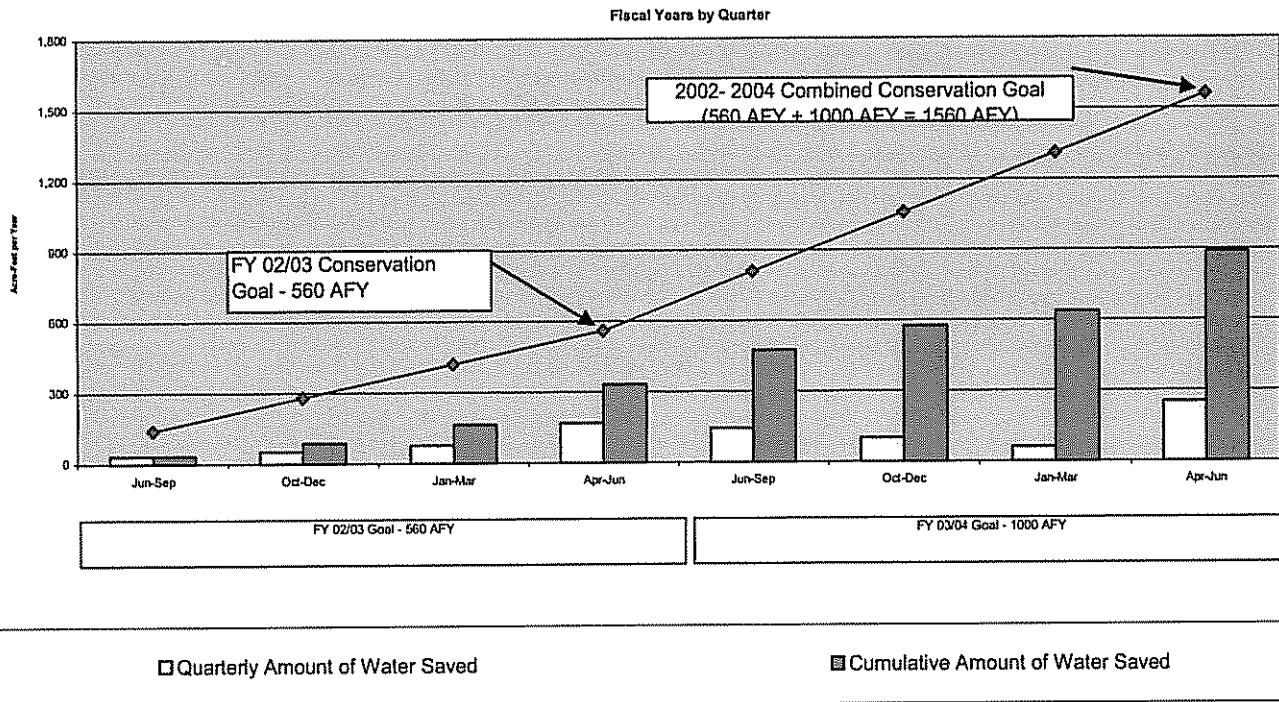


CALENDAR YEAR 2004 TIER I/II PURCHASES

IEUA Cumulative Monthly Tier 1 Imported Water Deliveries 2003-2004



Water Conservation

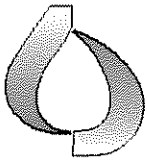


July 2004

SUN	MON	TUES	WED	THUR	FRI	SAT
				1 Regional Tech Committee Mtg @ Montclair	2	3
4 Independence Day	5 Independence Day Holiday	6 SAWPA Committees	7 IEUA Board Mtg	8 Regional Policy Committee Mtg @ Montclair	9 MWD MA Managers Mtg @ MWD	10
11	12 IEUA Water Resources Committee Mtg	13 Consv Partnership Workgroup Mtg Watermaster Ag Pool Mtg SAWPA Commission	14 IEUA Board Committee Mtg Day	15	16	17
18	19	20 S.C. Water Dialogue @ MWD	21 IEUA Board Mtg	22 CB Watermaster Advisory Committee and Board Mtgs MWD Monthly Mtg	23	24
25	26	27 WEWAC Mtg	28	29	30	

August 2004

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3 Consv Partnership Workgroup Mtg SAWPA Committees	4 IEUA Board Mtg	5 Regional Tech Committee Mtg @ Montclair	6	7
8	9 IEUA Water Resources Committee Mtg	10 Watermaster Ag Pool Mtg SAWPA Commission Mtg	11 IEUA Board Committee Mtg Day	12 Regional Policy Committee Mtg @ Montclair	13 MWD MA Managers Mtg @ MWD	14
15	16	17 S.C. Water Dialogue @ MWD	18 IEUA Board Mtg	19	20	21
22	23	24 WEWAC Mtg	25 CA Urban Water Institute Conf @ San Diego (Aug 25, 26, 27)	26 CB Watermaster Advisory Committee and Board Mtgs MWD Monthly Mtg	27	28
29	30	31				



Date: June 24, 2004
To: Chino Basin Water Master Advisory Committee
From: Inland Empire Utilities Agency
Subject: Water Conservation Report

RECOMMENDATION

For Information Only

BACKGROUND

ULF TOILET REBATE PROGRAM

A total of 83 rebates were issued in the month of May, bringing the total number of rebates up to 1,487 for the length of the program, and 1,272 rebates within the current FY. The current fiscal year goal is to complete 1,000 rebates. This program has now met and exceeded the annual goal.

HECW REBATE PROGRAM

A total of 139 rebates were issued during the month of May, bringing the total to 1,643 issued during the current fiscal year. A total of 3,202 rebates have been issued over the length of the program. The current fiscal year goal is 2,500 rebates which puts this program at 66 percent of the goal.

AGENCY ULFT EXCHANGE PROGRAMS

All of the ULFT exchange programs that were scheduled for spring have been completed (City of Chino, Ontario, Monte Vista Water District and the IEUA Regional Exchange programs). Nearly all of the 1,700 ULFT's that were available in these programs were distributed to single-family residents of the various agency service areas. Once all of the old toilets have been returned and a final accounting from each program has been completed, the results will be reported.

MULTI-FAMILY ULF TOILET EXCHANGE PROGRAM

IEUA and its retail water agencies provide free ULF toilets to multi-family property owners throughout the year. The number of ULF toilets installed in the month of May is 130. For the current FY, the program has installed 2,086 toilets. The goal is to complete 3,900 installations, which currently puts the program at 53 percent of the annual goal.

The City of Ontario/Archstone project to install 1,056 ULF toilets will occur in July due to scheduling conflicts with Archstone Properties.

LARGE LANDSCAPE AUDIT PROGRAM

A large landscape audit program is now under way. Working with IEUA's Partnership agencies, properties with high water use have been targeted and will be offered a free landscape audit/survey to determine improvements needed to the irrigation system, plant selection, stormwater retention prospects, and recycled water use potential. Final recommendations at selected sites could include a weather-based irrigation controller through Metropolitan Water District's ET Controller Program.

FY 2004-05 REGIONAL WATER CONSERVATION BUDGET

The proposed budget has been reviewed and supported by the IEUA Board of Directors, Chino Basin Watermaster Advisory Committee, and the Regional Technical and Policy Committees. The water conservation is scheduled to be formally approved by the IEUA Board of Directors in June as part the agency's overall budget.

SWIMMING POOL COVER REBATE PROGRAM

With the support of the Regional Water Conservation Partnership Workgroup, the Swimming Pool Cover Rebate program will start up on July 1st and continue through September 30th 2004. The rebate will be \$50 per pool cover. Marketing materials will be delivered to local swimming pool supply stores in late June.

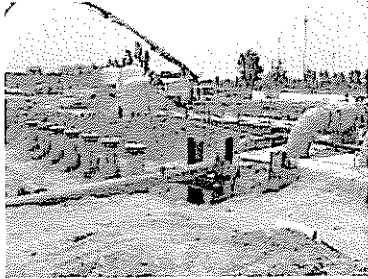
"A GARDEN IN EVERY SCHOOL" PROGRAM

A program to offer a native landscape garden to selected public elementary schools has begun. Working in conjunction with IEUA's Partnership agencies, a contractor has been retained who has extensive experience in identifying teachers and schools where these gardens can be installed. A teacher workshop was held on June 8th in the Event Room of IEUA offices. The program goal is to install 7 native plant gardens at 7 different schools during the summer and fall.

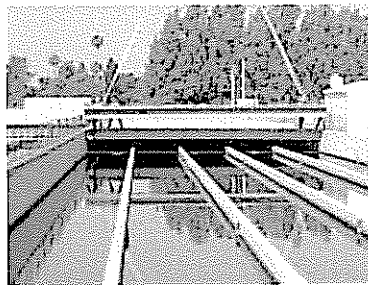


MAY 2004 RECYCLED WATER SUMMARY

Capital Projects Summary



RP-1 New Pump Station



RP-1 New Chlorine Contact Basin

Phase I - Projects Under Construction

- RP-1/RP-4 Pump Station (Budget \$7,718,000)
Under construction and will be completed by July 2004.
- RP-1 Chlorination Tank (Budget \$4,817,000)
Under construction and will be completed by July 2004.
- Pine Avenue Intertie (Budget—Phase I & II \$1,066,000) COMPLETE
- Wineville Pipeline (Budget \$2,307,200) COMPLETE
Inland Paperboard Packaging will begin taking recycled water in Summer 2004.
- Reliant Pipeline (Budget \$1,115,476) COMPLETE
- Philadelphia Pipeline (Budget \$3,591,400)
Under construction and will be completed in July 2004.
- Whittram Pipeline (Budget \$3,620,000)
The Whittram Pipeline will serve recycled water to the Banana and Hickory Basins. Project was bid March 11, contract will be approved April 21, with state approval by April 28, 2004. Construction is scheduled for completion by December 2004.
- RP-4 West Branch (Budget \$9,849,000)
Design for the RP-4 West Branch is complete. The pipeline will serve recycled water to Turner Recharge Basins and Empire Lakes Golf Course as well as other customers in Ontario and CVWD. Bid was awarded on May 10, 2004. The project will be completed by Spring 2005.

Total Budget—Active Projects—\$34,084,276

Phase II - Engineering Design

RFP for the Phase II of Regional Recycled Water Distribution System was circulated on March 10, 2004 and includes:

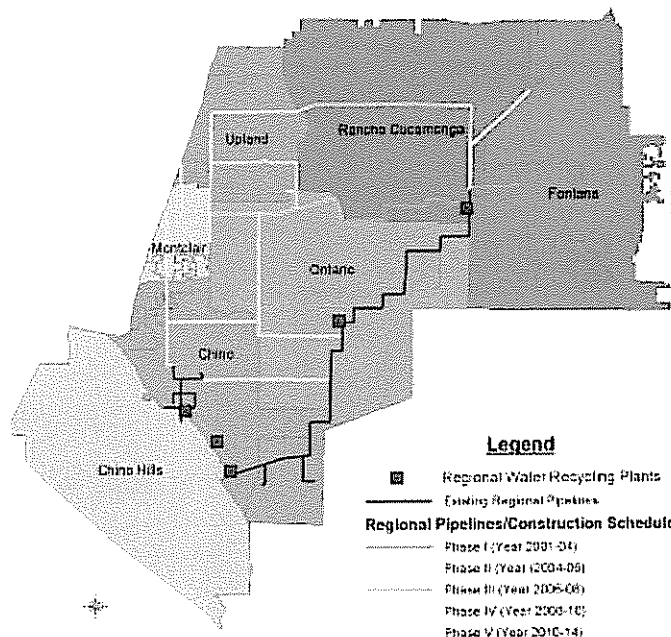
1. Recycled Water Master Plan Update
2. RP-4 Area 2 MG Regional Recycled Water Reservoir, Pipeline and Pump Station
3. North Etiwanda Regional Water Pipeline and Pump Station
4. Etiwanda Avenue 3 MG Regional Recycled Water Reservoir
5. RP-1 South Regional Recycled Water Pump Station
6. San Antonio Channel Recycled Water Pipeline

Consultant will update the existing recycled water master plan to justify and adjust the alignments and update recycled water demands using a hydraulic model.

Projected Budget—\$28,000,000

Simultaneously, Edison Regional Recycled Water Pipeline will be designed and built to interconnect the existing CCWRF and TP-1 Outfall system. This pipeline will serve major agricultural users in Ontario and Chino. In addition, Archibald Alignment will be built to serve new development areas in Ontario and Jurupa community.

Projected Budget—\$12,000,000



Total Implementation Plan

ID	Task Name	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
1	Phase I		\$34,000,000.00														
2	Phase II					\$40,000,000.00											
3	Phase III						\$15,000,000.00										
4	Phase IV								\$21,000,000.00								
5	Phase V										\$22,000,000.00						

Phase I Implementation Plan

ID	Task Name	Budget	Actual	Remaining	2004															
					Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	RP-1/RP-4 Pump Station	\$7,718,000	\$5,244,144	\$2,473,856	[Gantt bar]															
2	RP-1 Chlorination Tank	\$4,817,200	\$3,660,150	\$1,140,041	[Gantt bar]															
3	Pine Avenue Interline	\$1,060,000	\$1,000,431	\$57,569	[Gantt bar]															
4	Wineville Pipeline	\$2,307,200	\$1,262,098	\$1,044,202	[Gantt bar]															
5	Reliant Pipeline	\$1,115,476	\$1,115,476	\$0	[Gantt bar]															
6	Philadelphia Pipeline	\$3,501,400	\$727,483	\$2,683,917	[Gantt bar]															
7	Whitlam Pipeline	\$3,620,000	\$484,750	\$3,155,250	[Gantt bar]															
8	RP-4 West Branch	\$9,849,000	\$484,060	\$9,364,932	[Gantt bar]															

Phase II Implementation Plan

ID	Task Name	Budget	2004												2005											
			May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
1	RP-4 Recycled Water Reservoir	\$3,200,000	[Gantt bar]																							
2	North Elwanda Pipeline & Pump Station	\$8,000,000	[Gantt bar]																							
3	Elwanda Recycled Water Reservoir	\$4,400,000	[Gantt bar]																							
4	RP-1 South Pump Station	\$4,500,000	[Gantt bar]																							
5	San Antonio Channel Pipeline	\$8,000,000	[Gantt bar]																							
6	Edison Pipeline	\$9,150,000	[Gantt bar]																							
7	Archibald Pipeline	\$2,850,000	[Gantt bar]																							

Financing Plan

Program Financing Plan:

- Regional Capital Fund 20-25%
- SWRCB Grants 10-15%
- DWR Grant 5%
- Federal Grants 20%
- SWRCB Loans 20-35%

Annual Revenue:

- MWD LPP (Loan Repayment) \$2 Million
- Recycled Water Sales \$4-6 Million

Funding Phase I

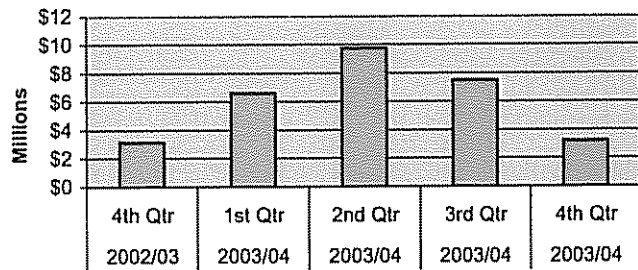
- Regional Capital Fund \$7,000,000
- SWRCB Recycling Grant \$5,000,000
- SWRCB Recycling Loan \$22,000,000

Funding Phase II

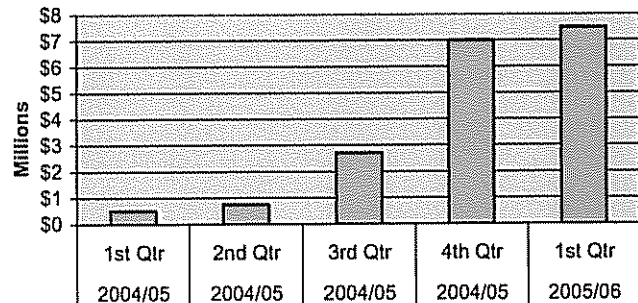
- Regional Capital Fund \$3,000,000
- SWRCB Recycling Grant* \$5,000,000
- SWRCB Loan* \$20,000,000

*SWRCB Funding application submitted in September 2003 and funding expected in July 2004.

Regional Recycled Water Phase I—Projected Cash Flow



Regional Recycled Water Phase II—Projected Cash Flow



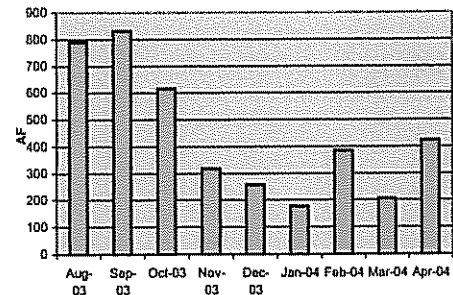
Activity Summary

New Customers in 2003

- 13 new recycled water customers were connected:

	Expected Usage (AF)
CW Farm (former Arthur Farms)	1,000
Lewis Homes Corporation	120
Big League Dreams	100
Fairfield Ranch Neighborhood Park	20
Higgins Brick	5
Engelsma Dairy	150
DBRS Medical System	1
Central Chino Business Park	10
Artesian HOA	5
Reliant Energy	1,000
Fairfield Ranch Business park Phase I	5
Macro-Z Technology	1
Industrial Real Estate Development	3
Total	2,420

Recycled Water Sales



Delivery Period	FY 2002-03	FY 2003-04
April	259	424
Year to Date	905	1,193
FY Total	3,692	4,511
Budget		6,950

New Customers in 2004

- Fairfield Ranch Business Park Phase II**
Received an approval for the engineer's report from DHS. Needs to complete the cross-connection test prior to using recycled water.
- New Chino Hills High School and elementary school**
The school board has accepted to use recycled water on the school ground. The City of Chino Hills is in the process of preparing the engineer's report.
- Quetico II**
Started to use recycled water in February
- Sterling & Pinnacle Apartment in Chino Hills**
Submitted the engineer's report to DHS
- Inland Paper Board**
In the process of negotiating with Inland Paper Board to use recycled water.
- Kaiser Hospital**
DHS approved the engineer's report. With the completion of Philadelphia pipeline in June, Kaiser will start to use recycled water.

Operation & Planning

- CCWRF Recycling system was shutdown from 9:00 AM, May 3 to 7:00 PM, May 4 to accommodate the re-routing of the feed pipeline to the recycled water reservoir. This modification helped to save in future chemical cost.
- Agricultural users in Ontario were solicited for use of recycled water in place of their ground-water. Second round of on-site visits will confirm the demand and pressure requirements.

Potential Customers in 2005

- City of Chino**
CIM (CalPoly & Laundry facility), OLS Energy, College Park (2,500 homes, 2 schools, extension of Ayala Park over 435 acre), Paradise Textile, and Mission Linen
- City of Chino Hills**
Oak Crest Golf Course
- City of Ontario**
Ontario Mills, Crothall Laundry, and Agricultural customers
- City of Rancho Cucamonga**
Empire Lakes Golf Course



DBRS Medical System in Chino

Customer Development

■ Agricultural customers along the TP-1 Outfall line

Once the RP-1 chlorine contact basin is completed, many agricultural customers and other outfall customers could be served as early as early summer 2004. Prepared priority list of customers and working with Ontario staff to market recycled water.

■ Focused Customer Marketing

Large customers with annual usage over 100 AFY will be targeted. Other smaller customers will be added along the way. IEUA staff is working closely with the retail agencies to develop and update the customer list and to coordinate marketing effort. IEUA's recycled water marketing database was distributed to the Cities of Chino, Chino Hills, Ontario, and Cucamonga Water District to aid with the customer and recycled water use tracking.

■ Targeted Major Customers in 2004

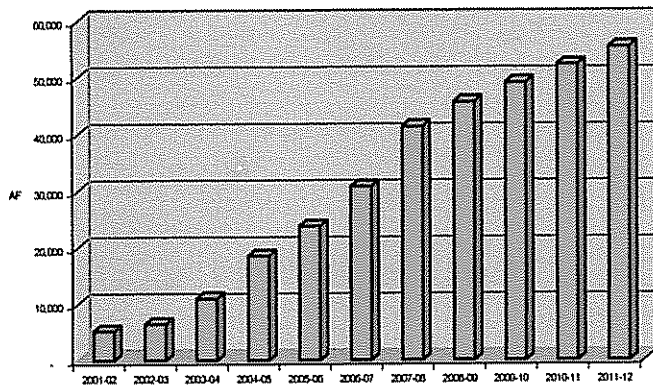
1. Empire Lakes Golf Course	800 AFY
2. Additional Farms on Outfall	5,000 AFY
3. Ontario Center Owners Association	260 AFY
4. California Co-generation	250 AFY
5. Oak Crest Golf Course	500 AFY
6. CIM (Farming Operation & Laundry Facility)	1,500 AFY
7. Paradise Textile	600 AFY
8. Mission Linen	500 AFY



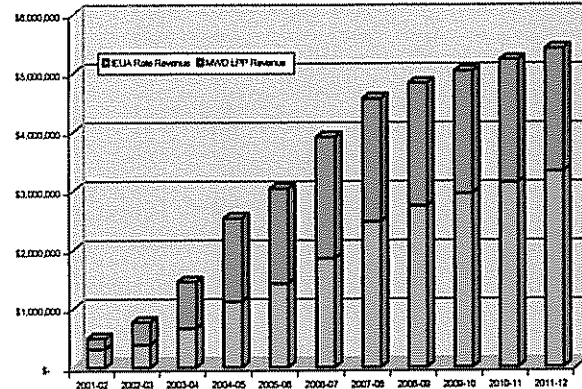
Rincon Park in Chino Hills

Projected Sales & Revenue

Projected Recycled Water Sales



Projected Recycled Water Revenue



Regulatory/Permits

■ CEQA—PEIR Certified	June, 2002
■ CBWM Article X—Approved	May, 2002
■ SARWQCB Basin Plan—Approved	January, 2004
■ DHS Title 22 Report (Recharge)	June, 2004
■ SARWQCB Discharge Permit	Summer, 2004



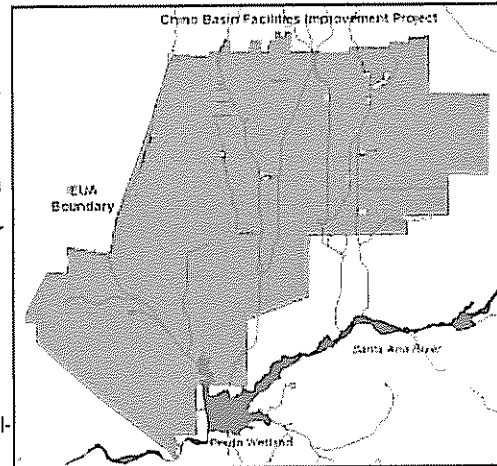
Construction of Oak Crest Golf Course in Chino Hills

MAY 2004 CHINO BASIN FACILITIES IMPROVEMENT PROJECT SUMMARY

Program Description

The Chino Basin Facilities Improvement Program (CBFIP), a joint effort of the Chino Basin Watermaster (CBWM), the Chino Basin Water Conservation District (CBWCD), the Inland Empire Utilities Agency (IEUA), and the San Bernardino County Flood Control Department (SBCFCD) is well underway with six of eight bid packages being constructed. IEUA was selected as the "Contracting Agency", established financing for the CBFIP through grants from the Santa Ana Watershed Project Authority (SAWPA) under Proposition 13 in June 1999. The CBFIP is a system comprised of activation of two Metropolitan Water District turnouts from the Rialto Pipeline and construction of a new turnout on the Etiwanda Intertie; modifications to several flood control channels conveying imported water, storm water and recycled water; and five rubber dams and three drop inlets diversion structures in the flood control channels to divert the water to the 18 groundwater recharge sites. The 18 sites have 42 recharge basins varying from 1 to 5 basins at the respective sites. The groundwater recharge sites, when fully developed will have a total annual recharge capacity of 120,000 to 170,000 ac. ft.; 20,000 to 25,000 of storm water; 80,000 to 120,000 ac. ft. of imported water; and 20,000 to 25,000 ac. ft. of recycled water.

The construction of the CBFIP will be in eight phases, with different contractors, totaling \$38,700,000. Construction is projected for completion in March 2005.



Project Purpose:

The purpose of the project is to provide storm water and imported water recharge facilities improvements required to increase groundwater recharge in the Chino Basin and to implement the Recharge Master Plan and Optimum Basin Management Program (OBMP)

Project Participant:

- Inland Empire Utilities Agency (Lead, Contracting Agency)
- Chino Basin Watermaster
- San Bernardino County Flood Control District
- Chino Basin Water Conservation District
- SAWPA

Design and Construction Management Team:

- Tettermer & Associates (Design Consultant)
- Black & Veatch/IEUA (Program & Construction Management)
- URS/Twining-Govil-Ryan (Geotechnical Consultant)

Bid Package No. 1 (Budget \$8,250,000)

Bid Package No. 1 includes six basins: Banana Basin, College Heights Basins, Lower Day Basin, RP-3 Basins, Turner Basin No. 1, Turner Basins No. 2, 3, & 4

- The IEUA Board of Directors accepted as complete Bid Package No. 1, May 12, 2004.

Bid Package No. 2 (Budget \$6,700,000)

Bid Package No. 2 includes three basins: Declez Basin, Ely Basins 1, 2, & 3, and 8th Street Basins; four rubber dams: College Heights (San Antonio Channel), Lower day Basin (Day Creek Channel), RP-3 Basins (Declez Channel), Turner Basin No. 1 (Cucamonga Channel); and three drop inlets: Brooks Basin (San Antonio Channel), Turner Basins 2, 3, & 4 (Deer Creek Channel), and Victoria Basin (Etiwanda Channel).

Basins status

- Declez Basin - SUBSTANTIALLY COMPLETE
- Ely Basins 1, 2, & 3 - SUBSTANTIALLY COMPLETE—Sluice gates stolen—reordered & installed.
- 8th Street Basins - SUBSTANTIALLY COMPLETE

Rubber Dam status

- The four rubber dams are installed in the channels and have been manually air tested—SUBSTANTIALLY COMPLETE.

Drop Inlets

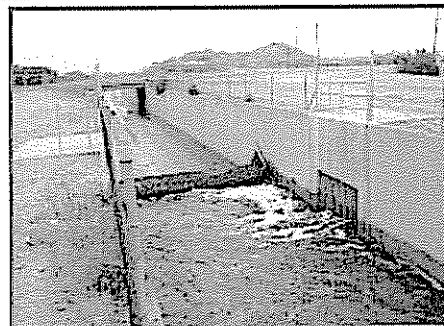
- The three drop inlets—SUBSTANTIALLY COMPLETE

Monitoring Wells at Brooks Basin—SUBSTANTIALLY COMPLETE

- Monitoring Wells at Brooks Basin
- Expected Acceptance Date: June 2, 2004

Bid Package No. 3 (Budget \$3,200,000)

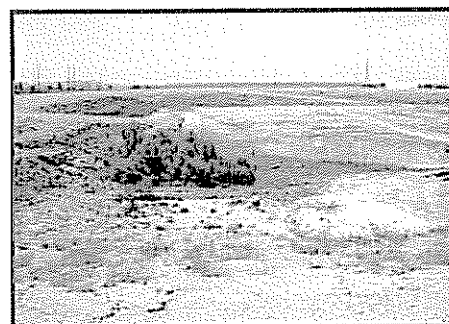
- Construction began January 5, 2004.
- Bid Package No. 3 includes the construction of 11,000 linear feet of 36" diameter pipeline in Jurupa Avenue from the Jurupa Basin at Mulberry Avenue to Beech Avenue at the RP-3 Basins.
- 6,000 lineal feet has been installed from RP-3 site westward along Jurupa Avenue. The project is 55% complete.
- The construction period is 367 calendar days.



College Heights Rubber Dam inflated

Bid Package No. 4 (Budget \$2,300,000)

- Bid package No.4 consists of constructing (1) a canal and 100 linear feet of 48" pipe to convey water to (2) the Jurupa Pump Station and (3) 400 lineal feet of 36" diameter cement mortar lined & coated (CML & C) steel pipe force main.
- The Jurupa Basin Pump Station was bid November 20, 2003 and was awarded December 3, 2003. The "notice to proceed" was issued at preconstruction meeting held February 19, 2004. Construction started on February 20, 2004. The invert and lower portion of the walls of the wet well have been poured.
- SBCFCD has committed to constructing a section of the San Sevaine concrete channel with a drop inlet and pipeline to deliver stormwater, imported water, and recycled water to Jurupa Basin that will be pumped to the RP-3 Basins and the Delez Basin. The remainder of the San Sevaine Channel between Valley Boulevard to the Jurupa Basin drop inlet will be an open channel until funds are available to complete channel lining.
- The construction period is 218 calendar days.



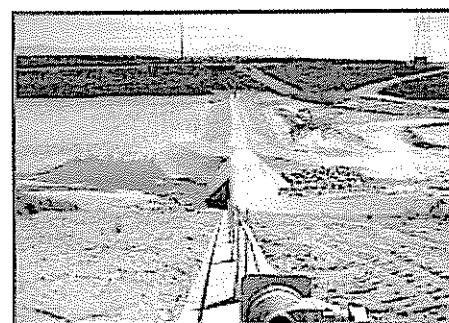
Ely Basin

Bid Package No. 5 (Budget \$3,700,000)

- DenBoer has begun construction at the RP-3 site, College Heights Basins, Brooks Basin, Lower Day Basins and Turner Basins; and is measuring cable lengths at all other sites in order to purchase cables and appurtenances.
- Radio controls will monitor and govern water levels in all the basins, control the drop inlets and rubber dams; four monitoring sites will be established at the CBWM, CBWCD and SBCFCD offices with the master controls located at RWRP-1. The SBCFCD offices will have a satellite control station.

Basins status

- Montclair Basins—The SCADA system will be installed in the Montclair Basins to control the inlet and internal gates.
- The construction period is 242 calendar days.

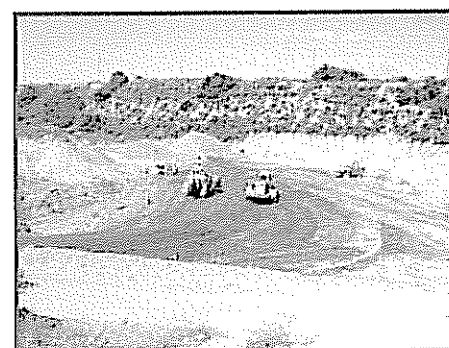


Lower Day Basin

Bid Package No. 6 (Budget \$1,400,000)

Bid Package No. 6 includes the MWD CB Turnouts No. 11TB, 15T and a new connection on the Etiwanda Intertie @ Station 211 + 47.

- The Bid for redevelopment of the two existing MWD turnouts and development of a new turnout from the Etiwanda Intertie @ location 211+47 was awarded February 4, 2004 to Griffith Construction, Inc.
- The letter of Notification to Proceed was Issue on March 19, 2004.



Upland Basin

- IEUA pre-purchased butterfly and sleeve valves to expedite the project.
- The construction period is 193 calendar days.
- The Etiwanda Intertie was shutdown on April 25, 2004; tapping the line and tie-in began early April 26, 2004, the butterfly valve was installed @ Station 211 + 47 and completed the same day. Work is progressing at the other two sites.

Bid Package No. 7 (Budget \$2,735,000)

- Announcement of Bid Package No. 7, will be on May 27 2004, a courtesy tour of the prioritized construction sites will be conducted. The scheduled bid opening is on June 22, 2004, and award of contract is anticipated July 7 2004.
- The projects and the percentage of the design that is completed are listed by priority as follows:

Project	Design	Estimated Cost
1. RP-3 Mitigation Project, Cell #2	100% complete	\$500,000
2. Hickory Basin Manifold PS	100% complete	\$1,000,000
3. Banana Basin discharge	100% complete	\$70,000
4. Victoria Basin Completion	100% complete	\$1,000,000
5. San Sevaine Rubber Dam & Control House	100% complete	\$165,000
Subtotal		\$2,735,000

- The construction period is 150 calendar days.

Victoria Basin - Windrow Earth Transport Contract (WET)

Permits for earth work in Victoria Basin have been issued by the SBCFCD. Dispatch Trucking, subsidiary of WET, has excavated all the 100,000 cubic yards of soil from the floor of the Victoria Basin which will save \$600,000. The excavation will be over an extended period of time due to the high gravel content of the material, not being readily usable for base material for building construction.

Montclair Basins

The SCADA system will be installed in the Montclair Basins to control the inlet gate and internal gates.

Bid Package No. 8 (Budget \$4,900,000)

The project is scheduled to start in July 2004 and expected to be completed at the end of September 2004.

1. Recycled Water connections, 4 ea.	\$1,500,000
2. Monitoring wells, 9 ea.	\$1,500,000
3. Upland Basin	\$600,000
4. Upland Basin 48" Pipeline	\$150,000
5. SCADA Module Refinements	\$350,000
6. Repair of College Heights Leak	\$700,000
7. Complete Operational Design Modification	\$100,000
Subtotal	\$4,900,000

- The construction period is 120 calendar days.

Non-Construction Cost (Budget \$1,513,000)

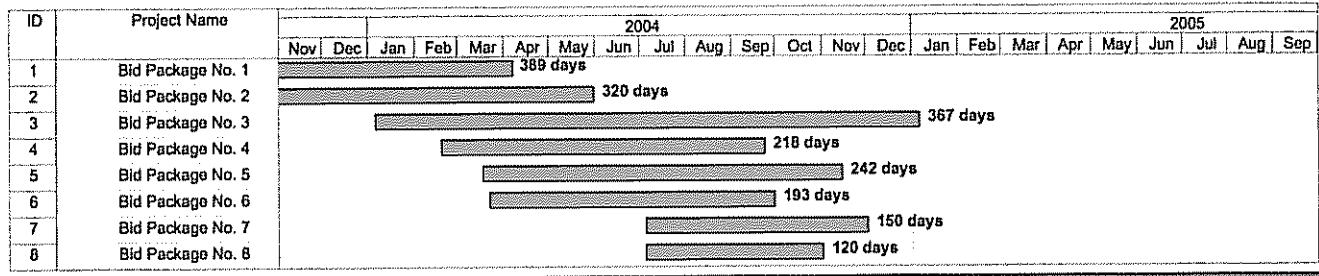
Equipment Pre-Purchased

1. Rubber Dams, 5 ea.	\$885,479
2. Sleeve and BF Valves, 3 ea.	\$264,941

Equipment to be Purchased

1. Portable Pumps, 2 ea.	\$80,000
2. Pick-up Truck, 1 ea.	\$25,000
3. Road Grader, 1 ea.	\$200,000
4. Spare Parts for Valve Actuator	\$50,000
5. Safety Grates for Gate Opening	\$7,500
Subtotal	\$1,512,920

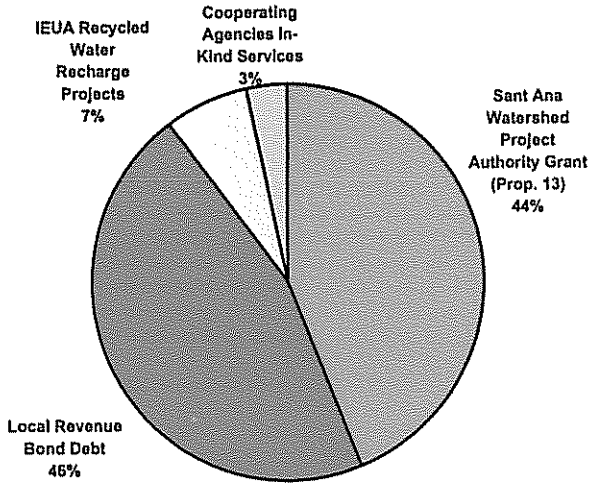
CBFIP Active Projects Construction Schedule



Project Financing

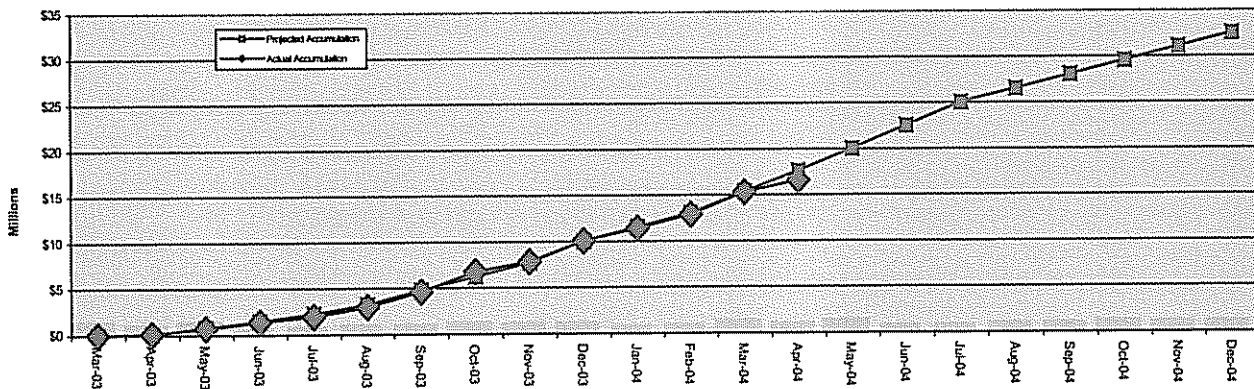
- Santa Ana Watershed Authority Grant (Prop. 13) \$19 Million
- Local revenue bond debt \$20 Million
- Cooperating Agencies in-kind Services \$1.5 Million
- New Grant Funding from DWR \$5 Million

Project Summary



Construction Phase	Budget	Projected Actual
Bid Package No. 1	\$8,200,000	\$8,250,000
Bid Package No. 2	\$6,700,000	\$6,700,000
Bid Package No. 3	\$2,900,000	\$3,200,000
Bid Package No. 4	\$2,300,000	\$2,300,000
Bid Package No. 5	\$3,700,000	\$3,700,000
Bid Package No. 6	\$1,400,000	\$1,400,000
Bid Package No. 7	\$2,735,000	\$2,880,000
Bid Package No. 8	\$4,900,000	\$5,150,000
Equipment	\$1,513,000	\$1,520,000
Expenditure		(\$23,230,000)
Total Budget	\$34,348,000	\$35,100,000

Projected vs. Actual Costs





Inland Empire
UTILITIES AGENCY

Date: June 16, 2004
To: Honorable Board of Directors
Through: Public and Legislative Affairs Committee (6/9/04)
From: Richard W. Atwater
Chief Executive Officer/General Manager
Submitted by: Martha Davis
Executive Manager of Policy Development
Subject: May Legislative Report from Agricultural Resources

RECOMMENDATION

This is an informational item regarding the May legislative report from Agricultural Resources.

BACKGROUND

Dave Weiman provides a monthly report on his federal activities on behalf of IEUA.

PRIOR BOARD ACTION

None.

IMPACT ON BUDGET

None.

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Agricultural Resources

635 Maryland Avenue, N.E.
Washington, D.C. 20002-5811
(202) 546-5115
(202) 546-4472-fax
agresources@erols.com

May 29, 2004

Legislative Report

TO: Richard W. Atwater
General Manager, Inland Empire Utility Agency

FR: David M. Weiman
Agricultural Resources
LEGISLATIVE REPRESENTATIVE, IEUA

SU: Legislative Report, May 2004

Highlights:

- Water Recycling Bills Marked Up, Reported from House Resources Committee – 200,000 AF of New Water Annually
- CALFED Bill Approved by House Resources, Key Napolitano Amendments on Water Recycling and Groundwater Remediation Included
- Interior Finally Releases Southern California Recycling Feasibility Study
- Drought and Title XVI
- Army Corps of Engineers Suspends Work on Chino Creek Restoration – IEUA Exploring New Ways to Fund, Complete Project
- Perchlorate – Feinstein Tells DOD to Take Responsibility for Perchlorate Cleanup and Supports Cucamonga Valley Water District Request to “Test and Evaluate” New Technology for Cleanup
- Perchlorate – Feinstein Boxer Challenge Integrity of National Academy of Sciences Study of Proposed Drinking Water Perchlorate Standards

- **Perchlorate – Feinstein Amendment Pending on DOD Bill in Senate**
- **Perchlorate – House and Senate Both Reject DOD Exemption**
- **Perchlorate – Regional Cleanup Bills Being Drafted**
- **Cows and Cars – New IEUA Partnership Proposal**
- **IEUA Working Partners**

Resources Committee Approves Recycling Bills. On May 5 and again May 19, the Resources Committee held a Committee business meeting at which three water recycling bills were passed. These included Rep. Gary Miller's Chino Basin Recycling bill (with authorization for the desalters) and Rep. David Dreier's IEUA and CVWD Recycling Authorizations. At the second May markup, the Committee approved the Orange County Water District recycling bill. Between the three bills, the Title XVI water recycling programs will produce approximately 200,000 af annually of new, recycled water for the region. Next steps, reports must be prepared and filed. Then, the bills will be placed on a Calendar for Floor consideration. The Resources Committee filed the Report on the Dreier Bill on May 20. The Reports for the other two bills remain pending. It is anticipated that the bills will be considered and passed in June, and sent over to the Senate for their consideration.

Resources Committe Approves CALFED Bill – Includes Two New Napolitano Amendments, One on Recycling and the Other on Ground Water Remediation. The House Resources Committee, following months of negotiations, in California and DC, passed its version of the CALFED bill. The Pombo Calvert version differs from the Feinstein-Boxer bill, passed by the Senate Energy Committee Committee several weeks prior. Before final passage, the bills must be reconciled. Rep. Grace Napolitano offered an amendment to deem the water recycling projects in the Southern California Feasibility Study "feasible," overturning the Interior Department's assertion to the contrary. In addition, her amendment contained a wholly new provision making "groundwater remediation" projects eligible for CALFED funding. This has the potential to help IEUA fund perchlorate and VOC groundwater problems. The Napolitano amendment was accepted on a voice vote with open encouragement from Chairman Pombo.

Interior Department Finally – Begrudgingly Release Southern California Water Reclamation and Reuse Study – Submitted to Congress – Sort Of. In a letter (dated April 14 by received in mid-May) to Chairman Calvert, the Interior Department finally – and at long last – submitted the Southern California Water Recycling Feasibility Study. In keeping with Interior's hostility to the program, the transmittal letter attempts to undermine the Report (hence, Mrs. Napolitano's amendment on CALFED statutorily determining that the 34 projects in the feasibility study are determined to be "feasible." The letter is signed by Bureau of Reclamation Commissioner, John Keys. Curiously, the letter states that the Report is being submitted pursuant to the Chairman's request, and is copied to Mrs. Napolitano in her capacity as ranking minority member and the cost-share partners. There is no indication that the Study was submitted to the Senate as required by law.

Drought and Title XVI. The water situation on the Colorado River is well known. And today, there is more and more attention to California's emerging drought profile. Notwithstanding the Interior Department's desire to eliminate the program, the drought is compelling fresh attention to it. In Nevada, Title XVI projects are being advanced to deal with the drought. I anticipate several Title XVI projects to be considered in the House in the remaining days of the Session.

Army Corps – Chino Creek Restoration Study. As reported a month ago, in early April, IEUA learned that the Corps had "run out of money" while preparing studies for the Chino Creek restoration program. Eliza Jane Whitman provided photos depicting an unregulated dump existed on the Corps-owned property. The Corps, after getting the photos, decided to clean it up. One small step. The Corps confirmed in writing to the General Manager that funds for this program were exhausted for the fiscal year, but agreed to look at end-of-year funding possibilities as well as funding for next fiscal year (beginning October 1). The Corps staff at headquarters did not realize that "their property" was to be enhanced, and further, is asking questions about ESA implications for this project.

Perchlorate – Feinstein Supports Cucamonga Request to DOD. Feinstein wrote Secretary Rumsfeld in early May supporting Cucamonga Valley Water Districts request to "test and evaluate" a new technology for perchlorate and water cleanup. The Senator also reminded the Defense Secretary that in November 2002 she urged that DOD "take responsibility" for perchlorate cleanup.

Perchlorate – Feinstein-Boxer Raise Integrity Questions – National Academy of Sciences, DOD Reports. In early May, Senator Feinstein also sent DOD a letter criticizing their failure to meet a congressionally-imposed reporting deadline on perchlorate. Later in the month, Senators Feinstein and Boxer wrote the National Academy of Sciences regarding their review of perchlorate standards and whether or not panel members had undisclosed conflicts.

Perchlorate – Feinstein Amendment to DOD Authorization Bill Pending in Senate. The Senate has taken up the annual DOD Authorization Bill. Senator Feinstein has introduced an amendment urging DOD to take the lead in finding new ways to cleanup perchlorate. The bill is still pending in the Senate and the amendment is expected to be considered sometime during June.

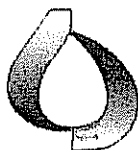
Perchlorate – Congress Rejects DOD Perchlorate Exemption. DOD submitted a request for language – their Range Initiative. AWWA, AMWA, MWD, ACWA and others vigorously opposed the language. As drafted, the language could have the practical effect of exempting DOD from responsibility for perchlorate contamination in drinking water across the Nation. Both the House and Senate Armed Services Committees rejected the DOD request. Neither bill has the language. There is still concern that the language will be added in Conference.

Perchlorate – Pombo Introduces Groundwater Cleanup Bill for Santa Clara – Model for SAWPA, Southern California and Inland Empire. Chairman Pombo, Resources Committee, introduced a bill to assist water agencies and local communities with groundwater contamination cleanup, including perchlorate. This bill has created interest among Members and Staff from the Inland Empire. I anticipate a companion bill for our region to be considered for introduction shortly.

Cows and Cars. IEUA is continuing to work with CalStart on this new initiative. The proposal is to take some of the methane from dairy cows, clean it up, and then running a fleet of trucks and busses – all to reduce the regional air and water quality challenges.

IEUA Continues to Work With Various Partners. On an on-going basis in Washington, IEUA continues to work with:

- Metropolitan Water District of Southern California
- Milk Producer's Council
- SAWPA
- Water Environment Federation (WEF)
- Association of California Water Agencies (ACWA)
- WaterReuse Association
- CALStart
- OCWD
- CVWD
- Others



Inland Empire
UTILITIES AGENCY

Date: June 16, 2004
To: Honorable Board of Directors
Through: Public and Legislative Affairs Committee (6/9/04)
From: Richard W. Atwater
Chief Executive Officer/General Manager
Submitted by: Martha Davis
Executive Manager of Policy Development
Subject: May Legislative Report from Geyer and Associates

RECOMMENDATION

This is an informational item regarding the May legislative report from Geyer and Associates.

BACKGROUND

Bill Geyer and Jennifer West provide a monthly report on their state activities on behalf of IEUA.

PRIOR BOARD ACTION

None.

IMPACT ON BUDGET

None.

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MEMORANDUM

TO: Richard Atwater and Martha Davis
FROM: Jennifer West and Bill Geyer
DATE: May 27, 2004
RE: May Legislative Report

Budget Update

Governor Announces Two Year Property Tax Shift

With the release of the May Revise, local governments and special districts agreed to a two-year shift of Ad-valorem property tax revenues in exchange for long-term constitutional protection. The breakdown of the proposed shift is as follows:

- \$350 million a year from counties
- \$350 million a year from cities
- \$350 million a year from special districts
- \$ 250 million a year from redevelopment agencies.

These cuts, (\$1.3 billion each year) are linked to a long-term constitutional protection measure that would be placed on the November 2004 ballot and would prevent the state from taking and using local government funds in the future. This is an alternate ballot measure that still needs to be negotiated and passed by the Legislature.

A formula is still being negotiated for how the \$350 million shift between special districts will be distributed. While nothing is yet final, and these numbers could change, it is expected that enterprise special districts could be responsible for \$200 million of the shift. Based on existing information, this would represent a \$60 million shift from the Santa Ana Watershed, with approximately \$18 million coming from IEUA over two years. IEUA and SAWPA have developed a strategy for managing the impacts of the shift. It includes:

1. Engaging in the state budget process in an attempt to reduce this disproportionate impact on the region.
2. Insuring that other more aggressive property tax shift proposals are defeated. (Recently the Legislative Analyst recommended an alternative budget proposal that would permanently shift all Ad-valorem property revenues from enterprise special districts.)

3. Look for additional funding opportunities to ensure that the region and IEUA can continue to effectively manage its water supplies, absorb the region's continued growth and recover from the impacts of the 2003 wildfire season.

Once again, as the deal is not finalized, enterprise special districts remain particularly vulnerable to additional shifts.

Groundwater Funds: Proposition 13

Last fall IEUA was awarded a \$15 million grant (Proposition 13) from DWR for groundwater conjunctive use management projects. Unfortunately, the funds for the grants were not appropriated in the 2003/04 budget. Therefore, IEUA has been working with budget staff to ensure that the funding is contained in the 04/05 budget. During the last few weeks budget subcommittees in the Assembly and Senate passed the additional appropriation for DWR. With these actions, the funding will likely be contained in the budget that will ultimately go to the Governor for his approval.

Dairy Water Quality Protection Program

Last week a Senate Budget Subcommittee approved budget language to create the "Dairy Water Quality Improvement Program", which would make grants (funds would come from Proposition 50, Chapter 5) available to address dairy-related threats or impairments to surface or groundwater. MPC was a sponsor of the proposal. The State Water Resources Control Board in consultation with the Department of Food and Agriculture would run the proposed program. Both on-farm and regional grants would be available. The proposal will be heard in the budget conference committee in June.

The committee also adopted budget language that would require CDFA to issue a report on recommendations for any legislation or budgetary actions that would identify and maximize state and federal funding opportunities for dairy environmental enhancement programs. IEUA will discuss these developments at its digester conference.

Legislative Highlights

- SB 1272 (Ortiz), failed passage in the Senate Appropriations Committee. The bill would have turned back the compensation for directors to mid-1980 levels and restricted the number of meetings each month that would qualify for compensation. It would have also reduced health care benefits for board members.
- AB 2298 (Plescia) passed the Assembly Floor, with a number of local legislators voting in support of the measure, including Assemblymember Gloria Negrete-McLeod. The bill requires landscape water meters on very large commercial landscapes by the year 2012.

Inland Empire Utilities Agency

Positions/Position Recommendations

April 30, 2004

Bill # / Title	Summary	Position	Status
Desalination			
SB 318 (Alpert) UWMP: Desal	Requires UWMP to describe the opportunities for development of desalinated water, including brackish water. SCWA is the sponsor. Possible vehicle for desalination funding (Chap.6 \$50 M) in Proposition 50. Careful watch.	Support (03)	Assembly Inactive
ERAF/Local Government			
SB 407 (Torlakson) Local district financing	Would have redirected property tax revenue from Monte Vista Water District and at least one other SAWPA member agency. IEUA and SAWPA helped defeat this measure on the Assembly Floor in 2003.	Oppose (03)	Assembly Inactive
SB 1387 (Romero) Sanitation agencies	Requires a sanitation agency with a jurisdiction over 5 million (Los Angeles County) to get a vote of the people before developing or improving land for the purposes of creating or expanding a materials recycling center, including biosolids. The bill specifically targets a project in Senator Romero's district (Puente Hills MRF). Cities and counties are raising concerns that the bill usurps their decision-making authority. IEUA is opposed because the measure is bad precedent and, if expanded to areas with lower populations, could be applicable to IEUA's co-composting facilities. Initial policy hearing was cancelled on the bill. They will need a rule waiver to proceed.	Oppose (3/04)	Senate Local Gov.

<p>SB 1272 (Ortiz) Special District Audits</p>	<p>Comprehensive special district reform measure.</p> <ul style="list-style-type: none"> • Prohibits any member of the governing board of a special district from having any interest, financial or otherwise, or engage in any activity that is in conflict with the proper discharge of his or her duties. Any violation would be a new crime. • Requires legal and ethical orientation sessions for board members. • Establishes whistle-blower protections for board member or employees. • Requires that a meeting be noticed to the public if compensation is allowed. • Requires that for board members who first take office after 2005, no life insurance, health care or retirement benefits be provided. <p>This bill is largely the result of the Sacramento Suburban Water District scandal. Author indicated she would make some changes in the bill, but was unwilling to address the meeting compensation issue. It failed passage in Senate Approps. Senator Burton did not support the bill.</p>	<p>Oppose unless amended (5/04)</p>	<p>Senate Approps.</p>
<p>Water Quality</p>			
<p>AB 2528 (Lowenthal) Action Level</p>	<p>IEUA and MWD heavily involved in the writing and placement of the bill. Deletes the term "action level." Replaces the term with "notification level" and "response level." Requires DHS to determine if a contaminate warrants just notification to the public by the local agencies, or further remediation actions. This is currently done administratively by DHS and the bill makes no changes to their determination process. Applies these terms to all sources of drinking water, including surface water. Action levels currently only apply to groundwater.</p> <p>ACWA's board voted to oppose the measure because it doesn't believe the bill should apply to surface water, and the board believes that the notification provisions will not be useful to local government. Despite ACWA's opposition, the bill passed off the Assembly Floor on a 72-0 vote.</p>	<p>Support (1/04)</p>	<p>Senate Enviro. Quality</p>

Water Supply/Watersheds

<p>AB 2690 (Hancock) Watershed: prevailing wage</p>	<p>As recently amended, would exempt from the definition of "public works" any work that is performed by a volunteer, a volunteer coordinator, or by members of the California Conservation Corps or of certified Community Conservation Corps. This</p>	<p>Support (3/04)</p>	<p>Senate</p>
<p>SB 1155 (Machado) Cal-FED</p>	<p>As amended May 20, would impose water quality requirements that are now the joint responsibility of the Central Valley Project and the State Water Project solely on the State Water Project.</p>	<p>Oppose unless amended (3/04)</p>	<p>Assembly</p>

Water Conservation

<p>AB 2299 (Plescia) Dishwasher water Efficiency</p>	<p>Requires the CEC by 2006 to revise regulations for commercial dishwashing pre-rinse spray values to use less than 1.6 gallons of water per minutes. San Diego County Water Authority is the sponsor. The bill will need a rule waiver to move.</p>	<p>Support (3/04)</p>	<p>Assembly Natural Resources</p>
<p>AB 2298 (Plescia) Landscape water metering</p>	<p>Requires that by 2006 a public water system serving 3,000 or more connections install or require the installation of water meters or submeters for irrigated landscapes of more than 10,000 square feet. Does not apply to single- family dwellings. By 2007 this information shall be used in whole or in part for billing purposes. Sponsors of the bill are the Landscape Contractors and NRDC.</p> <p>The sponsors including IEUA language in the bill that is intended to make the program more compatible for the delivery of recycled water.</p>	<p>Support (3/04)</p>	<p>Senate Ag. and Water Resources</p>
<p>AB 2572 (Kehoe) Water Meters</p>	<p>With certain exceptions, requires the installation of water meters on all service connections by 2025. Supersedes local ordinances prohibiting the installation of water meters. IEUA supported a similar bill last year, which was stopped by Appropriations Chair Steinberg from Sacramento. The City of Sacramento continues to oppose water meters. Steinberg is no longer chair of Appropriations, so the City's concerns should not pose as great of an obstacle for the bill.</p>	<p>Support (3/04)</p>	<p>Senate</p>

Proposition 50

SB 1132 (Brulte)
Prop. 50, Chap. 8
Fire Impacts

As amended 4/12, gives preference for Chapter 8 funds to projects designed to restore, repair, rehabilitate or replace water management projects damaged or destroyed as a consequence of fires or other natural disasters. Recent amendments made clear that more than just flood control projects were eligible for funding. SAWPA in support of the bill. The bill failed passage in a policy committee, but it may be revived as part of the budget proposal.

Support
(4/04)

Senate
Enviro.
Quality

Inland Empire Utilities Agency

WATCH

("C" lowest level, "B" mid level, "A" high level watch)

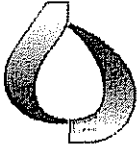
May 27, 2004

Bill # / Title	Summary	Watch Level	Status
Propositions 50 and 40			
AB 107 (Corbett) Prop. 50 Chapter 3	Prop. 50 funding vehicle for Chapter 3 funds. Some components of this bill were placed into the omnibus Prop. 50 trailer bill, AB 1747 which was chaptered.	B	Senate Ag. Water & Resources
AB 1300 (Laird) Prop. 50: Reporting	Requires Secretary of Resources to prepare annual report on Prop. 50 expenditures.	C	Senate Ag. Water & Resources
SB 909 (Machado) Water Grant	Allows grants of state bond funds to be made to public water utilities and mutual water companies.	B	Assembly W.P.W.
SB 1318 (Burton) Prop. 50: Chap. 10	Appropriates an unspecified amount from Chap. 10 (Coastal watershed account to Coastal Conservancy) to the "Ocean Protection Council" created by another Burton bill (SB 1319). Also requires that all SWRCB Prop. 50 funds comply with coastal watershed legislation authored by Assemblywoman Pavley in 2002.	B	Assembly
Groundwater			
SB 543 (Machado) Groundwater	Sponsored by a southern California private water company, the bill appears to alter the water rights for those entities that are under order to clean up contamination. Watermaster helped secure amendments to clarify that the bill will not impact water rights in adjudicated basins.	A	Assembly Enviro. Safety & Toxic Materials
AB 2733 (Strickland) Ventura County Groundwater	Calleguas is the sponsor. The bill would exempt Ventura County from filing individual groundwater well reports to the SWRCB and paying the new fee of \$150 per well.	B	Senate Water Resources
Water Quality/Penalties and Fees			
AB 1020 (Laird)	Authorizes a public water system to bring civil action against any RP for the	A	Senate

Contaminates: Civil Action	presence of any contaminate in surface or groundwater supplies utilized by the water district. Recoverable costs include investigation, replacement water and attorney's fees.		Inactive
AB 1353 (Matthews) Waste Discharge	States that annual discharge fees cannot be charged if it can demonstrated that pollution is not entering waters of the state. Applies to waivers only anticipating that waivers will be subject in the future to an annual fee. Sponsored by the Wine Institute.	C	Senate Enviro. Quality
AB 2342 (Jackson) PHGs	When reviewing a PHG every five years the state should take into account the health impacts that contaminates may have on subpopulations, including children and infants.	B	Senate Enviro. Quality
AB 2884 (Calderon) RWRCB liability exemption	Requires RWQCB to abate a polluting condition when a local authority cannot complete the abatement. Makes the owner of a polluting property liable in a civil action for all reasonable costs incurred by an abating entity. Santa Clara Valley Water District is the sponsor. Will need a rule waiver to proceed.	A	Assembly Judiciary
SB 1477 (Sher) SWRCB: Wetlands	Requires that SWRCB create a new statewide permitting program under Porter-Cologne, for all wetlands impacts, whether or not the activity is regulated by another state agency and/or the Corps. Expands SWRCB jurisdiction into "riparian area" as defined to be more than 100 meters from any water body. RLC is opposed.	B	Assembly
Water Conservation			
AB 2470 (Kehoe) Water Conservation Program	Requires that water conservation material be made available on the sale of residential development. The water district would provide the material and could raise rates to offset the cost, pursuant to current law.	A	Senate Ag. Water Resources
AB 2717 (Laird) CUWCC	San Diego Water Authority sponsored bill. Requests the California Urban Water Conservation Council convene a stakeholders group to evaluate and recommend proposals for improving the efficiency of water use in new and existing urban irrigated landscapes in the state. The CUWCC would report to the Legislature by 2005 and pay their own expenses.	B	Senate
SB 1909 (Ag. Committee)	Changes the term "reclaimed water" to "recycled water" in the code. Possible spot bill.	C	Assembly

Special Districts/Property Tax Revenue			
SB 1310 (Johnson) MWD Complaints Member Agencies	Current law requires MWD to submit an annual report to the Legislature detailing member agency complaints of unethical, unauthorized or illegal activities by MWD against any member agency or the public. This bill extends this reporting requirement from 2005 to 2010.	B	Assembly
SB 1351 (Soto) Revolving Door	Prohibits "revolving door" activities between formal local officials and the agency where they used to hold office. City of Ontario scandal is the likely reason for the bill.	C	Assembly
SB 1774 (Johnson) Property tax restructure	Restructures the flow of property/sales/"car" tax revenues to local governments. CSAC supporting and opposed by the cities. One of several possible vehicles for local government finance reform. SAWPA is reviewing for impact to region.	A	Assembly
Chino Basin/Santa Ana Region			
AB 496 (Correa) Santa Ana Conservancy	Establishes the Santa Ana River Conservancy by 2012. The conservancy would acquire lands within ½ mile on either side of the river. Establishes a 13-member board. One member would be designated from SAWPA. Last year OCWD opposed the bill and SAWPA and IEUA remained neutral.	A	Senate Natural Resources & Water
AB 2063 (Negrete- McLeod) Chino Ag. Preserve	Allows the County of San Bernardino to sell property within the Chino Agricultural Preserve that was purchased with Prop. 70 funds, provided the county uses all the proceeds from the sale only for the acquisition of replacement land within the Chino Ag. Preserve. San Bernardino County is the sponsor. MPC is in support.	B	Senate Judiciary 6/8
AB 2212 (Runner) Dairy relocation	Makes changes to the redevelopment law to promote the relocation of dairies from Chino Basin to Harper Dry Lake. MPC is in support.	C	Senate Local Gov. 6/16
AB 2439 (Haynes) Elsinor Valley Municipal Water D.	Allows recreational use with body contact in a reservoir within the district.	C	Senate Enviro. Quality
Cal-Fed/Water Transfers			
SB 1374 (Machado) Transfers Third Party Impacts	Requires SWRCB to consider a number of factors before approving a long-term water transfer that will result in substantial negative third party impacts, including negative environmental and economic impacts.	B	Assembly

Miscellaneous			
AB 1522 (Parra) Water rights	Specifies under what circumstances a water rights permits may be revoked, including that the permittee is no longer using the water beneficially in accordance with the permit. States that when a water rights permit is revoked without a hearing, the permittee may file with the SWRCB a request to set aside the revocation with 30 days of the order.	B	Senate Ag. and Water Resources 6/1
AB 2141 Longville (Floodplain Management)	Creates that Alluvial Fan Task Force, to be established by DWR. Would require the task force to prepare a model ordinance on alluvial fan flood plain management. San Bernardino County, agricultural groups and local governments are specifically included in the task force.	B	Senate
AB 2311 (Jackson) Green Buildings	Calls upon the state to develop a sustainable, or "green" building goal requiring formulation of a defined strategy and annual reporting requirement to the Legislature on the implementation of that strategy.	B	Senate
SB 1089 (Johnson) SWPC Fund	Requires the State Water Resources Control Board to give preference, to the maximum extent possible, to capital improvement projects undertaken by a municipality that is subject to an administrative compliance order relating to a sanitary sewer collection system.	B	Assembly
SB 1479 (Sher) RWQCB	Reduces membership from nine members to five. SWRCB sponsored.	C	Assembly Water Parks and Wildlife 6/22
Energy			
AB 428 (Richman) Energy Market restructuring	Energy coalition is following the bill looking for opportunities to expand Community Choice Aggregation and to clarify and make permanent the existing net metering program for biogas energy projects.	C	Senate Energy
AB 2006 (Nunez) Energy Market restructuring	Same as above	C	Assembly Floor
SB 1478 (Sher) Renewables	Speeds up and increases the renewables portfolio standards.	C	Assembly



Inland Empire
UTILITIES AGENCY

Date: June 16, 2004
To: Honorable Board of Directors
Through: Public and Legislative Affairs Committee (6/9/04)
From: Richard W. Atwater
Chief Executive Officer/General Manager
Submitted by: Martha Davis
Executive Manager of Policy Development
Subject: May Legislative Report from Dolphin Group

RECOMMENDATION

This is an informational item regarding the May legislative report from Dolphin Group.

BACKGROUND

Michael Boccodoro provides a monthly report on his activities on behalf of the Chino Basin/Optimum Basin Management Program Coalition.

PRIOR BOARD ACTION

None.

IMPACT ON BUDGET

None.

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Chino Basin / OBMP Coalition

Status Report – May 2004

ENERGY/REGULATORY

Community Choice Aggregation

The proceeding to establish the rules for Community Choice Aggregation continues at the CPUC. Various parties have offered testimony on the application and implementation of "exit fees". A draft decision from the Administrative Law Judge on these Phase I issues is expected by mid-summer.

Three major issues are being currently debated:

1. Will "exit fees" be capped (likely at 2.7 cents/kwh) or be allowed to fluctuate with the market to reflect real costs? Uncapped rates will probably be higher than 2.7 cents in the first few years than decrease significantly thereafter. Capped rates would remain at 2.7 cents until the shortfall created in early years is fully paid off.
2. How will CCA be implemented? As a pilot program within each CCA area or as an immediate implementation?
3. How will costs to the implementation be paid? By the CCA customers or by the IOU?

The Dolphin Group continues to monitor this proceeding. DGI will also be holding a CCA discussion workshop for special districts in early June with the Kings River Conservation District, a special district heavily involved in CCA.

Water District Self-Generation (Implementation of SB 1755)

Since the prehearing conference in January, the Administrative Law Judge in this proceeding has yet to issue a further ruling or direction to participants. DGI has contacted the ALJ, and she has indicated that it is unlikely that this proceeding will progress soon. Resolution of this proceeding is unlikely before the end of the year.

The Dolphin Group will continue to follow this proceeding and offer further testimony as directed by the Commission. We may also want to consider having Senator Soto, the author of SB 1755, send a letter following up with the CPUC to expedite the process.

Biogas Net Metering

Dolphin Group staff recently conducted a conference call with IEUA engineers to identify problems with implementation of the net metering program. DGI has initiated communication with Edison to resolve problems and begin discussing program expansion.

SIG has requested a meeting with Edison to follow-up on IEUA's recent net metering application. The meeting will be focused on resolving any outstanding issues that may be related to the application.

DGI will also be working in the coming year to develop legislation to expand the program beyond the January 2006 sunset date, as well as increase the capacity limit to participate in the program.

LEGISLATIVE

Energy Market Restructuring

AB 2006 (Nunez D-Los Angeles) has passed out of Assembly Appropriations Committee on a 16-4 vote. It is likely that the legislation will pass out of the Assembly soon. The legislation deadline for bills to be passed by house of origin is Friday, May 28th.

AB 2006 has been amended only once since its introduction, mainly to affirm current regulatory practices. The various concerns of consumer and energy groups have yet to be included in a revision of the legislation.

More importantly, the Schwarzenegger Administration has strongly suggested that they wish to pursue future regulation primarily through the CPUC as opposed to the Legislature. Schwarzenegger has indicated support for creating a core/noncore model, but has not yet discussed the details of his proposal with the CPUC. As a result, the future progress of AB 2006 appears to be in question.

SPECIAL DISTRICT REFORM

SB 1272 (Ortiz D-Sacramento) failed in the Senate Appropriations Committee on a 4-5 vote. Reconsideration was granted, and the legislation will be amended again and could be heard in the future only if rule waivers are granted for the legislative deadlines.

The bill was amended shortly before it was heard in committee. The amendments included:

- Limiting the bill to enterprise special districts
- Deleting the "whistleblower" protections
- Raising the meeting stipend to \$150
- Providing for an increase in the stipend not to exceed the CPI or COLA

BUDGET

Governor Schwarzenegger presented his "May Revise" of the California State budget on May 13th. The short-term outlook was improved over the Governor's January Proposal, although structural gaps in the budget will reappear in coming years. The Legislative Analyst Office estimates a shortfall of \$8 billion would reappear in 2006-07 and would persist in coming years at about \$6.5 billion without additional revenues or spending cuts.

The May Revise depends on a combination of additional revenues and "side deals" with various stakeholders to balance the budget.

Additional revenues included \$1.3 billion raised from the tax amnesty program, \$1.3 billion from added sales and income tax revenues, and \$1 billion accrual accounting changes. The Governor also proposed using \$2 billion of the Economic Recovery Bonds approved by voters in March to balance the current year budget.

The Governor has also negotiated a number of "side deals" with stakeholders exchanging short-term budget cuts in exchange for long-term commitments to protect and increase future expenditures. The Administration has negotiated a temporary suspension of Proposition 98 diverting \$2 billion from education, while vowing to return the money in future budgets.

A deal was also struck with local governments, described in detail below.

GOVERNOR'S LOCAL GOVERNMENT PROPOSAL

Governor Schwarzenegger negotiated a deal with local government groups pursuing a constitutional amendment seeking to protect local revenues. In exchange for a \$1.3 billion transfer to the state in each of the next two years, the administration will support a constitutional amendment on the November ballot to limit similar transfers in future years.

Under the proposal, enterprise special districts will be expected to shift \$225 million per year, contributing roughly 40% of collected property tax revenues.

The Legislative Analyst Office released an assessment of the Governor's local government proposal on May 24, 2004. The LAO recommends ongoing shifts from enterprise special districts of \$220 million, and allowing county Board of Supervisors to allocate the shifts based on the ability of the districts to raise user fees to "back fill" the shifts to the state. The report also recommended eliminating city and county shifts, causing the majority of local government shifts to come from special districts. The political jockeying around the enterprise special district revenue shift is picking up as final budget discussions and negotiations commence.

Allocation of \$1.3 Billion Revenue Shift

Governor's Proposal

Agencies—Amount	Allocation
Cities— \$350 Million	<ul style="list-style-type: none"> • One-third of the \$350 million reflects each city's proportionate share of statewide city vehicle license fee (VLF) revenues. Another one-third reflects each city's share of property taxes. The final one-third reflects each city's share of sales taxes. • Each city's reduction must be at least 2 percent—and not more than 4 percent—of the city's general-purpose revenues.
Counties— \$350 Million	<ul style="list-style-type: none"> • Each county's reduction reflects its proportionate share of 2003-04 county nonrealignment VLF. Three small counties (Trinity, Del Norte, and Lassen) are subject to a smaller reduction. In general, the county allocation formula is similar to imposing reductions on a population basis.
Independent Special Districts— \$350 Million	<ul style="list-style-type: none"> • Enterprise special districts (largely water and waste disposal districts) shift 40 percent of their property taxes, up to a maximum of \$225 million. • Nonenterprise special districts—with the exception of fire, police, healthcare, and library districts—shift 25 percent of their property taxes, up to a maximum of \$125 million. • Fire, police, healthcare, and library districts are exempt from the shift. • If this methodology fails to generate \$350 million statewide, the percentage reductions are increased proportionately.
Redevelopment Agencies— \$250 Million	<ul style="list-style-type: none"> • Half of the amount (\$125 million) is allocated among redevelopment agencies based on their relative share of gross tax increment revenues. The other half is allocated based on tax increment net of revenues "passed-through" to other agencies. This formula is similar to the ERAF methodology in current law. • If an agency fails to make its payment to ERAF, the city or county sponsoring agency makes the payment.



Date: June 25, 2004

To: The Honorable Board of Directors

From: Richard W. Atwater
Chief Executive Officer/General Manager

Submitted by: Sondra Elrod
Public Information Officer

Subject: Public Outreach and Communications

RECOMMENDATION

This is an informational item regarding a status update on public outreach and communications.

BACKGROUND

Outreach

- Chino Dairy Festival
June 5 – 9am to 4pm
- Fontana Environmental Appreciation Day
Mary Vagle Nature Center 11am to 1pm

Tours

- Arizona United Dairymen toured RP-5 Renewable Energy Project
May 24

Cerrell and Associates

- Finalized IEUA information/presentation boards to be displayed at IEUA facilities, SAWPA, etc.
- Preparing Landscape and Stormwater Brochure.
- RP-Facility's Brochures.
- Provided general media relation support.

Calendar of Upcoming Events

- MWD/IEUA California Discovery Garden at the Maloof Foundation.
June 19 11am to 1pm
- IEUA Leadership Breakfast

June 23 7:30am

- IEUA Commercial Landscape Classes
July 7, 14, 21, 28
- LEED celebration (To Be Determined)

PRIOR BOARD ACTION

None

IMPACT ON BUDGET

None



CHINO BASIN WATERMASTER

June 24, 2004

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Watermaster Board Meeting

IV. INFORMATION

1. Black & Veatch Technical Memorandum – Agricultural Land Conversion Study

BLACK & VEATCH

TECHNICAL MEMORANDUM—DRAFT

Chino Basin Watermaster
Agricultural Land Conversion Study

B&V Project No. 136376
April 6, 2004

To: John Rossi, Chino Basin Watermaster

From: Dave Argo, Project Manager

Prepared by: Andrew Lazenby, P.E.
Wendy Martin

Reviewed by: Dave Argo, P.E.

The purpose of this memorandum is to estimate the reduction in agricultural groundwater production within the Chino Basin (Basin) over the next ten years and to use this estimate to reevaluate the capacities of the Chino Basin Desalters (Desalters) to maintain hydraulic control within the Basin. This report provides an overview of the Basin, Desalters, historical land use within the Basin, historical agricultural groundwater production within the Basin, and planned Desalter capacities. Agricultural and Desalter groundwater production rates are compared. Some general conclusions about the expansion schedule for the Desalters are provided.

1.0 INTRODUCTION

This section provides background information on the Basin, presents an overview of study methodology, and lists acronyms used and references consulted.

1.1 Background Information

1.1.1 Chino Basin

The Chino Basin consists of approximately 235 square miles of the upper Santa Ana River watershed. The Basin lies within the Counties of San Bernardino, Riverside and Los Angeles and includes some or all of the Cities of Chino, Chino Hills, Fontana, Montclair, Norco, Ontario, Pomona, Rancho Cucamonga, Upland, and several other communities. Cities and other water supply entities produce groundwater for all or part of their municipal and industrial supplies. Overall groundwater production data for the Basin is categorized into three pools: (1) the overlying agricultural pool, (2) the overlying non-agricultural pool, representing industries, and (3) the appropriative pool, representing cities, water districts, and water companies. During the period of 1960 through 1998, land use conversions in the southern half of the Basin were predominantly from irrigated agriculture to dairies. Agriculture, in general, has declined substantially in recent years and is projected to continue to decline [CBWM, 1999]. The Desalters, located in the southern portion of the Basin, provide a hydraulic balance from this decrease in agricultural production.

1.1.2 Chino Basin Desalters

The OBMP Phase I Report developed a preliminary Basin groundwater desalting plan based on estimated reduction in agricultural production. Since this plan was developed, the Desalter contracted deliveries and construction schedules have been refined. Table 1-1 presents an updated *groundwater production* schedule for the Chino Basin Desalters. (Treated water deliveries from the Desalters can be estimated assuming an 82 percent process recovery. The remaining brine flow is conveyed to the local Santa Ana Regional Interceptor (SARI) for ultimate discharge to the ocean). As shown in the table, an estimated 53,800 acre-feet per year (AFY) total Basin desalting will be developed through the year 2020.

The Chino I Desalter was the first phase in the regional desalting program. It began delivering water to customers in 2001 and has a current groundwater production capacity of 11,200 AFY (10.0 million gallons per day [mgd]). The second phase includes expansion of the Chino I Desalter and construction of a new Chino II Desalter. The Chino I Desalter expansion will increase its groundwater production capacity to 17,300 AFY (15.5 mgd) and the Chino II Desalter will have a groundwater production capacity of 12,700 AFY (11.3 mgd). It is anticipated that the Chino I Desalter expansion and Chino II Desalter facilities will be constructed by the years 2005 and 2006, respectively. The third phase includes expansion of the Chino II Desalter and construction of a new Chino III Desalter. The Chino II Desalter expansion will increase its groundwater production capacity to 20,700 AFY (18.4 mgd) and the Chino III Desalter will have a groundwater production capacity of 15,800 AFY (14.1 mgd). It is estimated that the Chino II Desalter expansion and Chino III Desalter facilities will be constructed by the year 2010.

1.2 Study Methodology

An eight step study methodology was developed for the memorandum and is listed in Table 1-2. The first two steps involved gathering information regarding recent land conversions. Steps three through five involved predictions of agricultural and Desalter production. Step six included a comparison of the predictions and steps seven and eight included preparation of the technical memorandum.

**Table 1-1
Chino Basin Desalters Groundwater Production Schedule^{(1) (2)}**

Year	Groundwater Production Capacity							
	Chino I Desalter		Chino II Desalter		Chino III Desalter		Total	
	mgd	AFY*	mgd	AFY	mgd	AFY	mgd	AFY
2000	0.0	0	0.0	0	0.0	0	0.0	0
2001	10.0	11,200	0.0	0	0.0	0	10.0	11,200
2002	10.0	11,200	0.0	0	0.0	0	10.0	11,200
2003	10.0	11,200	0.0	0	0.0	0	10.0	11,200
2004	10.0	11,200	0.0	0	0.0	0	10.0	11,200
2005	15.4	17,300	0.0	0	0.0	0	15.4	17,300
2006	15.4	17,300	11.3	12,700	0.0	0	26.8	30,000
2007	15.4	17,300	11.3	12,700	0.0	0	26.8	30,000
2008	15.4	17,300	11.3	12,700	0.0	0	26.8	30,000
2009	15.4	17,300	11.3	12,700	0.0	0	26.8	30,000
2010	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2011	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2012	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2013	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2014	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2015	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2016	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2017	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2018	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2019	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800
2020	15.4	17,300	18.5	20,700	14.1	15,800	48.0	53,800

(1) Treated water production/deliveries can be estimated assuming an 82 percent process recovery.

(2) Data presented are based on Table 4-9 in OBMP Phase I Report and current construction/delivery schedule for the Desalters.

**Table 1-2
Study Methodology**

Step	Task Description
1	Contact two realtors specializing in sales of dairy properties
2	Review sales over past two years
3	Make projection of sales into next ten years
4	Estimate loss of agricultural pumping
5	Estimate pumping demands from Chino I Desalter expansion and Chino II Desalters
6	Compare change in pumping demands of agricultural producers and Desalters
7	Provide findings in memorandum
8	Provide findings to WE, Inc. for hydraulic control considerations

1.3 Abbreviations and Acronyms

The following abbreviations and acronyms are used in this memorandum.

AF	acre-feet
AFY	acre-feet per year
Basin	Chino Basin
CBWM	Chino Basin Watermaster
Desalters	Chino Basin Desalters
FMMP	Farmland Mapping and Monitoring Program
FY	Fiscal Year
JCSD	Jurupa Community Services District
mgd	million gallons per day
OBMP	Optimum Basin Management Program

1.4 References

The following references were used for this memorandum.

McCune & Associates, Personal Communication. January 2004.

Milk Producers Council, Nathan DeBoom, Personal Communication, January 2004.

19th through 26th Annual Reports – Case No. RCV 51010, Chino Basin Municipal Water District v. City of Chino, ET.AL, Chino Basin Watermaster, 1999-2004.

Optimum Basin Management Program - Phase I Report, prepared for Chino Basin Watermaster, Wildermuth Environmental Inc., August 19, 1999.

California Farmland Conversion Report – 1998-2002, California Department of Conservation, Division of Land Resource Protection, Farmland Mapping and Monitoring Program, December 2002.

2.0 CHINO BASIN LAND USE

This section presents historical land uses and predicts future land conversions based on information from: (1) the Optimum Basin Management Program (OBMP) Phase I Report [CBWM, 1999], (2) annual Watermaster assessment packages, (3) conversations with Basin realtors, and (4) the California Department of Conservation, Division of Land Resource Protection, Farmland Mapping and Monitoring Program (FMMP).

2.1 OBMP Phase I Report (1933 to 1993)

Land use within the Basin has shifted from predominantly agricultural to urban. Table 2-1 lists the land uses in the Basin between 1933 and 1993 as presented in the OBMP Phase I Report [CBWM, 1999]. As listed in the table, agricultural land use was at a high of 98,044 acres in 1957. Between 1957 and 1993 agricultural land use decreased by 69 percent to a low of 30,767

acres. In 1933, approximately 7,440 acres in the Basin were used for urban/industrial purposes. By 1993, urban land use had increased to 68,966 acres. Figure 2-1 shows the steady increase in urban land use from 1949 to 1993 and decrease in agricultural land use from 1957 to 1993, based on the information presented in Table 2-1.

**Table 2-1
Chino Basin Historical Land Use (1933 to 1993)⁽¹⁾**

Land Use	Year						
	1933 (acres)	1949 (acres)	1957 (acres)	1963 (acres)	1975 (acres)	1984 (acres)	1993 (acres)
Agricultural							
Non-irrigated Field Crops and Pasture	37,242	37,157	52,950	36,600	20,754	12,942	5,411
Irrigated Field Crops and Pasture	32,539	32,539	24,320	23,927	18,295	15,677	13,141
Irrigated and Non-Irrigated Citrus	15,866	15,866	9,464	4,303	1,947	865	0
Irrigated Vineyards	1,332	1,332	7,268	18,057	9,353	8,195	2,975
Non-irrigated Vineyards	94	94	79	0	0	0	1,629
Dairies and Feedlots	259	259	3,963	4,140	6,280	6,517	7,611
Total Agricultural	87,332	87,247	98,044	87,027	56,629	44,196	30,767
Urban/Industrial							
Urban Residential, Commercial, Industrial and Vacant	7,135	7,157	17,695	25,598	41,405	53,260	65,115
Special Impervious	305	305	305	314	309	1,839	3,851
Total Urban/Industrial	7,440	7,462	18,000	25,912	41,714	55,099	68,966
Other							
Native Vegetation	22,083	22,145	21,633	21,249	20,481	19,904	19,328
Total Other	22,083	22,145	21,633	21,249	20,481	19,904	19,328

(1) Data presented from Table 2-7 in OBMP [CBWM, 1999]

2.2 Assessment Package Agricultural Land Conversions (1994 to 2003)

Agricultural land conversions between 1994 and 2003 were obtained from the Watermaster assessment packages. The Watermaster issues assessment packages on an annual basis. The assessment packages provide details regarding the annual charges to Basin water producers based on production and summarize the cumulative Agricultural Pool water rights reallocated to the Appropriative Pool based on land conversions. Water producers in the Basin provide acreage of agricultural land conversions to the Watermaster annually to enable the Watermaster to complete the assessment. Groundwater pumping rights reallocated after the Peace Agreement, June 29, 2000, are equivalent to 2.0 AFY of water per acre of land converted.

**Figure 2-1
 Historical Land Use in the Chino Basin (1933 to 1993)**

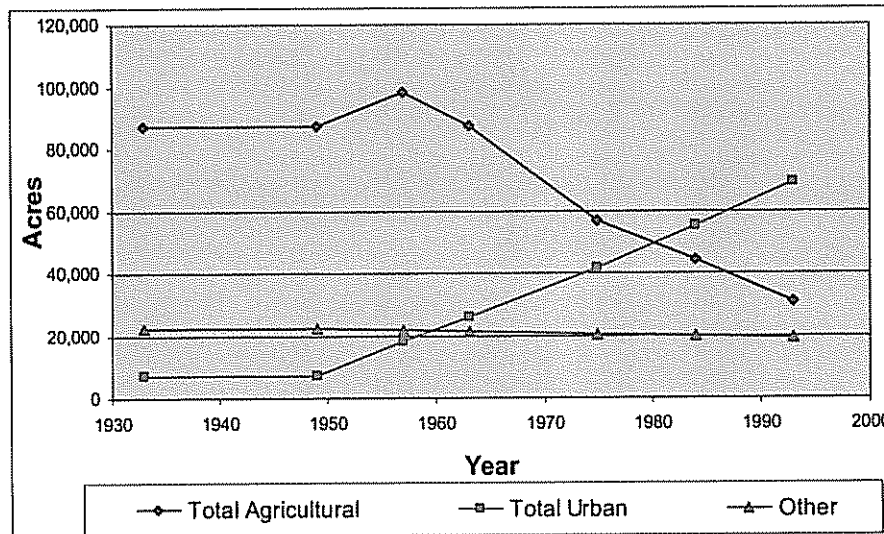


Table 2-2 lists land conversions for the 1994/1995 through 2002/2003 fiscal year (FY) assessments. Figure 2-2 shows the cumulative land conversions from 1994/1995 through 2002/2003 fiscal year for the water producers listed. Over the nine year period, approximately 10,152 acres of agricultural land was converted to non-agricultural land uses. This represents a decrease in agricultural land of 33 percent.

2.3 Conversations with Basin Realtors

Two real estate companies working in the Basin were contacted to determine the rate of agricultural land conversion over the last few years. Vander Dussen & Associates of Chino, California could not provide specific details on land sales within the Basin, but were able to refer us to Nathan DeBoom with the local Milk Producers Council. As listed in Table 2-1, dairies and feedlots utilized 7,611 acres in 1993, which was approximately 25 percent of the total agricultural land use. Mr. DeBoom said that dairy land in the Basin had been converted to non-agricultural uses at a rate of approximately two percent per year from 1993 to 2001. In 2002 and 2003, the rate had increased to approximately six percent per year. This recent increase in the rate of dairy land conversion was also seen around 1990 when real estate prices were increasing rapidly, as they are now.

The second real estate company contacted, McCune & Associates, was able to provide specific sales information for certain areas in the Chino Basin as listed in Table 2-3. Property values have dramatically increased over the past six years. Agricultural land was selling for approximately \$40,000 per acre six years ago and is currently selling for up to \$400,000 per acre. Eastvale is an 8,500 acre area in Riverside County that is served by the Jurupa Community Services District (JCSD). Approximately 90 percent of Eastvale has been sold for urban uses and will be developed within three years. Ninety eight percent of Eastvale has maps or plans for

urban development. JCSD has accounted for approximately 1,611 acres of land conversion in Eastvale through its assessment packages.

The Agricultural Preserve is an area that has been divided between the cities of Chino and Ontario and is being developed. The Chino Preserve is a 5,200 acre area, also known as Chino Sub-Area 2, which is served by the City of Chino. Currently, 50 percent of the area is in escrow or has been sold for non-agricultural uses and will be in construction within 12 months. Within six years, approximately 90 percent of the Chino Preserve land will be used for non-agricultural uses. None of the agricultural land conversion in the Chino Preserve has been accounted for through assessment packages. The City of Ontario has annexed 8,200 acres of the former Agricultural Preserve and this area is known as the New Model Colony. The City of Ontario has been slower to develop due to the existing land divisions. Approximately 15 percent of the New Model Colony is in escrow or has been sold for non-agricultural uses.

**Table 2-2
Chino Basin Agricultural Land Conversions (FY 94/95 to 02/03) ⁽¹⁾**

Producers	94/95 (acres)	95/96 (acres)	96/97 (acres)	97/98 (acres)	98/99 (acres)	99/00 (acres)	00/01 (acres)	01/02 (acres)	02/03 (acres)	Producer Totals
City of Chino	0	977	195	55	228	141	314	28	186	2,124
City of Chino Hills	0	408	73	72	117	23	0	0	35	728
Cucamonga County Water District (CCWD)	0	460	0	0	0	0	0	0	0	460
Fontana Water Co. (FWC)	0		0	0		0	417	0	0	417
Jurupa Community Services District (JCSD)	0	1,928	23	509	635	817	945	78	876	5,810
Monte Vista Water District (MVWD)	0		28	0	0	0	9	0	0	37
City of Ontario	0	419	30	59	19	0	39	0	9	576
Fiscal Year Total	0	4,192	350	694	999	980	1,724	106	1,106	10,152

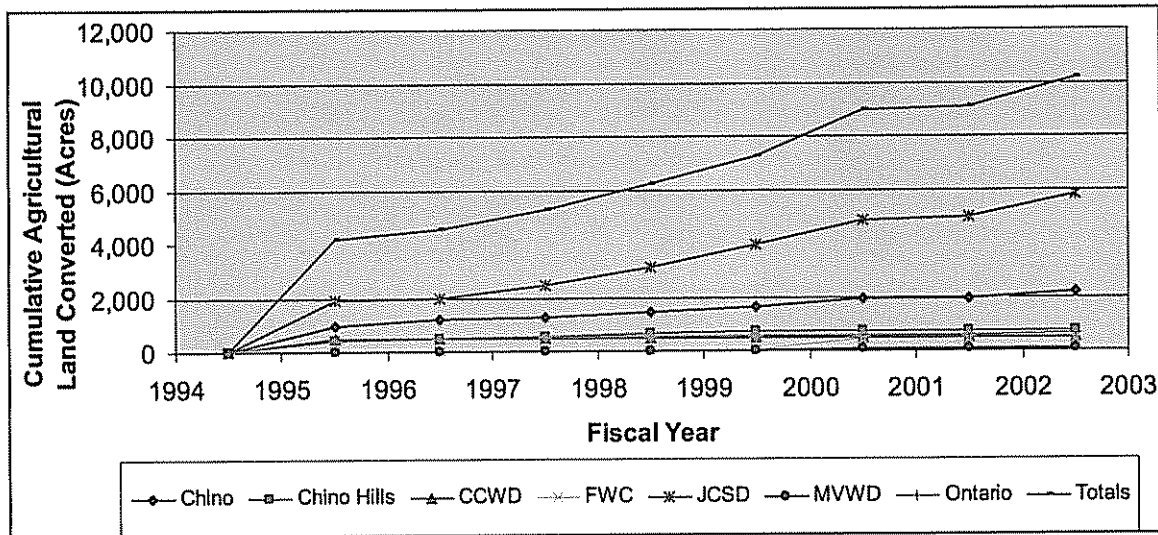
(1) Figures from Watermaster assessment packages for fiscal years 1994/1995 through 2003/2004

2.4 California Farmland Mapping and Monitoring Program

The Farmland Mapping and Monitoring Program (FMMP) is part of the State of California, Department of Conservation, Division of Land Resource Protection. The FMMP provides data for use in assessing present status, reviewing trends, and planning for the future of California's agricultural land resources. The FMMP produces Important Farmland Maps every two years based on air photos, local input, soil quality data, and current land use information. The FMMP

has been documenting changes in agricultural land use since 1984. There are eight Important Farmland Map categories and these are described in the Appendix.

**Figure 2-2
 Historical Land Use in the Chino Basin (FY 94/95 to 02/03)**



**Table 2-3⁽¹⁾
 Agricultural Land Conversion Estimates**

Development Area	Water Provider	Size (acres)	Estimated Conversion
Eastvale	JCSD	8,500	90% converted with in 3 years
The Preserve	Chino	5,200	50% converted with 1 year; 90% converted within 6 years
The Preserve	Ontario	8,200	15% land in escrow or sold

(1) Based on conversation with McCune& Associates 1/13/04

The FMMP provides custom mapping services to interested parties on an hourly fee basis. The FMMP was contacted to produce geographic information system (GIS) maps of the Basin and to provide categorized acreages of land use. Maps of the Basin were created for 1984 through 2002 on a bi-annual basis. The ten maps are shown in the Appendix with the descriptions of the eight Important Farmland Map categories. A small portion of the Basin lies in Los Angeles County. This area is completely developed [CBWM, 1999 Figure 2-37h] and was not mapped. Only data for Riverside County was available for 2002. Riverside County places dairy land in the category of Farmland of Local Importance. However, dairy land is placed into the Other Land category for San Bernardino County. Table 2-4 lists the FMMP categories and acreages between 1984 and 2000. For San Bernardino County, the land below Highway 60 categorized as Other Land is dairies. The acreage of this land is considered agricultural land in Table 2-4.

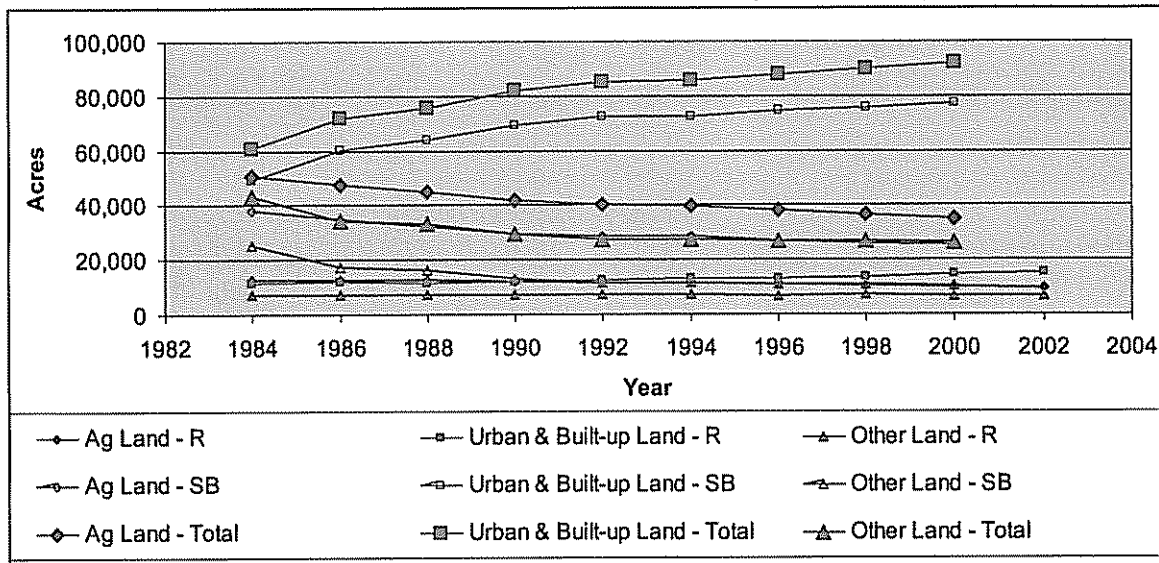
As listed in the table, agricultural land use was 50,973 acres in 1984. Between 1984 and 2000 agricultural land use decreased by 31 percent to 35,080 acres. In 1984, approximately 60,927 acres in San Bernardino and Riverside counties were urban and built-up land. By 2000, urban and built-up land use had increased to 92,133 acres. Figure 2-3 shows the steady increase in urban land use from 1984 to 2000 and decrease in agricultural land use over this time period, based on the information presented in Table 2-4.

Table 2-4
Chino Basin Historical Land Use (1984 to 2002)⁽¹⁾

Year	San Bernardino County			Riverside County			Total		
	Agricultural Land	Urban & Built-up Land	Other Land	Agricultural Land	Urban & Built-up Land	Other Land	Agricultural Land	Urban & Built-up Land	Other Land
1984	38,038	49,366	25,304	12,935	11,561	7,344	50,973	60,927	32,648
1986	34,966	60,151	17,591	12,599	12,045	7,197	47,564	72,196	24,787
1988	32,460	63,786	16,461	12,589	11,782	7,470	45,048	75,568	23,932
1990	29,888	69,460	13,360	12,136	12,334	7,371	42,024	81,794	20,731
1992	28,726	72,289	11,692	11,700	12,805	7,336	40,426	85,094	19,028
1994	28,346	72,732	11,739	11,444	13,206	7,176	39,789	85,938	18,915
1996	27,069	74,626	11,123	11,280	13,422	7,124	38,349	88,047	18,247
1998	26,037	75,861	10,919	10,687	13,897	7,241	36,724	89,758	18,160
2000	25,255	77,114	10,448	9,824	15,109	6,982	35,080	92,133	17,431
2002				9,277	15,455	7,094			

(1) Data obtained from FMMP

Figure 2-3
Historical Land Use in the Chino Basin (1984 to 2002)



2.5 Predicted Land Use

Based on historical land use in the Basin, the acreage of agricultural land is expected to continue to decrease until minimal, less than 500 acres, agricultural land remains. In order to predict future land use in the Basin, historical data was analyzed to estimate annual conversion rates. Rates were calculated assuming: (1) historical land use (1957 to 1993), (2) agricultural land conversions (FY 94/95 to 02/03), and (3) historical land use (1984 to 2000). Table 2-5 lists the conversion rates for the three analyses. Also listed in Table 2-5 are the regression (R^2) values for the conversion rates. The closer the R^2 value is to one, the higher the accuracy of the estimated conversion rate, based on the data used for analysis. These three conversion rates were used to predict years when agricultural land use would be minimal.

**Table 2-5
Predicted Rates of Land Conversion**

Analysis	Land Conversion Rate (acres/year)	R^2
(1) OBMP Phase I Report (1957 to 1993)	1,914	0.9857
(2) Watermaster Assessment Packages (FY 94/95 to 02/03)	1,099	0.9245
(3) FMMP (1984 to 2000)	931	0.9599

Prediction 1, based on historical land use, is shown on Figure 2-4. This prediction is based on data from 1957 through 1993, because the agricultural land use peaked in 1957 and decreased thereafter. Analysis 1 predicted an average conversion of 1,914 acres of agricultural land per year to non-agricultural uses. Based on this predicted conversion rate, agricultural land use is expected to be less than 500 acres in 2007.

Predictions 2a and 2b, based on the agricultural land conversions, are shown on Figure 2-5. Figure 2-5 shows and predicts cumulative acres converted. Analysis 2 predicted an average conversion of 1,099 acres of agricultural land per year to non-agricultural uses. This rate is 43 percent less than the first conversion rate predicted. The quantity of agricultural land available for conversion in 1994 was 30,767 acres, which is the quantity of agricultural land in 1993 from Table 2-1. However, based on the FMMP data in Table 2-4, the quantity of agricultural land available for conversion in 1994 was 39,789 acres. Based on the second predicted conversion rate, agricultural land use is expected to be less than 500 acres in 2020 based on Table 2-1 and in 2029 based on Table 2-4.

The predictions from McCune & Associates were incorporated into the second land conversion prediction, based on the assessment packages and are Predictions 3a and 3b. Figure 2-6 shows Prediction 2 and Predictions 3a and 3b. Based on the Prediction 3, the remaining agricultural land will be less than 500 acres in 2014 based on OBMP data and in 2022 based on FMMP data. The estimations from the Milk Producer's Council of a maximum annual six percent decrease in the number of cows leads to a minimal dairy land use in 2058. The Milk Producer's Council estimations did not include non-dairy agricultural land and have not been further analyzed.

Figure 2-4
Prediction 1: Agricultural Land Reduction (Based on 1957 to 1993)

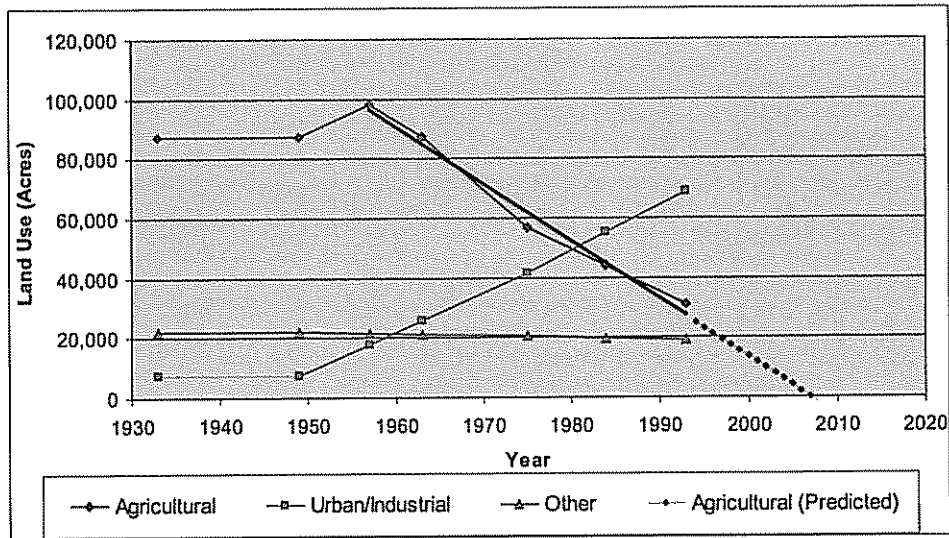


Figure 2-5
Prediction 2: Cumulative Agricultural Land Converted (Based on FY 94/95 to 02/03)

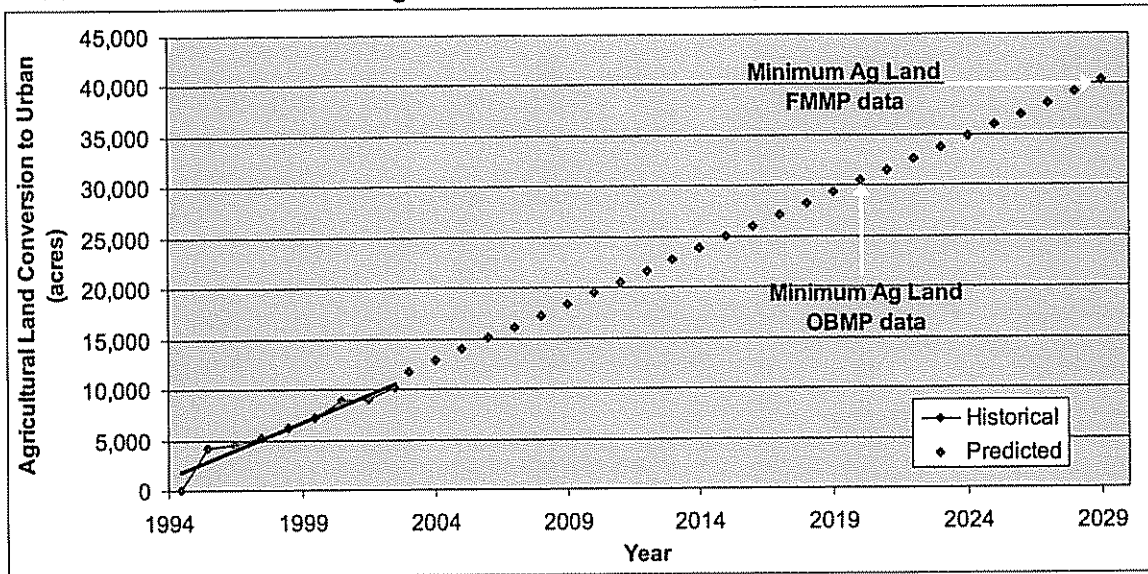
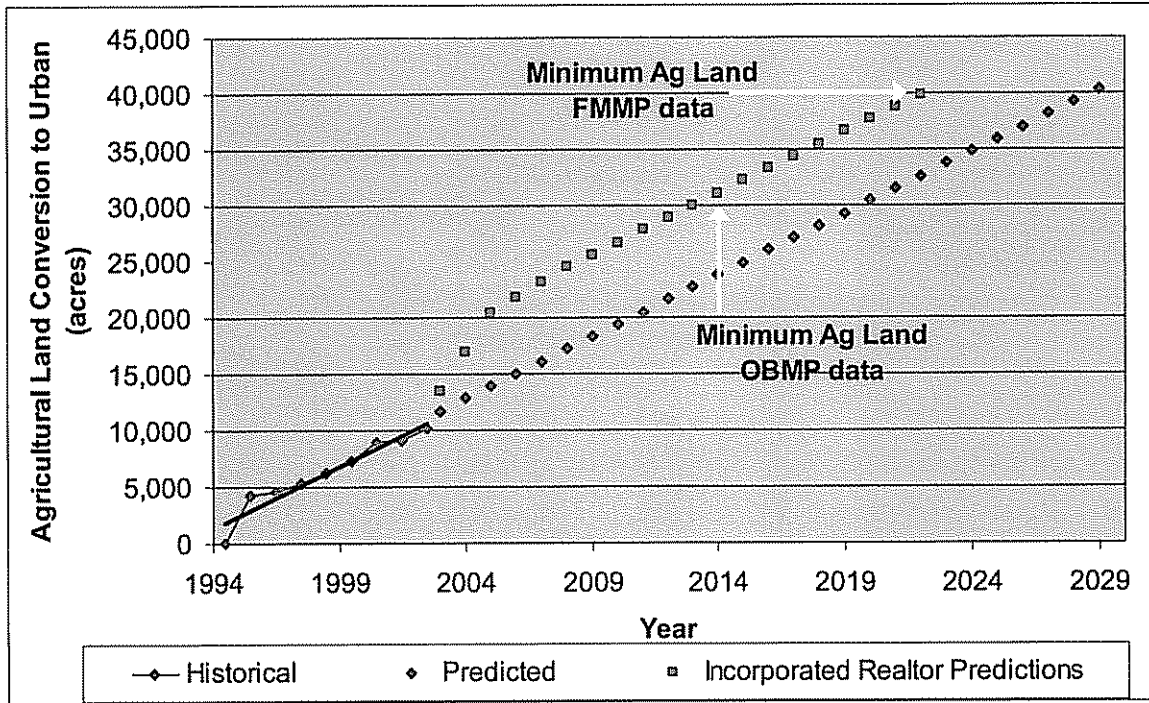


Figure 2-6
Prediction 3: Agricultural Land Converted
(Based on FY 94/95 to 02/03 and Realtor Estimates)



Prediction 4, based on historical land use from FMMP data, is shown on Figure 2-7. This prediction is based on data from 1984 through 2000. Analysis 3 predicted an average conversion of 913 acres of agricultural land per year to non-agricultural uses. This rate is 52 percent less than the first conversion rate predicted. Based on this predicted conversion rate, agricultural land use is expected to be less than 500 acres in 2037.

Table 2-6 provides a summary of the predicted years of minimal agricultural land use. The predicted years of minimal agricultural land use range from 2007 to 2037, with the average being the year 2022.

Figure 2-7
Prediction 4: Agricultural Land Reduction (Based on 1984 to 2002)

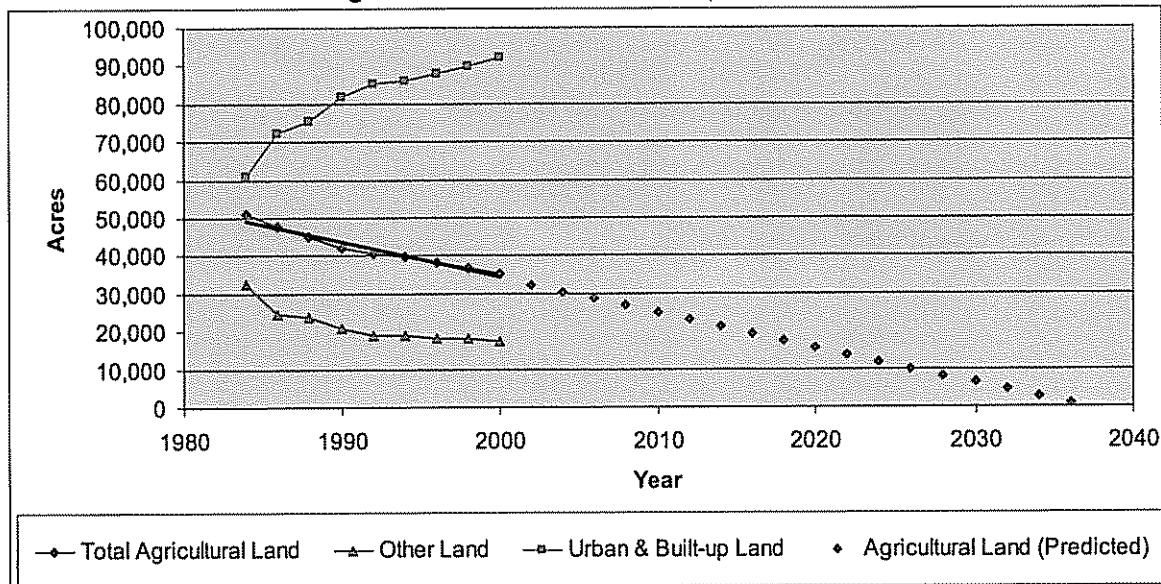


Table 2-6
Predicted Years of Minimal Agricultural Land Use

Prediction	Analysis	Basis	Year
1	1	OBMP data	2007
2a	2	Watermaster Assessment Package and OBMP data	2020
2b	2	Watermaster Assessment Package and FMMP data	2029
3a	2	Watermaster Assessment Package data, Realtor Predictions, and OBMP data	2014
3b	2	Watermaster Assessment Package data, Realtor Predictions, and FMMP data	2022
4	3	FMMP data	2037

3.0 AGRICULTURAL GROUNDWATER PRODUCTION

Agricultural groundwater production is reported in the annual assessment packages. Production data from 1975 through 2002 was analyzed to estimate production rates and predict when agricultural production would be less than 1,000 AFY.

3.1 Historical Production (1975 to 2002)

Groundwater production data for each of the three pools is shown on Figure 3-1. In 1975, the agricultural pool produced 96,567 acre-feet (AF). In 2002, the agricultural pool produced 39,494 AF, which was a reduction of 59 percent from 1975. Production rates were determined for the following three time periods: (1) 1975 through 2002, (2) 1993 to 2002, and (3) 1998 to 2002, and

are listed in Table 3-1. The R^2 value for the 1993 to 2002 production rate indicates an inaccurate interpolation.

Figure 3-1
Groundwater Production (1975 to 2002)

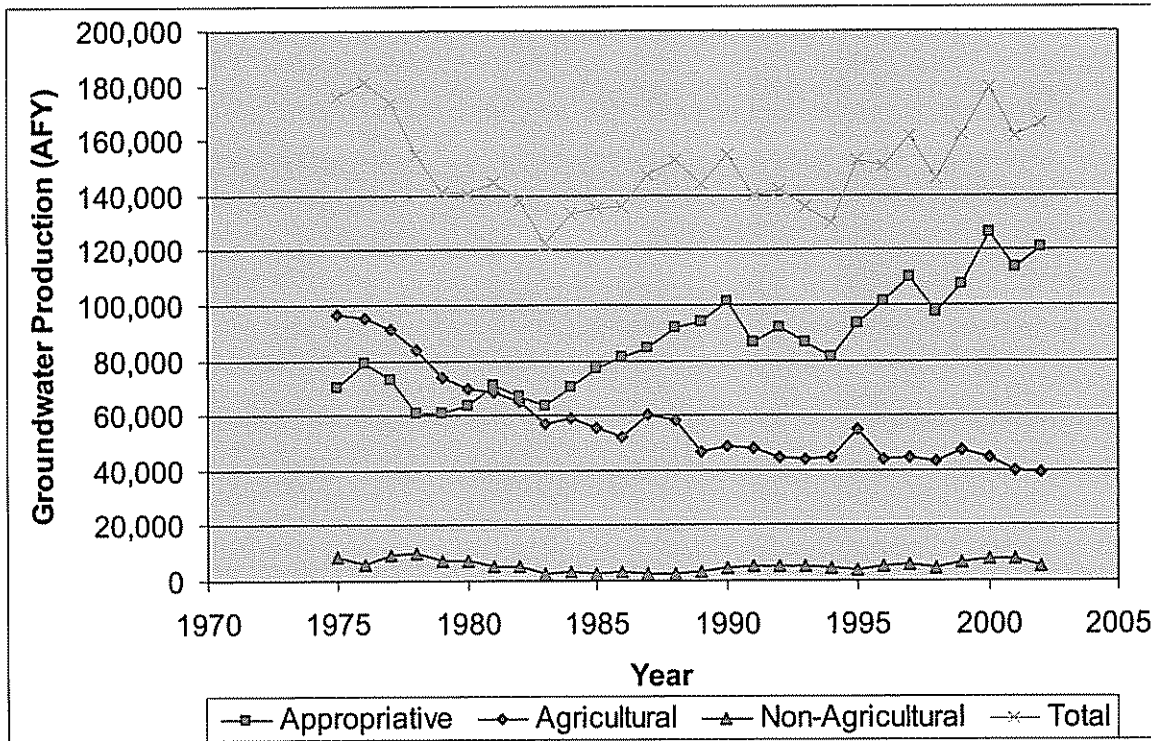


Table 3-1
Agricultural Production Rates

Analysis	Production Rate (AFY)	R^2
(1) 1975 to 2002	-1,827	0.7933
(2) 1993 to 2002	-695	0.2374
(3) 1998 to 2002	-1,529	0.5283

3.2 Predicted Production

The first and third production rates were used to predict when agricultural production would be less than 1,000 AFY. Based on the 1975 to 2002 time period, agricultural production is predicted to be less than 1,000 AFY in 2019, as shown on Figure 3-2. The predicted decrease in agricultural production based on 1998 to 2002 is 1,529 AFY with production predicted to be less than 1,000 AFY in 2028, as shown on Figure 3-3.

Figure 3-2
Prediction 1: Production Reduction (Based on 1975 to 2002)

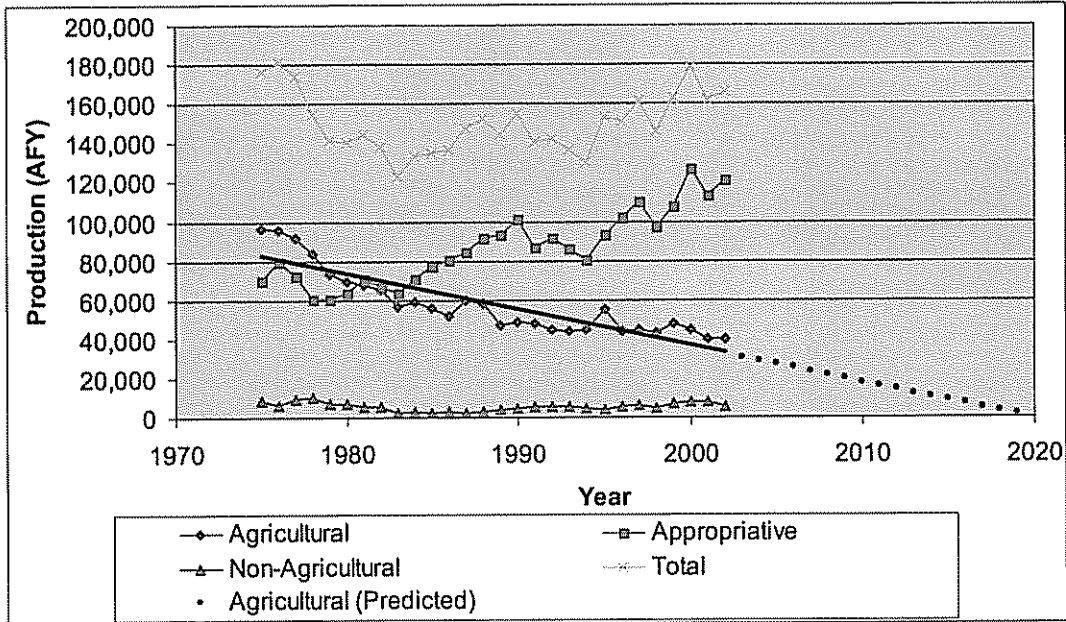
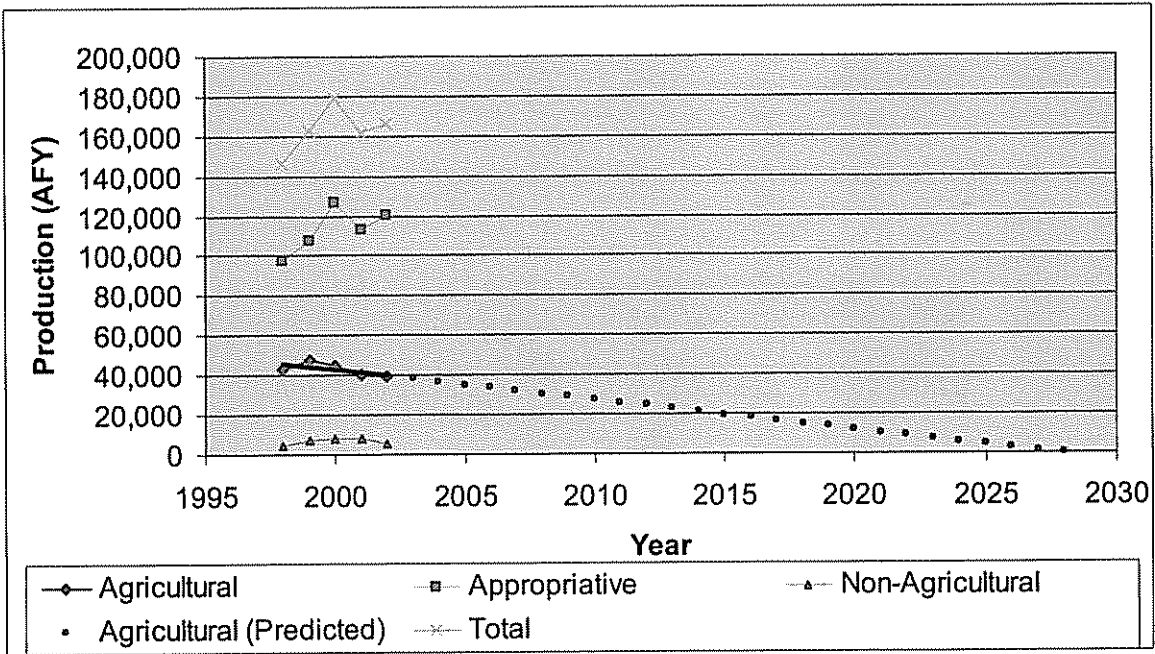


Figure 3-3
Prediction 3: Production Reduction (Based on 1998 to 2002)



4.0 COMPARISON OF AGRICULTURAL LAND USE AND PRODUCTION PREDICTIONS

For assessment purposes, groundwater pumping rights converted prior to and post Peace Agreement were reallocated at the rate of 1.3 AF per acre and 2.0 AF per acre, respectively. Assuming 2.0 AF per acre, the two land conversion rates used for making predictions, 1,914 and 1,099 acres per year, would be equivalent to production reductions of 3,828 and 2,198 AFY, respectively. These calculated production reduction rates are much higher than the historical rate of agricultural groundwater production (1,529 to 1,827 AFY).

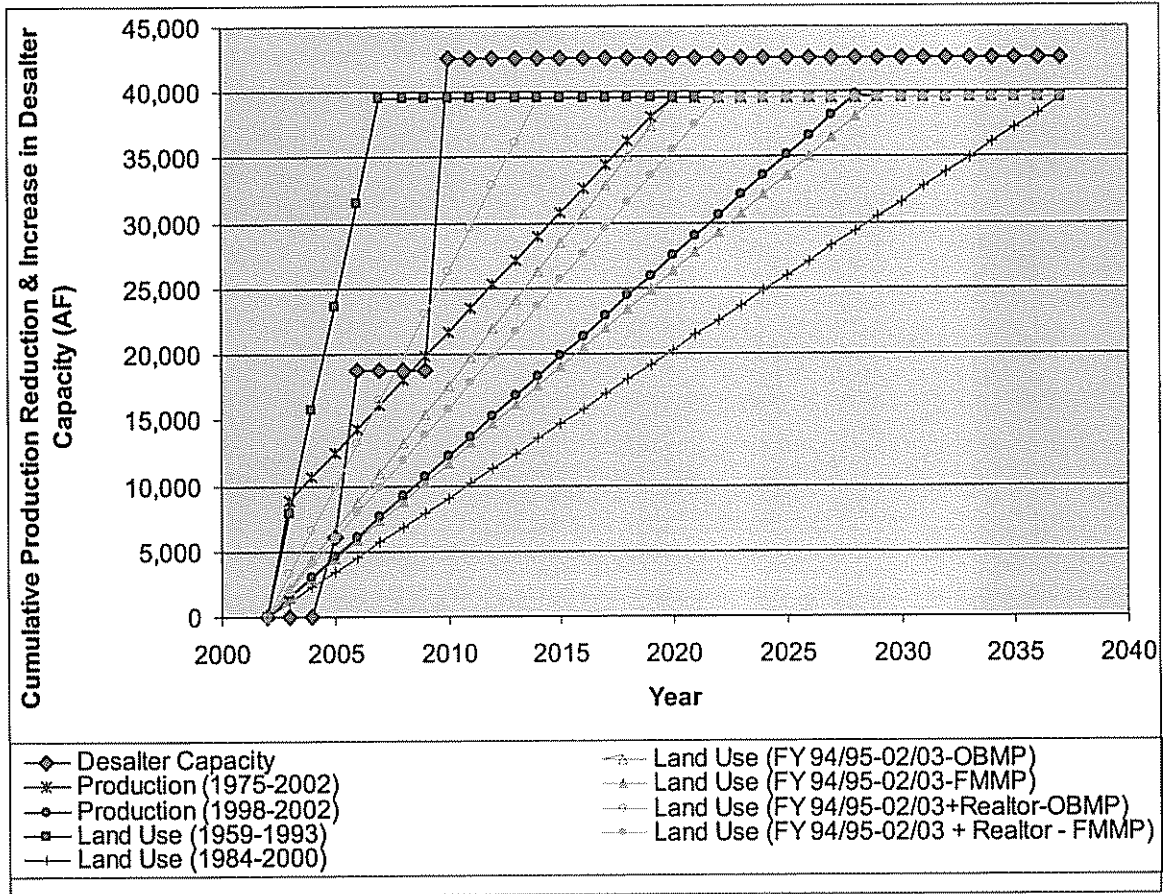
5.0 COMPARISON OF AGRICULTURAL LAND CONVERSION AND PRODUCTION AND DESALTER PRODUCTION

Figure 5-1 shows the planned increases in Desalter capacities and the predicted cumulative reductions in groundwater production based on the four land conversion periods and the two production rates using 2002 as a base year. The agricultural production reductions for the land conversion periods were assumed to be linear and to approach zero production at their respective years of minimal remaining agricultural land.

In 2002, the agricultural groundwater production was 39,494 AF, while Desalter production was 11,220 AF. To maintain the hydraulic control provided by the Desalters, the groundwater production capacity of the Desalters would need to be increased by up to 39,494 AFY to compensate for the loss of agricultural production. Between 2002 and 2010, the Desalters are planned to be expanded to treat an additional capacity of 42,580 AFY.

Based on Figure 5-1, once the Chino I Desalter is expanded and the Chino II Desalter is constructed, six out of the eight predictions show no need to adjust the Desalter expansion schedule. The predictions based on the land conversion rate from 1959 through 1993 OBMP data and assessment package data incorporating realtor predictions based on OBMP land use data show the Desalter schedule would not provide hydraulic control until the 2010 Desalter expansions.

**Figure 5-1
 Planned Increases in Desalter Capacities Compared to
 Predicted Cumulative Decreases in Agricultural Production**



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FMMP Land Use in Riverside County (acres)

Riverside County	Prime Farmland	Farmland of Statewide Importance	Unique Farmland	Farmland of Local Importance (dairies)	Grazing Land	Other Land	Urban & Built-up Land	Water	Total Ag Land
2002	4,113	467	161	4,536	0	7,094	15,455	0	9,277
2000	4,662	491	309	4,362	0	6,982	15,019	0	9,824
1998	5,551	507	309	4,320	0	7,241	13,897	0	10,687
1996	6,168	587	241	4,284	0	7,124	13,422	0	11,280
1994	6,569	598	241	4,036	0	7,176	13,206	0	11,444
1992	6,895	654	309	3,842	0	7,336	12,805	0	11,700
1990	7,531	699	331	3,575	0	7,371	12,334	0	12,136
1988	8,838	879	362	2,510	0	7,470	11,782	0	12,589
1986	9,103	915	565	2,016	0	7,197	12,045	0	12,599
1984	9,275	944	650	2,065	0	7,344	11,561	0	12,935

FMMP Land Use in San Bernardino County (acres)

San Bernardino County	Prime Farmland	Farmland of Statewide Importance	Unique Farmland	Farmland of Local Importance	Grazing Land	Other Land	Other Land (dairies)	Urban & Built-up Land	Water	Total Ag Land
2000	10,229	2,018	654	719	2,485	10,448	9,150	77,114	0	16,105
1998	11,438	2,133	689	750	2,293	10,919	8,734	75,861	0	17,303
1996	12,131	2,185	726	790	2,445	11,123	8,792	74,626	0	18,277
1994	12,934	2,507	832	790	2,675	11,739	8,608	72,732	0	19,738
1992	13,387	2,551	854	813	2,512	11,692	8,609	72,289	0	20,117
1990	13,858	2,881	883	885	2,630	13,360	8,751	69,460	0	21,137
1988	14,868	3,011	918	996	3,069	16,461	9,598	63,786	0	22,862
1986	15,747	3,332	1,258	1,069	3,810	17,591	9,750	60,151	0	25,216
1984	16,040	3,860	1,342	1,604	4,655	25,304	10,537	49,366	0	27,501










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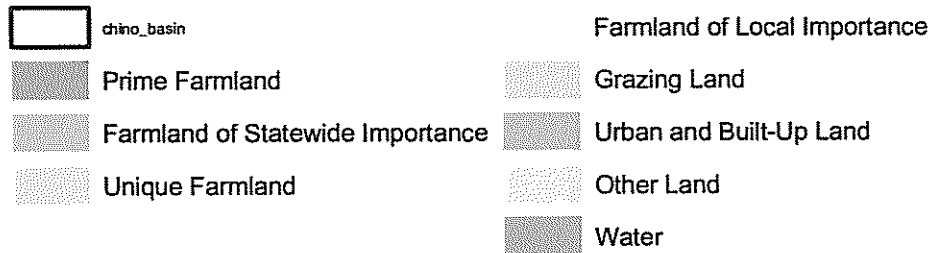
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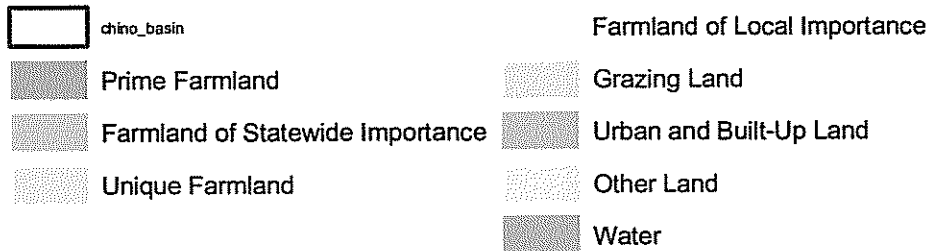
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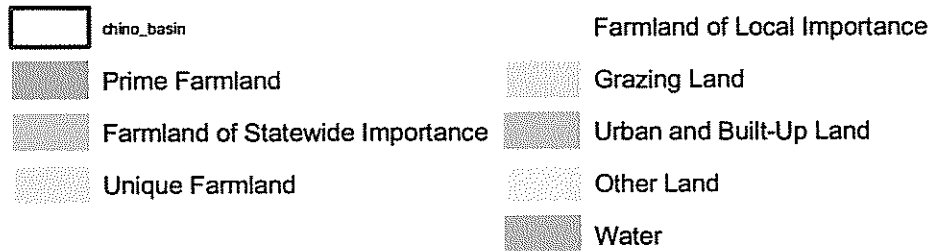
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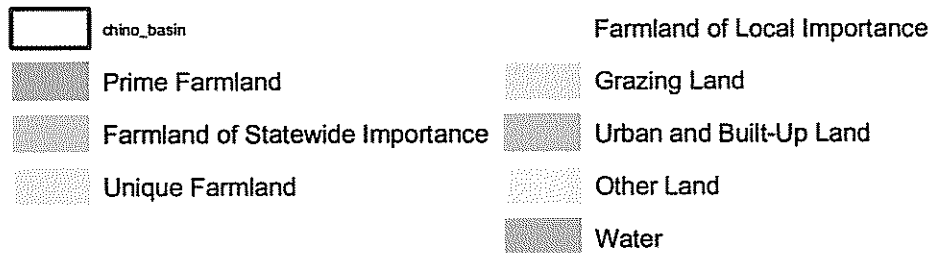
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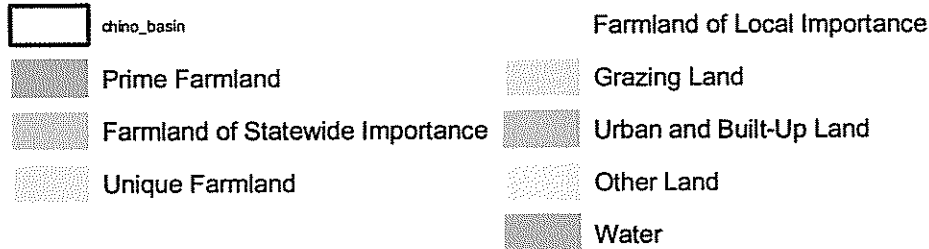
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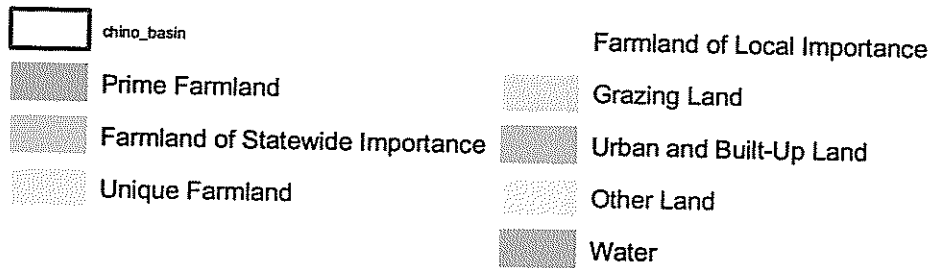
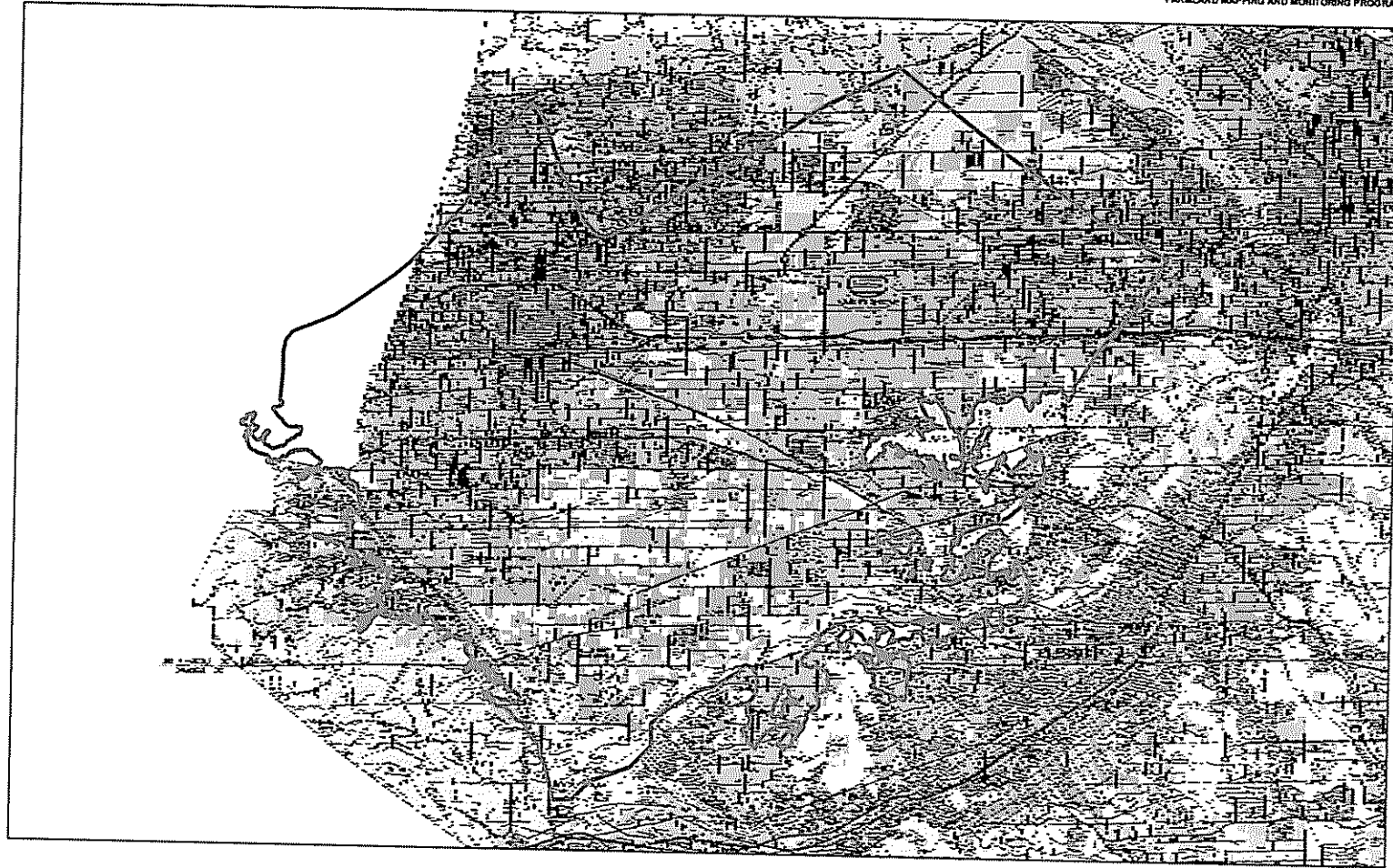
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