CHINO BASIN WATERMASTER

NOTICE OF ANNUAL MEETING

Thursday, January 19, 2012

9:00 a.m. – Annual Advisory Committee Meeting

AT THE CHINO BASIN WATERMASTER OFFICES
9641 San Bernardino Road
Rancho Cucamonga, CA 91730
(909) 484-3888

CHINO BASIN WATERMASTER

Thursday, January 19, 2012

9:00 a.m. – Annual Advisory Committee Meeting

AGENDA PACKAGE

CHINO BASIN WATERMASTER
ANNUAL ADVISORY COMMITTEE MEETING
9:00 a.m. – January 19, 2012
WITH
Mr. Jeff Pierson, Chair
Ms. Rosemary Hoerning, Vice-Chair
At The Offices Of
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

AGENDA - ADDITIONS/REORDER

I. INTRODUCTIONS OF THE ADVISORY COMMITTEE OFFICERS, CALENDAR YEAR 2012

_____	Chair	(Agricultural Pool)
_____	Vice-Chair	(Appropriative Pool)
_____	Second Vice-Chair	(Non-Agricultural Pool)
Danielle Maurizio	Secretary/Treasurer	(Chief Executive Officer)

II. 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 December 15, 2011 *(Page 1)*

B. FINANCIAL REPORTS
1. Cash Disbursements for the month of November 2011 *(Page 11)*
2. Watermaster VISA Check Detail for the month of November 2011 *(Page 25)*
3. Combining Schedule for the Period July 1, 2011 through November 30, 2011 *(Page 29)*
4. Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 *(Page 33)*
5. Budget vs. Actual Current Month, Year-To-Date, and Fiscal Year-End *(Page 37)*

C. NOTICE OF INTENT
Annual Filing of Notice of Intent Regarding the Determination of Operating Safe Yield *(Page 47)*

D. CHINO BASIN WATERMASTER INVESTMENT POLICY
Resolution 12-01 – Resolution of the Chino Basin Watermaster, San Bernardino County, California, Re-Authorizing the Watermaster's Investment Policy *(Page 49)*

E. LOCAL AGENCY INVESTMENT FUND
Resolution 12-02 – Resolution Authorizing Investment of Monies in the Local Agency Investment Fund (LAIF) - *(Page 51)*

F. ADVISORY COMMITTEE VOLUME VOTE
Consider Approval For Continuing the Calendar Year 2011 Volume Vote (as Presented and Approved in January 2011) Until the 2011-2012 Assessment Package is Approved and a New Volume Vote Can be Calculated and Acted Upon *(Page 53)*

III. BUSINESS ITEMS

A. WATERMASTER 2011/2012 ASSESSMENT PACKAGE
Consider Approval of the Fiscal Year 2011-2012 Watermaster Assessment Package *(Page 57)*

B. LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS
Resolution 12-03 – Resolution Authorizing Levying Replenishment and Administrative Assessments for Fiscal Year 2011-2012 *(Page 61)*

C. MATERIAL PHYSICAL INJURY ANALYSIS
Consider Approval to receive and file WEI's Material Physical Injury analysis, and to schedule a workshop in the near future to discuss how to proceed with storage issues *(Page 65)*

IV. REPORTS/UPDATES

A. WATERMASTER GENERAL LEGAL COUNSEL REPORT
1. Aqua Capital Management versus California Steel Industries
2. December 16, 2011 Hearing
3. Board Finding Regarding Compliance with Recharge Master Plan

B. CEO/STAFF REPORT
1. City of Upland and SAWCO Applications for Recharge Update
2. Recharge Update
3. Notice of Availability - Non-Agricultural Water *(Page 137)*
4. WEI Analysis of Well Design for CDA Well I-20 *(Page 141)*
5. Chino Basin Watermaster Excess Reserves Update *(Page 157)*
6. Vertical Extensometer Update
7. Basin Plan Amendment Update
8. West Venture Development Water Rights Update
9. New Board Member from the City of Chino Hills, William Kruger
10. New Board Member from Fontana Union Water Company, James Curatalo

C. INLAND EMPIRE UTILITIES AGENCY
1. MWD Update - Oral
2. Water Softener Initiative - Oral
3. State and Federal Legislative Reports *(Page 161)*
4. Community Outreach/Public Relations Report *(Page 183)*
5. IEUA Monthly Water Newsletter *(Page 185)*

D. OTHER METROPOLITAN MEMBER AGENCY REPORTS

V. INFORMATION

1. Cash Disbursements for December 2011 *(Page 191)*
2. Newspaper Articles *(Page 199)*

VI. COMMITTEE MEMBER COMMENTS

VII. OTHER BUSINESS

VIII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Pursuant to the Appropriative Pool Rules & Regulations, a Confidential Session may be held during the Watermaster Pool meeting for the purpose of discussion and possible action.

IX. MEETING MEETINGS

Tuesday, January 17, 2012	8:30 a.m.	GRCC Meeting @ CBWM **(New Date & Time)**
Tuesday, January 17, 2012	10:00 a.m.	CB Recharge Master Plan Update Implementation (Formerly: CB Recharge Master Plan Steering Committee) Meeting @ CBWM
Thursday, January 19, 2012	8:00 a.m.	IEUA DYY Meeting @ CBWM
Thursday, January 19, 2012	9:00 a.m.	Annual & Election Advisory Committee Meeting @ CBWM
Thursday, January 26, 2012	11:00 a.m.	Annual & Election Watermaster Board Meeting @ CBWM
Thursday, February 9, 2012	9:00 a.m.	Appropriative Pool Meeting @ CBWM
Thursday, January 12, 2012	11:00 a.m.	Non-Agricultural Pool Conference Call Meeting – and/or @ CBWM
Thursday, February 9, 2012	1:00 p.m.	Agricultural Pool Meeting @ CBWM
Thursday, February 16, 2012	8:00 a.m.	IEUA DYY Meeting @ CBWM
Thursday, February 16, 2012	9:00 a.m.	Advisory Committee Meeting @ CBWM
Thursday, February 16, 2012	11:00 a.m.	Land Subsidence Committee Meeting @ CBWM
Thursday, February 23, 2012	11:00 a.m.	Watermaster Board Meeting @ CBWM

Meeting Adjourn

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CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

A. MINUTES

1. Advisory Committee meeting held December 15, 2011

Draft Minutes
CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING
December 15, 2011

The Advisory Committee meeting was held at the offices of the Chino Basin Watermaster, 9641 San Bernardino Road, Rancho Cucamonga CA, on December 15, 2011 at 9:00 a.m.

ADVISORY COMMITTEE MEMBERS PRESENT WHO SIGNED IN

Non-Agricultural Pool	
Ken Jeske, Chair	California Steel Industries
Scott Burton	City of Ontario
Agricultural Pool	
Jeff Pierson	Ag Pool – Crops
Bob Feenstra	Ag Pool – Dairy
Pete Hall	Ag Pool – State of California – CIM
Appropriative Pool	
Mark Kinsey	Monte Vista Water District
Marty Zvirbulis	Cucamonga Valley Water District
Raul Garibay	City of Pomona
Dave Crosley	City of Chino
Ron Craig	City of Chino Hills
Mohamed El-Amamy	City of Ontario
Robert Young	Fontana Water Company
Josh Swift	Fontana Union Water Company
Ben Lewis	Golden State Water Company
Rosemary Hoerning	City of Upland
Charles Moorrees	Santa Ana Water Company
Eldon Horst	Jurupa Community Services District

BOARD MEMBERS PRESENT WHO SIGNED IN

Bob Kuhn	Three Valleys Municipal Water District

Watermaster Staff Present

Danielle Maurizio	Senior Engineer/Interim CEO
Gerald Greene	Senior Environmental Engineer
Sherri Molino	Recording Secretary

Watermaster Consultants Present

Michael Fife	Brownstein, Hyatt, Farber & Schreck
Scott Slater	Brownstein, Hyatt, Farber & Schreck
Mark Wildermuth	Wildermuth Environmental Inc.
Andy Malone	Wildermuth Environmental Inc.

Others Present Who Signed In

Jo Lynne Russo-Pereyra	Cucamonga Valley Water District
Tom Harder	Jurupa Community Services District
Jack Safely	Western Municipal Water District
Robert DeLoach	Western Municipal Water District
Ryan Shaw	Inland Empire Utilities Agency
Tom Love	Inland Empire Utilities Agency
Rick Hansen	Three Valleys Municipal Water District
Van Jew	Monte Vista Water District

Justin Scott-Coe	Monte Vista Water District
Terry Catlin	Inland Empire Utilities Agency
John Bosler	Cucamonga Valley Water District
Rick Hansen	Three Valleys Municipal Water District
Curtis Paxton	Chino Desalter Authority
Eunice Ulloa	Chino Basin Conservation District
Bob Gluck	City of Ontario
Sheri Rojo	Fontana Water Company
Seth Zielke	Fontana Union Water Company

Chair Jeske called the Advisory Committee meeting to order at 9:00 a.m.

AGENDA - ADDITIONS/REORDER
There were no additions or reorders made to the agenda.

I. CONSENT CALENDAR

A. MINUTES

1. Minutes of the Advisory Committee Meeting held November 10, 2011

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of October 2011
2. Watermaster VISA Check Detail for the month of October 2011
3. Combining Schedule for the Period July 1, 2011 through October 31, 2011
4. Treasurer's Report of Financial Affairs for the Period October 1, 2011 through October 31, 2011
5. Budget vs. Actual July 2011 through October 31, 2011

Motion by Garibay second by Young, and by unanimous vote
Moved to approve Consent Calendar items A through B, as presented

II. BUSINESS ITEMS

A. CHINO BASIN WATERMASTER RESERVES

Ms. Maurizio stated this item was covered in detail at all three Pool meetings and a presentation was also given. Ms. Maurizio stated the question has been raised by the Appropriators for approximately six months now as to how much money is actually in the reserves. Ms. Maurizio stated there is an immediate need to agree on how to handle the reserves in the upcoming Assessment Package, which is currently being worked on and will be presented next month. Ms. Maurizio stated there is also the issue of how much reserves there are, what is to be done with them, and then implementing a Policy for reserves since Watermaster does not have a current written policy in place. Ms. Maurizio stated she has the presentation here today to give which was the same as the one given at the Pool meetings. Ms. Maurizio noted Mr. Joswiak would normally present this item; however, he is out on leave for a few weeks. Ms. Maurizio stated it appears the committee members do not want to see the entire presentation so she will go over the actions taken at the Pool meetings. Ms. Maurizio stated the Appropriative Pool's motion was to unanimously approve to have Watermaster move forward with the creation of the Assessment Package, and return the current Appropriative Pool excess reserves of $2,542,181 allocated back to the parties based on the last four years of pro-rata share of the assessment and return it as a credit on their invoice for current fiscal year assessments, and then secondly to have some of the partys' finance officers work with Watermaster staff to come up with a permanent reserve policy at least as it relates to the Appropriative Pool. Ms. Maurizio offered further comment on the Appropriative Pool's motion for clarification. Ms. Maurizio stated each Pool had very different actions. Ms. Maurizio stated the Non-Agricultural Pool's action was to unanimously approve staff recommendation, have Watermaster staff provide a credit on the Assessment invoice for monies paid into the excess fees over the last four years, and to direct the chairs to support at the Advisory Committee and Watermaster Board meetings subject to changes which they determine to be appropriate. Ms. Maurizio offered further comment on the

Non-Agricultural Pool's motion for clarification. Ms. Maurizio stated the Agricultural Pool's action was from a recommendation from the Pool Chair, Mr. Feenstra, to recommend Watermaster staff look at bringing this item back with options on how to allocate the reserve funds. Ms. Maurizio stated part of the Agricultural Pool's conversations on this item was that the Appropriative Pool pays those assessments on their behalf, and that those are still assessments of the Agricultural Pool and perhaps they should be given the excess reserves back for that portion rather than monies go to the Appropriative Pool members who paid it on their behalf. Mr. Pierson stated that was an opinion that was shared at the Agricultural Pool meeting, that it would be looked at on a pro rata basis as to reserves that would be allocated back to the Agricultural Pool if the Agricultural Pool would have paid their assessment. A discussion regarding the Agricultural Pool's comments ensued. Ms. Maurizio noted all of the motions are listed in the staff letter in the meeting package from the Pool meetings. Ms. Maurizio stated staff's recommendation for this item. Chair Jeske asked for any comments and Mr. Kinsey stated he would move staff recommendation.

Motion by Kinsey second by Crosley, and by unanimous vote

Moved to approve staff recommendation to approve (1) Watermaster moving forward with the creation of the Assessment Package using the 30/30 Reserve and $200,000 savings to offset assessments; (2) Return the current Appropriative Pool Excess Reserves of $2,542,181 and Non-Agricultural Pool Excess Reserves of $81,757 allocated back to the Parties based on the last four years of pro-rata share of the assessments and return it as a credit on their invoice for current fiscal year assessments (any Party with a greater Excess Reserve allocation than current assessment will be issued a check); and (3) That the Parties work with Watermaster staff to develop a permanent reserve policy, as presented

B. TURNER BASIN IMPROVEMENT PROJECT AGREEMENT

Ms. Maurizio stated a presentation was given at the Pool meetings on this item. Ms. Maurizio stated the Turner Basin Project has been discussed for several years and Watermaster is ready to move on to the next phase of the project now that some grant funding has been received. Ms. Maurizio stated this contract needs to be signed this month so that Watermaster can move forward and complete this phase of the project to meet the grant requirements. Ms. Maurizio stated the motions at the Pool meetings varied slightly as to how to fund the project, however, the actual approval of the project was approved unanimously. Ms. Maurizio inquired if the committee members wanted to see the full presentation or see the last page where the motions are listed. Chair Jeske noted there is no request to see the presentation and the actions are listed. Chair Jeske stated both the Appropriative and Non-Agricultural Pools dealt with funding discussions in their meetings. Chair Jeske stated he would like to see how this is going to be funded in the next financial review, particularly for this year, in some sort of financial report. Chair Jeske stated that would meet the needs of the Non-Agricultural Pool. Mr. Kinsey stated he moves staff's recommendation; however, has some questions. Mr. Kinsey offered comment on this project and inquired if additional recharge capacity is needed in MZ2 to meet long term needs, and inquired if this really does creates any additional new yield to recharge improvements. Mr. Kinsey stated if there is new yield, the question is, what do we do what that new yield which has been created? Mr. Wildermuth stated for the new recharge capacity needed in MZ2 question, if this water can replace importation water cost effectively then yes, this is a very cost effective project. Mr. Wildermuth stated for the new yield question there is no downstream basin; there is so much water in that system that it gets overwhelmed and he has not done any calculations on this question. Mr. Wildermuth stated to the extent that in most years it will result in new recharge; we just do not know how much. Mr. Moorrees inquired if this would enable maintenance of the basins without taking any out of service. Mr. Wildermuth stated he does not know the answer to that question. Mr. Greene stated the way the isolation between the basins work is there would be better ability to do operation and maintenance of a single basin, leaving others around it open or available for recharge. Mr. Greene offered further comment on the capture of recharge. Mr. Garibay inquired about new regulations on recycled water recharge and how that might modify the projections for this basin. Mr. Love stated as the

draft water recharge regulations for recycled water has evolved over the last ten years; those regulations are being watched very carefully. Mr. Love offered comment on Inland Empire Utilities Agency's (IEUA) first permit, the revised permit, and the new recharge regulations. Mr. Love stated the Health Department's revised permit, which was provided to IEUA, actually improved recycled water recharge. Mr. Love noted the regulations have been in draft form for twenty years now and regulations are watched very carefully. Mr. Love stated he does not believe anything they are doing with those right now will affect our ability to recharge recycled water. Mr. Garibay inquired about the control of the facilities. Mr. Love stated the facilities are owned by the County, a small portion of the site is owned by the Chino Basin Water Conservation District, portions are owned by Flood Control, and portions are owned by County Parks. Mr. Love stated many of the basins are owned by the Flood Control and IEUA works very closely with them on the operations; IEUA does not have complete control because they own the site and Flood Control operations take precedent over recharge operations. Mr. Love offered further comment on this project and recharging. Mr. Garibay inquired with all the basins that have been identified, where does Turner Basin fit into those priorities? Mr. Wildermuth stated he could do a quick look up but he thinks it's one of the low hanging fruit because there was a lot of other money involved in it; the expansion is quite productive in terms of production also. Mr. Wildermuth stated, to emphasize on something Mr. Love said, these are Conservation basins, and are not Flood Control's, so the conflicts with the Flood Control are almost nil; this is really an attractive project. Chair Jeske offered final comments on this item.

Motion by Kinsey second by Moorrees, and by unanimous vote
Moved to approve the approval of the cost sharing agreement, as presented

C. ANNUAL FINDING WITH COMPLIANCE OF UPDATED RECHARGE MASTER PLAN

Ms. Maurizio stated this item was covered in the Pool meetings; however, she will review it briefly. Ms. Maurizio stated Watermaster is required to make this annual finding that it is in substantial compliance with the 2010 Recharge Master Plan Update; this will be the first one required for Watermaster to do on this plan annually. Ms. Maurizio stated Wildermuth's latest report indicates there is enough recharge capacity. Watermaster knows there is an imbalance of recharge and discharge that exists in MZ3, and specifically in the Jurupa area. Ms. Maurizio stated Watermaster is working on addressing those issues. Ms. Maurizio stated to show we are in compliance, Watermaster has committed to the process toward implementing the Preemptive Replenishment Program. Mr. Horst stated Jurupa Community Services District (JCSD) has submitted a letter of comment on December 14, 2012, regarding the reports and findings, and JCSD realizes this letter has come in subsequent to the Pool meetings; however, staff feels it is important to be on record with our position. Mr. Horst stated the letter contains three important points and those three points are not only important to JCSD but on a regional basis as well. Mr. Horst noted a copy of the letter is on the table and he reviewed the three points in detail. Mr. Horst stated the bottom line point is whether it's improvements in recharge or whether it's in lieu supplies, they all require an Implementation Plan and they all require a Finance Plan; those are the missing pieces to this point. Mr. Horst stated JCSD is prepared to make a motion to approve the recommended action contingent on completing the Implementation Plan and the Finance Plan within the next year. Chair Jeske asked for any comments or a second before we comment. Mr. Craig inquired to Mr. Horst how much groundwater production you feel like on a long term basis you might be short, the difference between what you can physically can do with the decline in groundwater levels, and your appropriative right. Mr. Horst stated JCSD is looking at that internally and in the next few weeks we anticipate to come up with a clear quantification. Mr. Wildermuth stated during the development of the Peace Agreement, WEI did a subsequent analysis in 2009, WEI came of the opinion using the then projections for groundwater in the future that somewhere around 4,000 acre-feet would be appropriate and this is a model projection based on what we then thought was going to happen; however, we think something different is going to happen now based on these projections and he noted he is not exactly sure what that number now is. Mr. Wildermuth stated that number came by looking at the existing recharge facilities and trying to put water into those facilities and coming to the conclusion that it did not have much benefit to the existing basins. Mr. Wildermuth stated the ASR Project needed

to be looked at and what that could do, and that is where the 4,000 acre-foot number came from. Mr. Wildermuth explained the new pumping plans which are substantially different. Mr. Zvirbulis stated to the extent that Mr. Horst's motion is reflective of some of the discussions that have occurred so far at the Steering Committee level on the Recharge Master Plan, which include not only the implementation of the 2010 document but a reevaluation of the different parameters that drive the need for recharge, whether it be by management zone or otherwise, and to look at alternatives from an in lieu perspective then he can support that. Mr. Zvirbulis stated he has been on the Steering Committee to start with and he feels that it limits participation by other affected parties, and from his standpoint, as this moves forward he would hope that the process could be opened up to any interested parties here in the Watermaster family to participate in the development of the necessary plans to move this forward. Mr. Zvirbulis stated if that was the intention then he would second the motion. A lengthy discussion regarding the motion and this matter ensued. Chair Jeske reiterated Mr. Zvirbulis' question and comments, and Mr. Horst stated he supports the call for further participation. Mr. Horst stated the question of what is included in the Implementation Plan would be within twelve months from now, and the identification of projects and how they would be financed so this could move to completion so that parties have some ability to be able to rely on a sustainable water supply for the reasonable future. Chair Jeske stated he is hearing different things saying the same thing in that we all want to work on all options and to put together an Implementation Plan that meets the goals by looking at all options without limit. Mr. Horst stated JCSD is not willing to forgo its rights in the Judgment. Mr. El-Amamy asked that a clarification of the motion be made either by Mr. Wildermuth or Counsel. Counsel Fife stated this is important and he is agreeing with Chair Jeske that he is hearing different words for the same thing. Counsel Fife stated the motion is a motion to approve, with a conditionality placed on it that over the next twelve months an Implementation Plan and Financing Plan, which would go with the Implementation Plan, be developed to address the issues that are of concern in the Recharge Master Plan, and as noted by Mr. Zvirbulis that it is not limited to certain pathways to resolution but that all options for the resolution of the issues will be examined. Mr. Zvirbulis stated that was correct and offered further comment on the limited invited participation of the Steering Committee. Mr. Zvirbulis described the items being worked on by the Steering Committee. Counsel Fife stated it appears JCSD is looking for a specific plan with timelines and milestones for whatever projects are necessary. Mr. Horst stated that was correct and the Implementation Plan would include completion dates and the Finance Plan would include a viable method of raising the funds necessary to complete the work; it would be development and completion of the two plan components. Chair Jeske stated he hears the motion to approve the item and require an Implementation Plan and Financing Plan without limit to the options of those plans to be completed within one year. Mr. Wildermuth stated he thinks twelve months is way to short with the way processes move through Watermaster; to get people to come to meetings and agree on something and have work done that has to be reviewed and commented on, with a final approval in twelve months seems fast. Mr. Horst stated he understands that; however, the Judge issued an order for completion by December 2011, for some of these vary components and JCSD thinks twelve months is generous. Mr. Kinsey stated even though the basis of developing the original Recharge Master Plan has changed dramatically. Chair Jeske stated the motion was to approve the item which is a report that was made to the court and the two added items are those items that will ultimately go to the Board and then the Board will issue direction on. Chair Jeske stated depending on the amount of work involved with what could be viable options, would there be any reason if we got to a point where a few more months were needed to work on that, could we do that? Chair Jeske stated what JCSD suggested is that the first timeline be set but he did not hear it set in stone in the filing. Counsel Fife stated this is not about a filing and nothing goes to court about this; this is a requirement of the Peace II Agreement, that this process be gone through every year and have these types of discussions every year about where we are on the Recharge Master Plan implementation. Mr. Kinsey stated he wanted to clarify the motion. Mr. Kinsey stated within the next year there will be completion of the Recharge Master Plan Update, development of an Implementation Plan to address balance issues within the Chino Groundwater Basins subzones, and the development of a Funding Plan. Mr. Kinsey offered further comment. Chair Jeske inquired to Mr. Horst if that was an acceptable motion and Mr. Horst stated it was. Chair Jeske

asked if there was a second on the motion and Mr. Craig seconded the motion. Mr. Zvirbulis stated he wanted to comment on the process that is used to get there. Mr. Zvirbulis stated the Steering Committee concept was a great concept; there are a lot of moving parts and this is one of them, and the other one is the issue related to preemptive replenishment. Mr. Zvirbulis stated he thinks there is lack of facilitation of that group and it would be beneficial to all of us if we could agree on how to move that forward and under whose guidance that is done, whether it be Watermaster's legal counsel, or an appointed member to serve as chair of that Committee to help facilitate the process, and not leave that particularly to Watermaster staff to do; it would be more beneficial to all of us engaged to appoint one person to help facilitate that effort in a coordinated fashion. Chair Jeske asked if Mr. Zvirbulis was looking to do that today, next month is the annual meetings where the Pools and elect chairs. Mr. Zvirbulis stated he believes there are a couple of meetings already scheduled before the annual meeting and offered that maybe those meetings be delayed until after a chair or designated facilitator can be determined before the first meeting in order to have some purpose and value associated with it. Counsel Fife stated he would like to make a recommendation that it may be appropriate for the Steering Committee, at its next meeting, to discuss that since it is occurring prior to the annual meeting, they would be in a position to transmit a recommendation to the Board. A discussion regarding this matter ensued. Chair Jeske stated the Steering Committee would be open to general attendance and the Steering Committee would put on their agenda a coordinator/facilitator for the group; this is just a recommendation to the group to follow. Mr. Garibay offered comment on the funding of this project.

Motion by Horst second by Craig, and by unanimous vote

Moved to approve* that within the next year there will be the completion of Recharge Master Plan Update, there will be the development of an Implementation Plan to address balance issues within the Chino Basin subzones, and the development of a Funding Plan, *as presented

III. REPORTS/UPDATES

A. WATERMASTER GENERAL LEGAL COUNSEL REPORT

1. Update on 180 day deferral of December 17, 2011 Recharge Master Plan Filing
   Counsel Fife stated there is a draft pleading on the back table for the 180 day deferral which was directed by the Watermaster Board. Counsel Fife stated there has been a hearing scheduled for tomorrow morning with the court at 10:30 a.m. and the pleading has been filed. Counsel Fife stated he is not aware of any objection to the motion; it was distributed at the Pools and only typographical comments have been received.

2. Aqua Capital Management versus California Steel Industries
   Counsel Fife stated this lawsuit is in a different courtroom than Judge Reichert. Counsel Fife stated California Steel Industries has filed a demur where they have asked the court to dismiss the lawsuit on the basis that the issues have already been ruled on by our court, and then in the alternate, that the case be moved back to Judge Reichert to be in the adjudication courtroom. Counsel Fife stated the hearing on this is December 19, 2011 and Watermaster will attend to be on hand; however, Watermaster is not filing anything at this time.

B. WATERMASTER ENGINEERING REPORT

1. Chino Creek Wellfield Extensometer Location
   Mr. Malone stated in the Peace II CEQA documentation there is a monitoring and mitigation requirement to install an extensometer near the Chino Creek Desalter Well Field. Mr. Malone reviewed a map of the location in detail. Mr. Malone reviewed the property area in which the extensometer will hopefully be installed. Mr. Malone noted the extensometer is going to be below ground. Mr. Malone discussed the proposed construction, easement, and permanent easement. Mr. Malone noted the county has stated that the site is acceptable with them; however, complete confirmation has not been received. Mr. Malone stated once the final lease agreement is received, Watermaster Counsel will be reviewing it. Mr. Malone stated we were working after that with the Agricultural Pool's chair, Bob Feenstra

and Frank Brommenschenkel to help us get a site by working with a private land owner in the event the county's site falls through. Mr. Malone stated he will keep the parties apprised on this matter at future meetings.

C. CEO/STAFF REPORT

1. RWQCB Basin Plan Amendment Update
Mr. Wildermuth stated his report has not changed since it was given at the Pool meetings and he could repeat what was given at those meetings. Chair Jeske offered comment on this item. Mr. Wildermuth stated the controversial language they put in there has to do with the definition of incidental recharge of planned recycled water recharge. Mr. Wildermuth stated he has been working with the RWQCB staff and will find out shortly if those writers have been removed.

2. Recharge Update
Ms. Maurizio stated there is an updated Recharge spreadsheet which was not available at the Pool meetings earlier this month for November. Ms. Maurizio stated 1,174 acre-feet has been received for storm water, zero acre-feet of imported water, and 648 acre-feet of recycled water. Ms. Maurizio reviewed the fiscal year totals in detail.

3. Resolution of Preemptive Replenishment Water Purchase
Ms. Maurizio stated she is very happy to report that since the last Advisory Committee and Watermaster Board meetings Watermaster has signed the agreements with Jurupa Community Services District and with the City of Ontario. Ms. Maurizio stated the City of Ontario agreement was signed very quickly after the Board meeting and they gave a check to Watermaster almost immediately. In turn, Watermaster paid IEUA. Ms. Maurizio noted for your information, the balance due to IEUA was paid in two checks. Ms. Maurizio stated on November 23, 2011 Watermaster paid IEUA in the amount given by the City of Ontario Agreement. The Jurupa agreement had to go back to their board on November 28, 2011 and the next morning they had the check and the agreement to Watermaster, and those funds were then taken to IEUA for the last payment on the balance due. Ms. Maurizio stated IEUA had to pay MWD by November 30, 2011, otherwise they were going to pay a late fee – Watermaster did get the monies due to IEUA in time that they did not incur any penalties. Ms. Maurizio stated she attended the actual IEUA board meeting yesterday where Watermaster had officially asked for them to waive our penalties and interest because we paid them late according to their invoice; the IEUA board considered our request and they waived the fees for Watermaster. Ms. Maurizio stated Watermaster now has all of the agreements needed and has paid IEUA in full for the water and all is good. Ms. Maurizio noted there is a handout on the back table which breaks down the water in further detail

4. Notice of Availability of Non-Agricultural Pool Water
Ms. Maurizio stated this item is the Notice of Availability for the Non-Agricultural Pool water which starts on page 71 of the meeting packet. Ms. Maurizio stated this is just notification that if any party of the Non-Agricultural Pool parties would like to sell their water out of storage they need to notify Watermaster by December 31, 2011 via email to Ms. Maurizio. Ms. Maurizio stated the notice is included in the meeting packet as well. Mr. Kinsey inquired if there is an available amount. Counsel Fife stated the way the notice procedure works is that Watermaster puts out the notice which is a request to the Non-Agricultural Pool parties to indicate how much water they are willing to sell by December 31st. Counsel Fife stated then, by January 31st, Watermaster notifies the Appropriative Pool of the amount that has been put up for sale and then the process moves one. Chair Jeske stated this is the first step.

6. Agricultural Pool Recommendation on the Applications for Recharge Update
Ms. Maurizio stated in the Pool meetings earlier this month there were two Applications for Storage and Recharge Agreements in the meeting package from the City of Upland and San Antonio Water Company which were actually pulled from the Consent Calendar by each

Pool. Ms. Maurizio stated these applications were discussed thoroughly. Ms. Maurizio stated the Appropriative and Non-Agricultural Pools deferred the item. Ms. Maurizio stated the Appropriative Pool requested staff to review all Storage Agreement requests that have been received to date, going back to the Peace agreement, directed staff to have a Material Physical Injury Analysis done on them, and to review where we are with regard to the cap and how all the agreements fit into that cap. Ms. Maurizio stated the Non-Agricultural Pool deferred this item pending action from the Appropriative Pool. Ms. Maurizio stated the Agricultural Pool decided to move forward the Applications for Recharge, not the Storage Agreement portion, only the Recharge Application section. Mr. Kinsey inquired about the physical portion of the Application for Recharge, which is the actual physical part of putting water into the basin and requires a Material Physical Injury Analysis, which was not completed for either one of those applications. Mr. Kinsey stated he is not sure how these can move through the process that is deficient in terms of the necessary information to begin with. Mr. Kinsey noted if this moves forward without further discussion, then this would eliminate any further Pool comments on the Physical Injury Analysis as part of the process if it is not brought back through the entire process. Ms. Maurizio stated she is only pointing out the actions taken at each Pool meeting. Ms. Maurizio stated staff is collecting all the applications received to date, which there are some missing, and staff is moving forward with the Material Physical Injury Analysis on them, and that analysis will be brought back through the Watermaster process.

7. Mailing of Archibald South Plume Water Quality Results

Ms. Maurizio stated this item was a Business Item on the Agricultural Pool agenda this month. Ms. Maurizio stated Watermaster staff has been doing quite a lot of sampling around the Archibald South Plume and, while staff has been out there, there have been multiple requests from the owners and the users to receive their data. Ms. Maurizio stated staff discussed with the Agricultural Pool how that data would be transmitted. Ms. Maurizio stated the Agricultural Pool directed staff to send the information to both the owners and users, including all of the water quality results.

8. Annual and Election Meetings for January, 2012 Reminder

Ms. Maurizio stated this is a reminder that the annual meetings will be in January, 2012 where the elections take place, and the dates are listed in the Future Meetings section of the agenda. Ms. Maurizio reminded the parties that the Board meeting has moved up a week to December 15, 2011 to accommodate the upcoming holiday. Ms. Maurizio stated on that day there will also be a Land Subsidence Committee meeting at 8:00 a.m., and a workshop has been added for the review of 2011 Groundwater Production & Replenishment Projections at 1:30 p.m.

D. INLAND EMPIRE UTILITIES AGENCY

1. MWD Update

Mr. Shaw stated Metropolitan Water District (MWD) had two information items go to their board this week. Mr. Shaw stated the first one was on the Replenishment Program and the second was a finance board workshop. Mr. Shaw stated MWD is getting together more details regarding the Replenishment Program and they are still proposing three levels, and the incentives are looking a lot lower than they were in the old program. Mr. Shaw stated in the next month the new the MWD board will take an action on the new Replenishment Program which will have some substantial impacts to the Chino Basin and the board letter regarding this is on the back table. Mr. Shaw stated the long range Financial Plan goes from variable costs to fixed costs, and there is a workgroup coming up with some potential solutions for new additional fixed costs. Mr. Shaw stated with regard to MWD rates, they held a workshop on Monday and they did not get into a lot of details, and there will be some substantial changes to MWD's rate structure. Mr. Shaw stated within the next six months MWD will be making some decisions on rates. Mr. Shaw offered comment on purchase orders and if they were successful over the last ten years, and a workgroup will be meeting with this regard within the next six months or so. A lengthy discussion regarding Mr. Shaw's

report ensued. Mr. Shaw offered comment on the MWD LRP progress and noted it has only been discussions lately and not action has been taken.

2. Water Softener Initiative
Mr. Love stated on Monday evening the City of Upland held a public hearing, and at that hearing there were no comments or oppositions on the Water Softener Ordnance received. Mr. Love stated that Initiative is now on the January 23, 2012 agenda for adoption from the city council. Mr. Love stated he has worked very closely with several cities to get this moved forward and he will keep people apprised of its progress.

Mr. Horst expressed appreciation to IEUA and its board for the flexibility on the Preemptive Replenishment Agreement regarding the penalties. Mr. Love stated this is was an unusual circumstance and offered further comment on this matter.

3. State and Federal Legislative Reports
No comment was made.

4. Community Outreach/Public Relations Report
No comment was made.

5. IEUA Monthly Water Newsletter
No comment was made.

D. OTHER METROPOLITAN MEMBER AGENCY REPORTS

Mr. Safely offered comment on the EPH rules and noted there are draft guidelines for recycled water recharge. Mr. Safely stated there is an open comment period for agencies to comment on this EPH rules until January. Mr. Safely offered comment on the MWD options.

Mr. Hansen offered comment on the Long Range Financial Plan and noted MWD is really struggling with their cash flow. Mr. Hansen noted 80% of MWD's budget is fixed costs. Mr. Hansen offered comment on MWD's income and their need to change things to fixed costs, and he gave several examples of what these new fixed costs could look like. Mr. Hansen offered comment on the MWD options in detail. Mr. Hansen stated Three Valley Municipal Water District is going to be looking for partners for places to put water.

IV. INFORMATION

1. Cash Disbursements for November 2011
No comment was made.

2. Newspaper Articles
No comment was made.

V. COMMITTEE MEMBER COMMENTS

Mr. Kinsey expressed his appreciation for IEUA waiving the late fees for Watermaster. Mr. Kinsey stated this is Mr. El-Amamy's last Advisory Committee meeting and expressed appreciation for all his efforts and hard work. Chair Jeske stated he has worked with Mr. El-Amamy for the past twenty-two years and wished him the best for all his future endeavors. Mr. Feenstra offered comments to Mr. El-Amamy on his wonderful job done over the last several years and wish him the best in the future. Mr. El-Amamy thanked all present and stated when he first started here in this water world the issues were complex and the stakes were high, and today the issues are even more complex and the stakes even higher. Mr. El-Amamy thanked the parties for their contributions on resolving many issues over the last several years and thanked Watermaster staff, legal counsel, and especially Wildermuth Environmental for their presentation of very intricate information in a way that we all could understand, and guided all of us through the process for us to make the right decisions.

VI. OTHER BUSINESS

No comment was made.

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Pursuant to the Advisory Committee Rules & Regulations, a Confidential Session may be held during the Watermaster Pool meeting for the purpose of discussion and possible action.

VIII. FUTURE MEETINGS

Thursday, December 15, 2011	8:00 a.m.	Land Subsidence Committee Meeting @ CBWM
Thursday, December 15, 2011	9:00 a.m.	Advisory Committee Meeting @ CBWM
* **Thursday, December 15, 2011**	**11:00 a.m.**	**Watermaster Board Meeting @ CBWM**
Thursday, December 15, 2011	1:30 p.m.	Workshop for Review of 2011 Groundwater Production & Replenishment Projections
Thursday, January 12, 2012	9:00 a.m.	Annual & Election Appropriative Pool Meeting @ CBWM
Thursday, January 12, 2012	11:00 a.m.	Annual & Election Non-Agricultural Pool Conference Call Meeting – and at CBWM
Thursday, January 12, 2012	1:00 p.m.	Annual & Election Agricultural Pool Meeting @ CBWM
Thursday, January 19, 2012	8:00 a.m.	IEUA DYY Meeting @ CBWM
Thursday, January 19, 2012	9:00 a.m.	Annual & Election Advisory Committee Meeting @ CBWM
Thursday, January 26, 2012	11:00 a.m.	Annual & Election Watermaster Board Meeting @ CBWM

* **Note:** Watermaster Board meeting date change due to the Christmas holiday

Chair Jeske dismissed the Advisory Committee meeting at 10:06 a.m.

Secretary: _____

Minutes Approved: _____

CHINO BASIN WATERMASTER

II. CONSENT CALENDAR

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of November 2011
2. Watermaster VISA Check Detail for the month of November 2011
3. Combining Schedule for the Period July 1, 2011 through November 30, 2011
4. Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011
5. Budget vs. Actual Current Month, Year-To-Date, and Fiscal Year-End

CHINO BASIN WATERMASTER

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

STAFF REPORT

DATE: **January 19, 2012**

TO: **Committee Members**

SUBJECT: **Cash Disbursement Report – Financial Report B1**

SUMMARY

Issue – Record of cash disbursements for the month of November 2011.

Recommendation – Staff recommends the Cash Disbursements for November 2011 be received and filed as presented.

Fiscal Impact – Funds disbursed were included in the FY 2011-2012 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 November 2011 were $4,155,940.20. The most significant expenditures during the month were to Inland Empire Utilities Agency in the amounts of $1,407,265.14; $1,225,687.42; $783,275.27 (check number 15599 dated November 23, 2011; check number 15537 dated November 7, 2011; check number 15598 dated November 23, 2011) and Wildermuth Environmental, Inc. in the amount of $201,840.81 (check number 15603 dated November 30, 2011).

Actions:
January 12, 2012 Appropriative Pool – Approved unanimously
January 12, 2012 Non-Agricultural Pool – Moved to receive and file
January 12, 2012 Agricultural Pool – Approved unanimously
January 19, 2012 Advisory Committee –
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	**11/07/2011**	**15537**	**INLAND EMPIRE UTILITIES AGENCY**	**90008537**	**1012 · Bank of America Gen'l Ckg**	
Bill	09/30/2011	90008537		90008537	8456 · IEUA Readiness To Serve	552.90
				90008537	5011 · Replenishment Water	1,225,134.52
TOTAL						1,225,687.42
Bill Pmt -Check	**11/09/2011**	**15538**	**ACWA**	**643**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	643		2012 Agency Dues	1433 · Prepaid Membership Dues	14,370.00
TOTAL						14,370.00
Bill Pmt -Check	**11/09/2011**	**15539**	**APPLIED COMPUTER TECHNOLOGIES**	**2032**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	2032		Database Services - October 2011	6052.2 · Applied Computer Technol	2,415.00
TOTAL						2,415.00
Bill Pmt -Check	**11/09/2011**	**15540**	**ARROWHEAD MOUNTAIN SPRING WATER**	**0023230253**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	0023230253		Office Water Bottle - October 2011	6031.7 · Other Office Supplies	26.69
TOTAL						26.69
Bill Pmt -Check	**11/09/2011**	**15541**	**BOWCOCK, ROBERT**	**10/20/11 Advisory Committee Meeting**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	**11/09/2011**	**15542**	**CHINO HILLS, CITY OF***	**2**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	2		Grd Level-Contract Svcs	7107.6 · Grd Level-Contract Svcs	4,669.50
TOTAL						4,669.50
Bill Pmt -Check	**11/09/2011**	**15543**	**DIRECTV**	**019447404**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	019447404		Monthly Service for 10/19/11-11/18/11	6031.7 · Other Office Supplies	86.99
TOTAL						86.99
Bill Pmt -Check	**11/09/2011**	**15544**	**HAUGHEY, TOM**	**10/27/2011 Board Meeting**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	**11/09/2011**	**15545**	**HOGAN LOVELLS**	**2621508**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	2621508		Non-Ag Legal Services - September 2011	8567 · Non-Ag Legal Service	8,154.20
TOTAL						8,154.20
Bill Pmt -Check	**11/09/2011**	**15546**	**KUHN, BOB**		**1012 · Bank of America Gen'l Ckg**	
Bill	10/05/2011	10/05 Admin Mtg		10/05/11 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	10/12/2011	10/12 Admin Mtg		10/12/11 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	10/19/2011	10/19 Admin Mtg		10/19/11 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	6311 · Board Member Compensation	125.00

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	10/26/2011	10/26 Admin Mtg		10/26/11 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						750.00
Bill Pmt -Check	**11/09/2011**	**15547**	**LANTZ, PAULA**	**10/27/11 Board Meeting**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	**11/09/2011**	**15548**	**NORDBAK'S PROMOTIONAL PRODUCTS**	**102111**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	102111		Watermaster logo jacket for staff member	6154 · Uniforms	68.59
TOTAL						68.59
Bill Pmt -Check	**11/09/2011**	**15549**	**PARK PLACE COMPUTER SOLUTIONS, INC.**	**456**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	456		IT Services - October 2011	6052.1 · Park Place Comp Solutn	2,700.00
TOTAL						2,700.00
Bill Pmt -Check	**11/09/2011**	**15550**	**PAYCHEX**	**2011102700**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	2011102700		Payroll Processing Services - October 2011	6012 · Payroll Services	252.02
TOTAL						252.02
Bill Pmt -Check	**11/09/2011**	**15551**	**PURCHASE POWER**	**8000909000168851**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	8000909000168851		Check for audit software- ACOPEB Software	6062 · Audit Services	35.86
				Check to WE Inc #15450	6042 · Postage - General	20.55
				Letters to potentially affected parties re desalter	7306 · PE3&5-Other Expense	564.50
				Check #15440 to IEUA	6042 · Postage - General	23.70
TOTAL						644.61
Bill Pmt -Check	**11/09/2011**	**15552**	**STANDARD INSURANCE CO.**	**Policy # 00-640888-0009**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	006408880009		Insurance Premium-Policy # 00-640888-0009	60191 · Life & Disab.Ins Benefits	525.66
TOTAL						525.66
Bill Pmt -Check	**11/09/2011**	**15553**	**UNITED HEALTHCARE**	**C0025643051**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	C0025643051		Dental Premium - October 2011	60182.2 · Dental & Vision Ins	355.62
TOTAL						355.62
Bill Pmt -Check	**11/09/2011**	**15554**	**VANDEN HEUVEL, GEOFFREY**	**6311**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	6311 · Board Member Compensation	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 · Board Member Compensation	125.00
Bill	10/28/2011	10/28 Court Hearing		10/28/11 Court Hearing	6311 · Board Member Compensation	125.00
TOTAL						375.00
General Journal	**11/12/2011**	**11/12/2011**	**Payroll and Taxes for 10/30/11-11/12/11**	**Payroll and Taxes for 10/30/11-11/12/11**	**1012 · Bank of America Gen'l Ckg**	
				Payroll Taxes for 10/30/11-11/12/11	1012 · Bank of America Gen'l Ckg	11,878.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
				Direct Deposits for 10/30/11-11/12/11	1012 · Bank of America Gen'l Ckg	42,560.57
TOTAL						54,438.57
Bill Pmt -Check	**11/15/2011**	**15555**	**ACWA SERVICES CORPORATION**	**00198**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/09/2011	00198		Prepayment - December 2011	1409 · Prepaid Life, BAD&D & LTD	136.40
				Insurance Premium - November 2011	60191 · Life & Disab.Ins Benefits	121.73
TOTAL						258.13
Bill Pmt -Check	**11/15/2011**	**15556**	**CITISTREET**	**Payroll and Taxes for 10/16/11-10/29/11**	**1012 · Bank of America Gen'l Ckg**	
General Journal	10/29/2011	10/29/2011	CITISTREET	457 Deferred Comp for 10/16/11-10/29/11	2000 · Accounts Payable	2,805.62
TOTAL						2,805.62
Bill Pmt -Check	**11/15/2011**	**15557**	**CORELOGIC INFORMATION SOLUTIONS**	**80337952**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	80337952		80337952	7103.7 · Grdwtr Qual-Computer Svc	62.50
				80337952	7101.4 · Prod Monitor-Computer	62.50
TOTAL						125.00
Bill Pmt -Check	**11/15/2011**	**15558**	**DC LAW**	**15289**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	15289		Ag Pool Legal Services	8467 · Ag Legal & Technical Services	227.50
TOTAL						227.50
Bill Pmt -Check	**11/15/2011**	**15559**	**GREAT AMERICA LEASING CORP.**	**11520233**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	11520233		Monthly Lease	6043.1 · Ricoh Lease Fee	2,788.53
				Usage for Black Copies	6043.2 · Ricoh Usage & Maintenance Fee	354.29
				Usage for Color Copies	6043.2 · Ricoh Usage & Maintenance Fee	1,011.82
TOTAL						4,154.64
Bill Pmt -Check	**11/15/2011**	**15560**	**GUARANTEED JANITORIAL SERVICE, INC.**	**28755**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/01/2011	28755		Service - November 2011	6024 · Building Repair & Maintenance	865.00
TOTAL						865.00
Bill Pmt -Check	**11/15/2011**	**15561**	**HSBC BUSINESS SOLUTIONS**	**7003-7309-1000-2744**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	7003730910002744		Miscellaneous office supplies	6031.7 · Other Office Supplies	620.44
TOTAL						620.44
Bill Pmt -Check	**11/15/2011**	**15562**	**IAAP**	**93902097**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/02/2011	93902097		Annual dues for J. Wilson IAAP membership	6111 · Membership Dues	128.00
TOTAL						128.00
Bill Pmt -Check	**11/15/2011**	**15563**	**JAMES JOHNSTON**	**245**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	245		Website Services - October 2011	6052.3 · Website Consulting	810.00
TOTAL						810.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

	Type	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	**11/15/2011**	**15564**	**PAUL HASTINGS LLP**	**1898131 / 1900696**	**1012 · Bank of America Gen'l Ckg**	
	Bill	10/31/2011	1898131 / 1900696		Ag Pool Legal Services - September 2011	8467 · Ag Legal & Technical Services	7,268.73
					Ag Pool Legal Services - October 2011	8467 · Ag Legal & Technical Services	7,900.00
TOTAL							15,168.73
	Bill Pmt -Check	**11/15/2011**	**15565**	**PREMIERE GLOBAL SERVICES**	**09656040**	**1012 · Bank of America Gen'l Ckg**	
	Bill	10/31/2011	09656040		CDA calls 9/28, 10/12, 10/17, 10/19, & 10/26	7305 · PE3&5-Supplies	506.92
					Appropriative pool agenda call on 10/04	8312 · Meeting Expenses	10.16
					Ag pool agenda call on 10/04	8412 · Meeting Expenses	10.16
					Non ag pool agenda call on 10/04	8512 · Meeting Expense	10.16
					Non ag pool meeting call on 10/13	8512 · Meeting Expense	161.68
					Preemptive replenishment call on 10/14	6909.1 · OBMP Meetings	52.69
					Monthly and service fees	6022 · Telephone	32.68
TOTAL							784.45
	Bill Pmt -Check	**11/15/2011**	**15566**	**PUBLIC EMPLOYEES' RETIREMENT SYSTEM**	**Payor #3493**	**1012 · Bank of America Gen'l Ckg**	
	General Journal	10/29/2011	10/29/2011	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS retirement for 10/16/11-10/29/11	2000 · Accounts Payable	8,134.25
TOTAL							8,134.25
	Bill Pmt -Check	**11/15/2011**	**15567**	**QUILL**	**7539095**	**1012 · Bank of America Gen'l Ckg**	
	Bill	10/29/2011	7539095		5 packs of refill paper for minute books	6031.7 · Other Office Supplies	245.08
TOTAL							245.08
	Bill Pmt -Check	**11/15/2011**	**15568**	**SAFEGUARD DENTAL & VISION**	**4028166**	**1012 · Bank of America Gen'l Ckg**	
	Bill	11/09/2011	4028166		Dental premium - November 2011	60182.2 · Dental & Vision Ins	7.91
TOTAL							7.91
	Bill Pmt -Check	**11/15/2011**	**15569**	**SAN BERNARDINO COUNTY FLOOD CONTROL I**	**FC 082/12**	**1012 · Bank of America Gen'l Ckg**	
	Bill	11/02/2011	FC 082/12		San Sevaine Channel Reconstruction Project	7207 · Comp Recharge-Other	187,492.20
TOTAL							187,492.20
	Bill Pmt -Check	**11/15/2011**	**15570**	**STAPLES BUSINESS ADVANTAGE**	**8020006876**	**1012 · Bank of America Gen'l Ckg**	
	Bill	10/31/2011	8020006876		Copy paper	6031.1 · Copy Paper	367.92
					Binders	6031.7 · Other Office Supplies	261.08
TOTAL							629.00
	Bill Pmt -Check	**11/15/2011**	**15571**	**STATE WATER RESOURCES CONTROL BOARD DIV**		**1012 · Bank of America Gen'l Ckg**	
	Bill	11/09/2011	A028473		Water Rights Fee A028473	7205 · Comp Recharge-Other Expense	899.50
	Bill	11/09/2011	A028996		Water Rights Fee A028996	7205 · Comp Recharge-Other Expense	1,499.50
	Bill	11/09/2011	A031369		Water Rights Fee A031369	7205 · Comp Recharge-Other Expense	3,574.50
TOTAL							5,973.50
	Bill Pmt -Check	**11/15/2011**	**15572**	**THE LAWTON GROUP**	**6017**	**1012 · Bank of America Gen'l Ckg**	

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	10/23/2011	1VC070000017701		Week ending 10/23/11	6017 · Temporary Services	824.00
Bill	10/31/2011	1VC070000017732		Week ending 10/30/11	6017 · Temporary Services	659.20
TOTAL						1,483.20
Bill Pmt -Check	**11/15/2011**	**15573**	**UNION 76**	**300-732-989**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	300732989		Fuel costs - October 2011	6175 · Vehicle Fuel	190.78
TOTAL						190.78
Bill Pmt -Check	**11/15/2011**	**15574**	**VERIZON**		**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	012519116950792103		012519116950792103	6022 · Telephone	556.24
Bill	10/31/2011	012561121521714508		012561121521714508	7405 · PE4-Other Expense	167.20
TOTAL						723.44
Bill Pmt -Check	**11/15/2011**	**15575**	**WESTERN DENTAL SERVICES, INC.**	**002483**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/09/2011	002483		Dental premium - December 2011	60182.2 · Dental & Vision Ins	28.88
TOTAL						28.88
Bill Pmt -Check	**11/15/2011**	**15576**	**YUKON DISPOSAL SERVICE**	**08-K2 213849**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/03/2011	08-k2 213849		Disposal service for November 2011	6024 · Building Repair & Maintenance	106.53
TOTAL						106.53
Bill Pmt -Check	**11/15/2011**	**15577**	**DE BOOM, NATHAN**	**AG Pool Member Meeting Compensation**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8411 · Compensation	25.00
				AG Pool Member Meeting Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	**11/15/2011**	**15578**	**DURRINGTON, GLEN**	**AG POOL MEMBER COMPENSATION**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8411 · Compensation	25.00
				AG Pool Member Meeting Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	**11/15/2011**	**15579**	**FEENSTRA, BOB**	**AG Pool Member Meeting Compensation**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/12/2011	10/12 Ontario Mtg		10/12/11 Ontario Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/12/2011	10/12 CDA Mtg		10/12/11 CDA Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 CDA Mtg		10/13/11 CDA Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						625.00
Bill Pmt -Check	**11/15/2011**	**15580**	**HALL, PETE***	**AG Pool Member Meeting Compensation**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						250.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	**11/15/2011**	**15581**	**HUITSING, JOHN**	**Ag Pool Member Compensation**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						125.00
Bill Pmt -Check	**11/15/2011**	**15582**	**KOOPMAN, GENE**	**AG Pool Member Meeting Compensation**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8411 · Compensation	25.00
				AG Pool Member Meeting Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	**11/15/2011**	**15583**	**PIERSON, JEFFREY**	**AG Pool Member Meeting Compensation**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/12/2011	10/12 Ontario Mtg		10/12/11 Ontario Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/12/2011	10/12 CDA Mtg		10/12/11 CDA Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 CDA Mtg		10/13/11 CDA Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						750.00
Bill Pmt -Check	**11/16/2011**	**15584**	**ALVAREZ, DESI**	**Travel Expense Reimbursement**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011			Parking-MWD Workgroup - 9/26, 10/11, & 10/17	6909.1 · OBMP Meetings	38.00
TOTAL						38.00
Bill Pmt -Check	**11/16/2011**	**15585**	**CUCAMONGA VALLEY WATER DISTRICT**	**Lease Due December 1, 2011**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/15/2011			Lease Due December 1, 2011	1422 · Prepaid Rent	5,984.00
TOTAL						5,984.00
Bill Pmt -Check	**11/16/2011**	**15586**	**GRAINGER**	**9681299310**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/08/2011	9681299310		9681299310	7103.6 · Grdwtr Qual-Supplies	210.30
TOTAL						210.30
Bill Pmt -Check	**11/16/2011**	**15587**	**MCCALL'S METER SALES & SERVICE**	**21571**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/24/2011	21571		21571	7102.8 · In-line Meter-Calib & Test	1,800.00
				21571	7102.5 · In-line Meter-Computer	150.00
TOTAL						1,950.00
Bill Pmt -Check	**11/16/2011**	**15588**	**MWH LABORATORIES**		**1012 · Bank of America Gen'l Ckg**	
Bill	10/26/2011	L0072489		L0072489 - PE6&7-Contract Svcs (Plume)	7503 · PE6&7-Contract Svcs (Plume)	2,074.00
Bill	10/31/2011	L0071783		L0071783 - PE6&7-Contract Svcs (Plume)	7503 · PE6&7-Contract Svcs (Plume)	838.00
Bill	10/31/2011	L0071811		L0071811 - PE6&7-Contract Svcs (Plume)	7503 · PE6&7-Contract Svcs (Plume)	1,456.00
TOTAL						4,368.00
Bill Pmt -Check	**11/16/2011**	**15589**	**STAULA, MARY L**	**Retiree Medical - CalPERS**	**1012 · Bank of America Gen'l Ckg**	

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/30/2011				60182.4 · Retiree Medical	136.61
TOTAL						136.61
Bill Pmt -Check	**11/16/2011**	**15590**	**TELECOM SERVICES**	**5452**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/10/2011	5452		Make changes to voice-mail system	6022 · Telephone	125.00
TOTAL						125.00
Bill Pmt -Check	**11/16/2011**	**15591**	**THE LAWTON GROUP**	**6017**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/06/2011	1VC070000017765		Week ending 11/06/11	6017 · Temporary Services	659.20
TOTAL						659.20
Bill Pmt -Check	**11/16/2011**	**15592**	**VERIZON BUSINESS**	**61416334**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/10/2011	61416334		Service period 12/01/11 -12/31/11	6053 · Internet Expense	1,545.23
TOTAL						1,545.23
Bill Pmt -Check	**11/16/2011**	**15593**	**VERIZON WIRELESS**	**1027597499**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/10/2011	1027597499		Monthly service	6022 · Telephone	382.86
TOTAL						382.86
Bill Pmt -Check	**11/17/2011**	**15594**	**CALIFORNIA WATER AWARENESS CAMPAIGN**	**643**	**1012 · Bank of America Gen'l Ckg**	
Bill	10/24/2011	643		2012 California Water Awareness Campaign	6500 · Education Funds Use Expens	375.00
TOTAL						375.00
Bill Pmt -Check	**11/18/2011**	**15595**	**CITISTREET**	**Payroll and Taxes for 10/30/11-11/12/11**	**1012 · Bank of America Gen'l Ckg**	
General Journal	11/12/2011	11/12/2011	CITISTREET	457 Deferred Comp for 10/30/11-11/12/11	2000 · Accounts Payable	2,805.62
TOTAL						2,805.62
Bill Pmt -Check	**11/18/2011**	**15596**	**PUBLIC EMPLOYEES' RETIREMENT SYSTEM**	**Payor #3493**	**1012 · Bank of America Gen'l Ckg**	
General Journal	11/12/2011	11/12/2011	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS retirement for 10/30/11-11/12/11	2000 · Accounts Payable	8,357.23
TOTAL						8,357.23
Bill Pmt -Check	**11/18/2011**	**15597**	**PUBLIC EMPLOYEES' RETIREMENT SYSTEM**	**Payor #3493**	**1012 · Bank of America Gen'l Ckg**	
General Journal	11/12/2011	11/12/2011	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS retirement for 10/30/11-11/12/11	2000 · Accounts Payable	3,626.41
TOTAL						3,626.41
Bill Pmt -Check	**11/23/2011**	**15598**	**INLAND EMPIRE UTILITIES AGENCY**	**900089537-2**	**1012 · Bank of America Gen'l Ckg**	
Bill	09/30/2011	900089537-2		900089537-2	1420 · Prepaid Injected Water Purchase	100,629.87
				900089537-2	1420 · Prepaid Injected Water Purchase	133,344.60
				900089537-2	5011 · Replenishment Water	549,300.80
TOTAL						783,275.27
Bill Pmt -Check	**11/23/2011**	**15599**	**INLAND EMPIRE UTILITIES AGENCY**	**900089537-1**	**1012 · Bank of America Gen'l Ckg**	
Bill	09/30/2011	900089537-1		900089537-1	5011 · Replenishment Water	1,407,265.14

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						1,407,265.14
General Journal	11/26/2011	11/26/2011	Payroll and Taxes for 11/13/11-11/26/11	Payroll and Taxes for 11/13/11-11/26/11	1012 · Bank of America Gen'l Ckg	
				Payroll Taxes for 11/13/11-11/26/11	1012 · Bank of America Gen'l Ckg	8,732.06
				Direct Deposits for 11/13/11-11/26/11	1012 · Bank of America Gen'l Ckg	26,589.06
TOTAL						35,321.12
Bill Pmt -Check	11/30/2011	15600	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
Bill	10/31/2011	443939		443939 - BHFS Legal - Appropriative Pool	8375 · BHFS Legal - Appropriative Pool	1,729.20
				443939 - BHFS Legal - Agricultural Pool	8475 · BHFS Legal - Agricultural Pool	1,939.80
				443939 - BHFS Legal - Non-Ag Pool	8575 · BHFS Legal - Non-Ag Pool	2,440.20
				443939 - BHFS Legal - Advisory Committee	6275 · BHFS Legal - Advisory Committee	3,021.75
				443939 - BHFS Legal - Board Meeting	6375 · BHFS Legal - Board Meeting	8,032.30
				443939 - BHFS Legal - Restated Judgment	6072 · BHFS Legal - Restated Judgment	1,525.05
				443939 - BHFS Legal - Personnel Matters	6073 · BHFS Legal - Personnel Matters	1,053.00
				443939 - BHFS Legal - Interagency Issues	6074 · BHFS Legal - Interagency Issues	2,878.65
				443939 - BHFS Legal - Replenishmnt Water	6075 · BHFS Legal - Replenishmnt Water	10,863.90
				443939 - BHFS Legal - Miscellaneous	6078 · BHFS Legal - Miscellaneous	2,099.70
				443939 - BHFS Legal - Miscellaneous	6078 · BHFS Legal - Miscellaneous	5,019.47
				443939 - Paragraph 31 Motion	6907.35 · Paragraph 31 Motion	1,537.65
Bill	10/31/2011	443940		443940 - Santa Ana River Water Rights	6907.34 · Santa Ana River Water Rights	1,045.37
Bill	10/31/2011	443941		443941 - Desalter Negotiations	6907.33 · Desalter Negotiations	18,560.99
Bill	10/31/2011	443942		443942 - Paragraph 31 Motion	6907.35 · Paragraph 31 Motion	2,787.76
Bill	10/31/2011	443943		443943 - Santa Ana River Habitat	6907.36 · Santa Ana River Habitat	113.88
TOTAL						64,648.67
Bill Pmt -Check	11/30/2011	15601	MWH LABORATORIES		1012 · Bank of America Gen'l Ckg	
Bill	10/31/2011	L0068025		L0068025	7108.4 · Hydraulic Control-Lab Svcs	615.00
Bill	10/31/2011	L0068026		L0068026	7108.4 · Hydraulic Control-Lab Svcs	2,065.00
Bill	10/31/2011	L0068110		L0068110	7108.4 · Hydraulic Control-Lab Svcs	2,042.00
Bill	10/31/2011	L0068108		L0068108	7108.4 · Hydraulic Control-Lab Svcs	2,065.00
Bill	10/31/2011	L0069299		L0069299	7108.4 · Hydraulic Control-Lab Svcs	2,065.00
Bill	10/31/2011	L0070049		L0070049	7108.4 · Hydraulic Control-Lab Svcs	2,065.00
Bill	10/31/2011	L0070050		L0070050	7108.4 · Hydraulic Control-Lab Svcs	615.00
Bill	10/31/2011	L0070714		L0070714	7108.4 · Hydraulic Control-Lab Svcs	2,065.00
Bill	10/31/2011	L0071833		L0071833	7108.4 · Hydraulic Control-Lab Svcs	2,065.00
Bill	10/31/2011	L0070666		L0070666	7108.4 · Hydraulic Control-Lab Svcs	615.00
Bill	10/31/2011	L0070717		L0070717	7108.4 · Hydraulic Control-Lab Svcs	1,332.00
Bill	10/31/2011	L0071812		L0071812	7108.4 · Hydraulic Control-Lab Svcs	2,135.00
Bill	10/31/2011	L0071813		L0071813	7108.4 · Hydraulic Control-Lab Svcs	2,065.00
Bill	10/31/2011	L0071815		L0071815	7108.4 · Hydraulic Control-Lab Svcs	615.00
Bill	10/31/2011	L0071818		L0071818	7108.4 · Hydraulic Control-Lab Svcs	1,770.00
TOTAL						24,194.00

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	**11/30/2011**	**15602**	**RAUCH COMMUNICATION CONSULTANTS, LLC**	**Nov-1106**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/18/2011	Nov-1106		Progress billing - Annual Report	6061.3 · Rauch	1,290.00
TOTAL						1,290.00
Bill Pmt -Check	**11/30/2011**	**15603**	**WILDERMUTH ENVIRONMENTAL INC**		**1012 · Bank of America Gen'l Ckg**	
Bill	10/31/2011	2011401		2011401 - Grd Level-Engineering	7107.2 · Grd Level-Engineering	10,262.50
Bill	10/31/2011	2011402		2011402 - OBMP - Watermaster Model Update	6906.1 · OBMP - Watermaster Model Update	34,494.83
Bill	10/31/2011	2011403		2011403 - OBMP Engineering Services	6906 · OBMP Engineering Services	13,266.57
Bill	10/31/2011	2011404		2011404 - OBMP Engineering Services	6906 · OBMP Engineering Services	1,393.75
Bill	10/31/2011	2011405		2011405 - OBMP Engineering Services	6906 · OBMP Engineering Services	7,686.93
Bill	10/31/2011	2011406		2011406 - OBMP Engineering Services	6906 · OBMP Engineering Services	6,596.06
Bill	10/31/2011	2011407		2011407 - Grdwtr Level-Engineering	7104.3 · Grdwtr Level-Engineering	16,238.98
Bill	10/31/2011	2011408		2011408 - Grdwtr Qual-Engineering	7103.3 · Grdwtr Qual-Engineering	13,122.02
Bill	10/31/2011	2011409		2011409 - Hydraulic Control-Engineering	7108.3 · Hydraulic Control-Engineering	4,743.75
Bill	10/31/2011	2011410		2011410 - Hydraulic Control-Engineering	7108.3 · Hydraulic Control-Engineering	2,934.50
Bill	10/31/2011	2011411		2011411 - Hydraulic Control-Engineering	7108.3 · Hydraulic Control-Engineering	11,090.98
Bill	10/31/2011	2011412		2011412 - Grd Level-Engineering	7107.2 · Grd Level-Engineering	25,072.04
				2011412 - Grd Level-Contract Svcs	7107.6 · Grd Level-Contract Svcs	32,042.17
Bill	10/31/2011	2011413		2011413 - PE3&5-Engineering	7303 · PE3&5-Engineering	4,537.50
Bill	10/31/2011	2011414		2011414 - PE4-Engineering	7402 · PE4-Engineering	887.50
Bill	10/31/2011	2011415		2011415 - OBMP Engineering Services	6906 · OBMP Engineering Services	2,326.25
Bill	10/31/2011	2011416		2011416 - Comp Recharge-Implementation	7202.3 · Comp Recharge-Implementation	14,112.59
Bill	10/31/2011	2011417		2011417 - OBMP Engineering Services	6906 · OBMP Engineering Services	113.14
Bill	10/31/2011	2011418		2011418 - OBMP Engineering Services	6906 · OBMP Engineering Services	918.75
TOTAL						201,840.81
Bill Pmt -Check	**11/30/2011**	**15604**	**ARROWHEAD MOUNTAIN SPRING WATER**	**0023230253**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/18/2011	0023230253		Office Water Bottle - November 2011	6031.7 · Other Office Supplies	35.68
TOTAL						35.68
Bill Pmt -Check	**11/30/2011**	**15605**	**COMPUTER NETWORK**		**1012 · Bank of America Gen'l Ckg**	
Bill	11/23/2011	82883		Service/labor for workstation repair	6057 · Computer Maintenance	65.00
Bill	11/23/2011	82880		External hard drive	6055 · Computer Hardware	342.65
TOTAL						407.65
Bill Pmt -Check	**11/30/2011**	**15606**	**GROOMAN'S PUMP & WELL DRILLING, INC.**		**1012 · Bank of America Gen'l Ckg**	
Bill	11/19/2011	12905		12905	7103.4 · Grdwtr Qual-Contract Svc	425.00
Bill	11/19/2011	12903		12903	7102.7 · In-line Meter	279.39
TOTAL						704.39
Bill Pmt -Check	**11/30/2011**	**15607**	**LOS ANGELES TIMES**	**9821161016**	**1012 · Bank of America Gen'l Ckg**	
Bill	11/18/2011	010006926943		Delivery service for 12/07/11-12/02/12	6112 · Subscriptions/Publications	374.15

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						374.15
Bill Pmt -Check	11/30/2011	15608	SAN BERNARDINO COUNTY FLOOD CONTROL D	FC 089/12	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2011	FC 089/12		San Sevaine Channel Reconstruction Project	7207 · Comp Recharge-Other	34,452.41
TOTAL						34,452.41
Bill Pmt -Check	11/30/2011	15609	STANDARD INSURANCE CO.	Policy # 00-640888-0009	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2011	006408880009		Life/AD&D Premium - Policy # 00-640888-0009	60191 · Life & Disab.Ins Benefits	539.66
TOTAL						539.66
Bill Pmt -Check	11/30/2011	15610	STATE COMPENSATION INSURANCE FUND	1970970-11	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2011	1970970-11		Workers Comp Premium - November 2011	60183 · Worker's Comp Insurance	1,413.45
TOTAL						1,413.45
Bill Pmt -Check	11/30/2011	15611	THE LAWTON GROUP	6017	1012 · Bank of America Gen'l Ckg	
Bill	11/13/2011	1VC 70000017798		Week ending 11/13/11	6017 · Temporary Services	824.00
TOTAL						824.00
Bill Pmt -Check	11/30/2011	15612	UNITED HEALTHCARE	0025982644	1012 · Bank of America Gen'l Ckg	
Bill	11/29/2011	0025982644		Dental premium - December 2011	60182.2 · Dental & Vision Ins	447.47
TOTAL						447.47
Bill Pmt -Check	11/30/2011	15613	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
Bill	11/29/2011	001017890001		Vision premium - December 2011	60182.2 · Dental & Vision Ins	25.08
TOTAL						25.08
Bill Pmt -Check	11/30/2011	15614	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	11/15/2011	1394905143		Medical premium - December 2011	60182.1 · Medical Insurance	5,526.03
TOTAL						5,526.03
Bill Pmt -Check	11/30/2011	15615	CUCAMONGA VALLEY IAAP	December 7, 2011 Cucamonga Valley IAAP Chapt	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2011			Wilson & Molino- attend IAAP meeting	6192 · Training & Seminars	60.00
TOTAL						60.00
Bill Pmt -Check	11/30/2011	15616	DIRECTV	019447404	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2011	019447404		Monthly service for 11/19/11-12/18/11	6031.7 · Other Office Supplies	86.99
TOTAL						86.99
Bill Pmt -Check	11/30/2011	15617	FEENSTRA, BOB	Reimbursement for Court Hearing Expenses	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2011			Reimbursement-Oct. 28, 2011 Court expenses	8485 · Ag Pool - Misc. Expense-Ag Fund	99.34
TOTAL						99.34
Bill Pmt -Check	11/30/2011	15618	MCCALL'S METER SALES & SERVICE		1012 · Bank of America Gen'l Ckg	

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2011

	Type	Date	Num	Name	Memo	Account	Paid Amount
	Bill	11/03/2011	21633		21633	7102.8 · In-line Meter-Calib & Test	1,200.00
	Bill	11/11/2011	21664		21664	7102.8 · In-line Meter-Calib & Test	1,250.00
TOTAL							2,450.00
	Bill Pmt -Check	**11/30/2011**	**15619**	**OFFICE DEPOT**	**586138773001**	**1012 · Bank of America Gen'l Ckg**	
	Bill	11/10/2011	586138773001		Plaque, post its, paper pads	6031.7 · Other Office Supplies	58.35
TOTAL							58.35
	Bill Pmt -Check	**11/30/2011**	**15620**	**PAUL HASTINGS LLP**	**1904562**	**1012 · Bank of America Gen'l Ckg**	
	Bill	10/31/2011	1904562		Ag Pool Legal Services - October 2011	8467 · Ag Legal & Technical Services	8,746.25
TOTAL							8,746.25
	Bill Pmt -Check	**11/30/2011**	**15621**	**PRE-PAID LEGAL SERVICES, INC.**	**111802**	**1012 · Bank of America Gen'l Ckg**	
	Bill	11/28/2011	111802		Employee paid services - November 2011	60194 · Other Employee Insurance	51.80
TOTAL							51.80
	Bill Pmt -Check	**11/30/2011**	**15622**	**R&D PEST SERVICES**	**0149473**	**1012 · Bank of America Gen'l Ckg**	
	Bill	11/18/2011	0149473		Monthly insect and pest treatment	6024 · Building Repair & Maintenance	85.00
TOTAL							85.00
	Bill Pmt -Check	**11/30/2011**	**15623**	**STAPLES BUSINESS ADVANTAGE**	**8020205567**	**1012 · Bank of America Gen'l Ckg**	
	Bill	11/13/2011	8020205567		Copy paper	6031.1 · Copy Paper	183.96
					Tapes, pens, misc. expenses	6031.7 · Other Office Supplies	96.87
TOTAL							280.83
	Bill Pmt -Check	**11/30/2011**	**15624**	**THE LAWTON GROUP**	**6017**	**1012 · Bank of America Gen'l Ckg**	
	Bill	11/29/2011	IVC070000017829		Week ending 11/20/11	6017 · Temporary Services	824.00
TOTAL							824.00
	General Journal	**11/30/2011**	**11/30/2011**	**Wage Works Direct Debits - Nov. 2011**	**Wage Works Direct Debits - Nov. 2011**	**1012 · Bank of America Gen'l Ckg**	
					Wage Works Direct Debits - November 2011	1012 · Bank of America Gen'l Ckg	495.40
					Wage Works Direct Debits - November 2011	1012 · Bank of America Gen'l Ckg	495.40
					Wage Works Direct Debits - November 2011	1012 · Bank of America Gen'l Ckg	76.25
TOTAL							1,067.05
						Total Disbursements:	**4,155,940.20**

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CHINO BASIN WATERMASTER

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STAFF REPORT

DATE: **January 19, 2012**

TO: **Committee Members**

SUBJECT: **VISA Check Detail Report – Financial Report B2**

SUMMARY

Issue – Record of VISA credit card payment disbursed for the month of November 2011.

Recommendation – Staff recommends the VISA Check Detail Report for November 2011 be received and filed as presented.

Fiscal Impact – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

BACKGROUND

A monthly VISA Check Detail report is provided to keep all members apprised of Watermaster expenditures charged against the CEO and/or CFO's Bank of America VISA card.

DISCUSSION

Total cash disbursement during the month of November 2011 was $0.00 due to a credit on the bill of ($1,092.00) for a returned meter used by the field staff, which was originally purchased in August 2011. The monthly charges for November 2011 were for routine and customary expenditures and properly documented with receipts.

Actions:
January 12, 2012 Appropriative Pool – Approved unanimously
January 12, 2012 Non-Agricultural Pool – Moved to receive and file
January 12, 2012 Agricultural Pool – Approved unanimously
January 19, 2012 Advisory Committee –
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER
VISA Check Detail Report
November 2011

Type	Num	Date	Name	Memo	Account
No payment to Bank of America for the VISA card in November due to a credit of ($1,092.00) received for a returned purchase of equipment.					
		10/27/2011		Holiday Classis - Watermaster Christmas Cards	6031.7 - Other Office Supplies
		10/28/2011		GeoTech Env. Equipment, Inc.	7103.6 - Grdwtr Qual-Supplies
		10/29/2011		Ontario Panda Inn - Board Meeting	6312 - Meeting Expenses
					Total Disbursements:

CHINO BASIN WATERMASTER
VISA Check Detail Report
November 2011

Paid Amount
422.50
(1,092.00)
557.01
(112.49)

CHINO BASIN WATERMASTER

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

STAFF REPORT

DATE: January 19, 2012

TO: Committee Members

SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2011 through November 30, 2011 - Financial Report B3

SUMMARY

Issue – Record of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2011 through November 30, 2011.

Recommendation – Staff recommends the Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2011 through November 30, 2011 be received and filed as presented.

Fiscal Impact – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Working Capital for the period July 1, 2011 through November 30, 2011 is provided to keep all members apprised of the FY 2011/2012 cumulative Watermaster revenues, expenditures and changes in working capital for the period listed.

DISCUSSION

The Combining Schedule of Revenue, Expenses and Changes in Working Capital has been created from various financial reports and statements created from QuickBooks Enterprise Solutions 9.0, the Watermaster accounting system. The Combining Schedule provided balances to the supporting documentation in the Watermaster accounting system as presented.

Actions:
January 12, 2012 Appropriative Pool – Approved unanimously
January 12, 2012 Non-Agricultural Pool – Moved to receive and file
January 12, 2012 Agricultural Pool – Approved unanimously
January 19, 2012 Advisory Committee –
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER
COMBINING SCHEDULE OF REVENUE, EXPENSES AND CHANGES IN WORKING CAPITAL
FOR THE PERIOD JULY 1, 2011 THROUGH NOVEMBER 30, 2011

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION & SPECIAL PROJECTS: APPROPRIATIVE POOL	AG POOL	NON-AG POOL	GROUNDWATER OPERATIONS: GROUNDWATER REPLENISHMENT	SB222 FUNDS	EDUCATION FUNDS	GRAND TOTALS	BUDGET 2011-2012
Administrative Revenues:										
Administrative Assessments									-	$6,097,177
Interest Revenue			4,820	456	182			1	5,458	150,010
Mutual Agency Project Revenue	405,777								405,777	411,000
Grant Income									-	0
Miscellaneous Income									-	0
Total Revenues	405,777	-	4,820	456	182	-	-	1	411,234	6,658,187
Administrative & Project Expenditures:										
Watermaster Administration	322,390								322,390	425,107
Watermaster Board-Advisory Committee	86,162								86,162	155,297
Ag Pool Misc. Expense - Ag Fund				99					99	-
Pool Administration			20,412	60,206	69,320				149,938	503,822
Optimum Basin Mgmt Administration		623,914							623,914	1,161,401
OBMP Project Costs		1,565,225							1,565,225	4,166,221
Debt Service		471,400							471,400	450,964
Education Funds Use								375	375	375
Mutual Agency Project Costs									-	10,000
Total Administrative/OBMP Expenses	408,553	2,660,539	20,412	60,206	69,320	-	-	375	3,219,504	6,873,187
Net Administrative/OBMP Expenses	(2,776)	(2,660,539)								
Allocate Net Admin Expenses To Pools	2,776		1,909	772	95				-	
Allocate Net OBMP Expenses To Pools		2,189,139	1,505,364	609,057	74,718				-	
Allocate Debt Service to App Pool		471,400	471,400						-	
Agricultural Expense Transfer*			670,035	(670,035)					-	
Total Expenses			2,669,119	99	144,134	-	-	375	3,219,504	6,873,187
Net Administrative Income			(2,664,300)	356	(143,952)	-	-	(374)	(2,808,270)	(215,000)
Other Income/(Expense)										
Replenishment Water Assessments									-	0
Non-Ag Stored Water Purchases						2,377,250			2,377,250	0
Interest Revenue						7			7	0
MWD Water Purchases						10,269,933			10,269,933	0
Non-Ag Stored Water Purchases						(2,377,250)			(2,377,250)	0
MWD Water Purchases						(10,269,932)			(10,269,932)	0
Groundwater Replenishment						(25,146)			(25,146)	0
Net Other Income/(Expense)			-	-	-	(25,138)	-	-	(25,138)	0
Net Transfers To/(From) Reserves		(2,833,407)	(2,664,300)	356	(143,952)	(25,138)	-	(374)	(2,833,407)	(215,000)
		-								
Working Capital, July 1, 2011			6,922,600	475,807	282,721	21,928	158,251	630	7,861,937	
Working Capital, End Of Period			4,258,301	476,163	138,769	(3,209)	158,251	255	5,028,530	5,028,530
09/10 Assessable Production			78,733.238	31,854.766	3,907.911				114,495.915	
09/10 Production Percentages			68.765%	27.822%	3.413%				100.000%	

*Fund balance transfer as agreed to in the Peace Agreement.

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CHINO BASIN WATERMASTER

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

STAFF REPORT

DATE: **January 19, 2012**

TO: **Committee Members**

SUBJECT: **Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 - Financial Report B4**

SUMMARY

Issue – Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of November 1, 2011 through November 30, 2011.

Recommendation – Staff recommends the Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 be received and filed as presented.

Fiscal Impact – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 is provided to keep all members apprised of the total cash in banks (Bank of America and LAIF) and on hand at the Watermaster office (petty cash) at the end of the period stated. The Treasurer's Report details the change (increase or decrease) in the overall cash position of Watermaster, as well as the changes (increase or decrease) to the assets and liabilities section of the balance sheet. The report also provides a detailed listing of all deposits and/or withdrawals in the California State Treasurer's Local Agency Investment Fund (LAIF), the most current effective yield as of the last quarter, and the ending balance in LAIF as of the reporting date.

DISCUSSION

The Treasurer's Report of Financial Affairs has been created from various financial reports and statements created from QuickBooks Enterprise Solutions 9.0, the Watermaster accounting system. The Treasurer's Report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

Actions:
January 12, 2012 Appropriative Pool – Approved unanimously
January 12, 2012 Non-Agricultural Pool – Moved to receive and file
January 12, 2012 Agricultural Pool – Approved unanimously
January 19, 2012 Advisory Committee –
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
NOVEMBER 1 THROUGH NOVEMBER 30, 2011

DEPOSITORIES:			
Cash on Hand - Petty Cash			$ 500
Bank of America			
Governmental Checking-Demand Deposits		$ 1,585,188	
Zero Balance Account - Payroll		$ -	1,585,188
Local Agency Investment Fund - Sacramento			5,451,959
TOTAL CASH IN BANKS AND ON HAND	11/30/2011		**$ 7,037,647**
TOTAL CASH IN BANKS AND ON HAND	10/31/2011		6,647,553
PERIOD INCREASE (DECREASE)			**$ 390,094**

CHANGE IN CASH POSITION DUE TO:

Decrease/(Increase) in Assets:	Accounts Receivable	$ 2,558,629
	Assessments Receivable	(1,013,681)
	Prepaid Expenses, Deposits & Other Current Assets	623,622
(Decrease)/Increase in Liabilities	Accounts Payable	(1,101,653)
	Accrued Payroll, Payroll Taxes & Other Current Liabilities	4,716
	Transfer to/(from) Reserves	(681,539)
	PERIOD INCREASE (DECREASE)	**$ 390,094**

P35

SUMMARY OF FINANCIAL TRANSACTIONS:

	Petty Cash	Govt'l Checking Demand	Zero Balance Account Payroll	Local Agency Investment Funds	Totals
Balances as of 10/31/2011	$ 500	$ 4,695,093	$ -	$ 1,951,959	$ 6,647,553
Deposits	-	4,546,035	-	3,500,000	8,046,035
Transfers	-	(3,588,732)	88,732	-	(3,500,000)
Withdrawals/Checks	-	(4,067,208)	(88,732)	-	(4,155,940)
Balances as of 11/30/2011	$ 500	$ 1,585,188	$ -	$ 5,451,959	$ 7,037,647
PERIOD INCREASE OR (DECREASE)	**$ -**	**$ (3,109,906)**	**$ -**	**$ 3,500,000**	**$ 390,094**

CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
NOVEMBER 1 THROUGH NOVEMBER 30, 2011

INVESTMENT TRANSACTIONS

Effective Date	Transaction	Depository		Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
11/28/2011	Deposit	L.A.I.F	$	3,500,000				
TOTAL INVESTMENT TRANSACTIONS			**$**	**3,500,000**	**-**			

* The earnings rate for L.A.I.F. is a daily variable rate; 0.38% was the effective yield rate at the Quarter ended September 30, 2011.

INVESTMENT STATUS
November 30, 2011

Financial Institution		Principal Amount	Number of Days	Interest Rate	Maturity Date
Local Agency Investment Fund	$	5,451,959			
TOTAL INVESTMENTS	**$**	**5,451,959**			

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,

Joseph S. Joswiak
Chief Financial Officer
Chino Basin Watermaster

CHINO BASIN WATERMASTER

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

STAFF REPORT

DATE: **January 19, 2012**

TO: **Committee Members**

SUBJECT: **Budget vs. Actual Report for the Period July 1, 2011 through November 30, 2011 - Financial Report - B5**

SUMMARY

Issue – Record of revenues and expenses of Watermaster for the Period of July 1, 2011 through November 30, 2011.

Recommendation – Staff recommends the Budget vs. Actual Report for the Period July 1, 2011 through November 30, 2011 be received and filed as presented.

Fiscal Impact – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

BACKGROUND:

A Budget vs. Actual Report for the period July 1, 2011 through November 30, 2011 is provided to keep all members apprised of the total revenues and expenses for the current fiscal year. The expense section is categorized into four distinct sections. Those sections are: General and Administrative Expenses; Optimal Basin Management Program Expenses; Project Expenses; and Other Income/Expenses.

DISCUSSION:

The Budget vs. Actual report has been created from QuickBooks Enterprise Solutions 9.0, the Watermaster accounting system. The Budget vs. Actual report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

There were no budget transfers or budget amendments proposed for the month of November 2011.

Year-To-Date (YTD) for the five months ending November 30, 2011, all but seven categories were at or below the projected budget. The categories above budget were the Watermaster Salary Costs (6010's) of $2,165.05; Watermaster Legal Services (6070's) of $1,265.57; Advisory Committee Expenses (6200's) of $1,915.36; Watermaster Board Expenses (6300's) of $11,040.07; Non-Ag Pool Administration Expenses (8500's) of $26,939.88; Groundwater Quality Monitoring (7103's) of $759.37; and Cooperative Efforts/Salt Management (7500's) of $12,238.69.

With regards to the salary of the Watermaster CEO, a new line item 6011.2 (WM Staff – Administrative Paid Leave) has been created. The full salary cost of Mr. Alvarez will be charged against this line item and his costs will not be allocated to OBMP, projects, or other expense categories going forward. Added to the financial reports as part of the November reporting cycle, the chart listed below summarized the Watermaster salary costs compared to the year-to-date budget. To date, the Watermaster salary expenses are $16,870 or 2.7% below the budgeted amount of $629,062. The following details are provided:

	Jul '11 - Nov 11	Budget	$ Over Budget	% of Budget	Annual Budget
WM Salary Expense					
6011 · WM Staff Salaries	185,371.10	184,186.02	11,185.08	106.07%	441,032.00
6011.2 · WM Staff - Admin. Paid Leave	24,160.32	0.00	24,160.32	100.0%	0.00
6011.3 · WM Staff - Temporary Upgrade	1,227.50	0.00	1,227.50	100.0%	0.00
6201 · Advisory Committee - WM Staff Salaries	8,557.53	8,850.44	-292.91	96.69%	21,241.00
6301 · Watermaster Board - WM Staff Salaries	13,245.42	12,465.00	780.42	106.26%	29,916.00
8301 · Appropriative Pool - WM Staff Salaries	11,328.32	11,854.19	-525.87	95.56%	28,450.00
8401 · Agricultural Pool - WM Staff Salaries	9,330.34	10,389.56	-1,059.22	89.81%	24,935.00
8501 · Non-Agricultural Pool - WM Staff Salaries	5,019.61	5,930.44	-910.83	84.64%	14,233.00
6901 · OBMP - WM Staff Salaries	91,394.27	90,413.31	980.96	101.09%	216,992.00
7101.1 · Production Monitor - WM Staff Salaries	41,223.15	52,395.81	-11,172.66	78.68%	104,150.00
7102.1 · In-line Meter - WM Staff Salaries	4,375.82	4,317.94	57.88	101.34%	10,363.00
7103.1 · Grdwater Quality - WM Staff Salaries	37,321.89	47,414.56	-10,092.67	78.71%	80,195.00
7104.1 · Grdwater Level - WM Staff Salaries	18,192.76	37,442.94	-19,250.18	48.59%	89,863.00
7105.1 · Sur Wtr Qual - WM Staff Salaries	0.00	1,246.69	-1,246.69	0.0%	2,992.00
7107.1 · Grd Level Monitoring - WM Staff Salaries	0.00	652.50	-652.50	0.0%	1,566.00
7108.1 · Hydraulic Control - WM Staff Salaries	355.30	3,030.44	-2,675.14	11.72%	7,273.00
7201 · Comp Recharge - WM Staff Salaries	38,138.61	52,119.56	-13,980.95	73.18%	125,087.00
7301 · PE3&5 - WM Staff Salaries	11,101.56	15,642.94	-4,541.38	70.97%	37,543.00
7401 · PE4 - WM Staff Salaries	3,264.51	5,097.94	-1,833.43	64.04%	12,235.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	17,794.62	0.00	17,794.62	100.0%	0.00
7501 · PE6&7 - WM Staff Salaries	2,274.45	1,246.69	1,027.76	182.44%	2,992.00
7601 · PE8&9 - WM Staff Salaries	12,934.54	18,926.25	-5,991.71	68.34%	45,423.00
7701 · Inactive Well - WM Staff Salaries	0.00	206.50	-206.50	0.0%	413.00
Subtotal WM Staff Costs	**546,611.62**	**563,829.72**	**-17,218.10**	**96.95%**	**1,296,894.00**
60185 · Vacation	37,265.94	27,364.90	9,901.04	136.18%	51,922.00
60186 · Sick Leave	8,149.99	17,212.50	-9,062.51	47.35%	41,310.00
60187 · Holidays	20,164.40	20,655.00	-490.60	97.63%	41,310.00
Subtotal WM Paid Leaves	**65,580.33**	**65,232.40**	**347.93**	**100.53%**	**134,542.00**
Total WM Salary Costs	**612,191.95**	**629,062.12**	**-16,870.17**	**97.32%**	**1,431,436.00**

During the Budget Workshops, the Watermaster legal expenses are being allocated to the specific areas of activity. For example, the legal meeting expenses related to the Appropriative, Agricultural, and Non-Agricultural Pools as well as the Advisory Committee and Board are shown in those specific areas. General ledger accounts have been created and the expenses are appropriately categorized. This provides a clearer picture of the actual costs associated with each individual group. Also, a new category for Watermaster Legal Services (6070) was established for fiscal year 2011/2012. These expenses are associated with administrative legal services for Watermaster.

Added to the financial reports as part of the November reporting cycle, the chart listed below summarizes the Brownstein Hyatt Farber Schreck expenses compared to the year-to-date budget. To date, the BHFS expenses are $16,850 or 5.2% below the budgeted amount of $324,851. The following details are provided:

	Jul '11 - Nov '11	Budget	$ Over Budget	% of Budget	Annual Budge
6070 · Watermaster Legal Services					
6071 · BHFS Legal - Court Coordination	0.00	16,291.69	-16,291.69	0.0%	39,100.00
6072 · BHFS Legal - Restated Judgment	18,306.96	52,000.00	-33,693.04	35.21%	62,400.00
6073 · BHFS Legal - Personnel Matters	22,702.05	4,114.56	18,587.49	551.75%	9,875.00
6074 · BHFS Legal - Interagency Issues	3,510.45	14,291.69	-10,781.24	24.56%	34,300.00
6075 · BHFS Legal - Replenishmnt Water	41,607.45	0.00	41,607.45	100.0%	0.00
6076 · BHFS Legal - Miscellaneous	25,536.60	23,700.00	1,836.60	107.75%	56,880.00
Total 6070 · Watermaster Legal Services	111,663.51	110,397.94	1,265.57	101.15%	202,555.00
6275 · BHFS Legal - Advisory Committee	15,809.59	12,837.50	2,972.09	123.15%	30,810.00
6375 · BHFS Legal - Board Meeting	35,471.90	26,012.50	9,459.40	136.37%	45,630.00
8375 · BHFS Legal - Appropriative Pool	8,997.91	8,887.50	110.41	101.24%	21,330.00
8475 · BHFS Legal - Agricultural Pool	8,473.11	12,837.50	-4,364.39	66.0%	30,810.00
8575 · BHFS Legal - Non-Ag Pool	7,820.03	3,950.00	3,870.03	197.98%	9,480.00
Total BHFS Legal Services	76,572.54	64,525.00	12,047.54	118.67%	138,060.00
6907.3 · WM Legal Counsel					
6907.30 · Peace II - CEQA	0.00	0.00	0.00	0.0%	0.00
6907.31 · S. Archibald Plume-Formerly OIA	3,009.15	10,260.44	-7,251.29	29.33%	24,625.00
6907.32 · Chino Airport Plume	8,866.95	10,697.94	-1,830.99	82.89%	25,675.00
6907.33 · Desalter Negotiations	77,880.86	67,425.00	10,455.86	115.51%	67,425.00
6907.34 · Santa Ana River Water Rights	4,984.72	10,468.75	-5,484.03	47.62%	25,125.00
6907.35 · Paragraph 31 Motion	14,105.71	32,666.67	-18,560.96	43.18%	39,200.00
6907.36 · Santa Ana River Habitat	7,969.13	0.00	7,969.13	100.0%	0.00
6907.37 · Water Auction	0.00	0.00	0.00	0.0%	0.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	5,729.19	-5,729.19	0.0%	13,750.00
6907.39 · Recharge Master Plan	2,947.95	12,680.00	-9,732.05	23.25%	25,360.00
6907.3 · WM Legal Counsel - Other	0.00	0.00	0.00	0.0%	0.00
Total 6907.3 · WM Legal Counsel	119,764.47	149,927.99	-30,163.52	79.88%	221,160.00
Total Brownstein, Hyatt, Farber, Schreck Costs	**308,000.52**	**324,850.93**	**-16,850.41**	**94.81%**	**561,775.00**

OBMP Engineering Services and Legal Costs:

Several individual line items within the 6900 (Optimum Basin Mgmt Plan) are above the Year-To-Date budget. These are the 6906 (OBMP Engineering Services-Other) and the 6906.1 (OBMP Watermaster Model Update). These overages are a direct result of allocating the budget in equal 1/12 portions throughout the fiscal year. The Year-To-Date expenses in these two categories are running ahead of budget and should level off as the fiscal year progresses.

Within the category 6900 (Optimum Basin Mgmt Plan) are the remaining Watermaster's legal expenses. Within the legal expense category, some individual line item activities were above the budget $18,425 while the majority of line item activities were below the budget ($48,589). Above the budget line items were the Desalter Negotiations of $10,456 and the Santa Ana River Habitat of $7,969. The individual legal projects/activities that were below budget for the Y-T-D period were the South Archibald Plume

(formerly the OIA Plume) of ($7,252), the Chino Airport Plume ($1,831), the Santa Ana River Water Rights Application of ($5,484), the Paragraph 31 Motion of ($18,561), the Regional Water Quality Control Board of ($5,729) and the Recharge Master Plan of ($9,732). For the five month period, the cumulative Y-T-D budget was $149,928 and actual legal expenses totaled $119,764 which resulted in an (Under) budget variance of ($30,164) or (20.1%).

	Jul '11 - Nov '11	Budget	$ Over Budget	% of Budget
6900 · Optimum Basin Mgmt Plan				
6901 · WM Staff Salaries	100,277.93	90,413.31	9,864.62	110.91%
6903 · OBMP SAWPA Group	11,655.00	11,655.00	0.00	100.0%
6906 · OBMP Engineering Services				
6906.1 · OBMP - Watermaster Model Update	204,010.48	180,008.34	24,002.14	113.33%
6906 · OBMP Engineering Services - Other	114,476.72	106,753.75	7,722.97	107.23%
Total 6906 · OBMP Engineering Services	318,487.20	286,762.09	31,725.11	111.06%
6907 · OBMP Legal Fees				
6907.3 · WM Legal Counsel				
6907.30 · Peace II - CEQA	0.00	0.00	0.00	0.0%
6907.31 · S. Archibald Plume-Formerly OIA	3,009.15	10,260.44	-7,251.29	29.33%
6907.32 · Chino Airport Plume	8,866.95	10,697.94	-1,830.99	82.89%
6907.33 · Desalter Negotiations	77,880.86	67,425.00	10,455.86	115.51%
6907.34 · Santa Ana River Water Rights	4,984.72	10,468.75	-5,484.03	47.62%
6907.35 · Paragraph 31 Motion	14,105.71	32,666.67	-18,560.96	43.16%
6907.36 · Santa Ana River Habitat	7,969.13	0.00	7,969.13	100.0%
6907.37 · Water Auction	0.00	0.00	0.00	0.0%
6907.38 · Reg. Water Quality Cntrl Board	0.00	5,729.19	-5,729.19	0.0%
6907.39 · Recharge Master Plan	2,947.95	12,680.00	-9,732.05	23.25%
6907.3 · WM Legal Counsel - Other	0.00	0.00	0.00	0.0%
Total 6907.3 · WM Legal Counsel	119,764.47	149,927.99	-30,163.52	79.88%
Total 6907 · OBMP Legal Fees	119,764.47	149,927.99	-30,163.52	79.88%
6909 · OBMP Other Expenses				
6909.1 · OBMP Meetings	874.28	0.00	874.28	100.0%
6909.4 · Printing	0.00	0.00	0.00	0.0%
6909.5 · Ad Hoc Litigation Committee	0.00	0.00	0.00	0.0%
6909 · OBMP Other Expenses - Other	0.00	12,500.02	-12,500.02	0.0%
Total 6909 · OBMP Other Expenses	874.28	12,500.02	-11,625.74	6.99%
Total 6900 · Optimum Basin Mgmt Plan	551,058.88	551,258.41	-199.53	99.96%

The OBMP Implementation Projects (accounts 7100's – 7700's) were all under budget as of November 30, 2011 except for Category 7103 (Groundwater Quality Monitoring) which was over budget by $759 and 7500 (Cooperative Efforts/Salt Management) by $12,239.
Category 7107 (Ground Level Monitoring) contains the annual budget costs of $365,945 for the installation of a cable extensometer in the Chino Creek Well Field area at an existing well. The budget was front-loaded for the first six months of the fiscal year. To date, we have not received any progress billings. This category also includes the budgeted quarterly InSar Imagery costs of $30,000 which are tracking well below the budget.

Category 7200 (Comprehensive Recharge Program) contains the budgeted cost of $245,750 for the San Sevaine channel repair. The budget of $245,750 for this project was front-loaded for the first six months

of the fiscal year. To date, we have received progress repair billings in the amount of $221,945 and expect the remaining invoices of $23,805 will be received within the next few months.

The Recharge Improvement Debt Payment (Category 7690) is another category which the budget and expense fluctuate due to the timing of expense receipts. Watermaster expects that a credit from IEUA in the amount of $100,000+ will be forthcoming in the months of January or February 2012. Currently, this category is below the budgeted amount by $129,564.

Added to the financial reports as part of the November reporting cycle, the chart listed below summarizes the Wildermuth Environmental, Inc. expenses compared to the Year-To-Date budget. As of November 30, 2011, the WEI expenses are $476,741 or 33.0% below the budgeted amount of $1,443,769. The following details are provided:

	Jul '11 - Nov '11	Budget	$ Over Budget	% of Budget	Annual Budge
6906.1 · OBMP - Watermaster Model Update	204,010.48	180,008.34	24,002.14	113.33%	204,010.00
6906 · OBMP Engineering Services - Other	114,476.72	106,753.75	7,722.97	107.23%	256,209.00
7103.3 · Grdwtr Qual-Engineering	60,043.85	42,544.56	17,499.29	141.13%	80,507.00
7103.5 · Grdwtr Qual-Lab Svcs	14,906.00	21,367.94	-6,461.94	69.76%	36,883.00
7104.3 · Grdwtr Level-Engineering	111,636.20	80,976.69	30,659.51	137.86%	151,144.00
7104.8 · Grdwtr Level-Contracted Serv	0.00	4,166.69	-4,166.69	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equip	0.00	6,962.50	-6,962.50	0.0%	13,925.00
7107.2 · Grd Level-Engineering	142,983.13	69,347.94	73,635.19	206.18%	166,435.00
7107.3 · Grd Level-SAR Imagery	0.00	30,000.00	-30,000.00	0.0%	120,000.00
7107.6 · Grd Level-Contract Svcs	53,887.67	93,639.56	-39,751.89	57.55%	224,735.00
7107.7 · Grd Level-Extensometer Install	0.00	365,945.00	-365,945.00	0.0%	65,945.00
7107.8 · Grd Level-Cap Equip Exte	0.00	12,881.00	-12,881.00	0.0%	25,762.00
7108.3 · Hydraulic Control-Engineering	71,202.50	116,525.81	-45,323.31	61.1%	279,662.00
7108.4 · Hydraulic Control-Lab Svcs	75,734.00	71,187.06	4,546.94	106.39%	170,849.00
7108.9 · Hydraulic Control-Contract Svcs	0.00	833.31	-833.31	0.0%	2,000.00
7109.3 · Recharge & Well - Engineering	1,990.00	11,160.00	-9,170.00	17.83%	11,160.00
7202.2 · Engineering Svc	0.00	4,300.00	-4,300.00	0.0%	10,320.00
7202.3 · Comp Recharge-Implementation	27,677.59	96,250.00	-68,572.41	28.76%	231,000.00
7303 · PE3&5-Engineering - Other	23,709.49	47,840.00	-24,130.51	49.56%	47,840.00
7402 · PE4-Engineering	13,496.52	19,055.00	-5,558.48	70.83%	45,732.00
7403 · PE4-Contract Svcs	0.00	4,166.69	-4,166.69	0.0%	10,000.00
7502 · PE6&7-Engineering	13,745.00	20,066.69	-6,321.69	68.5%	48,160.00
7503 · PE6&7-Contract Svcs (Plume)	37,528.00	37,790.00	-262.00	99.31%	37,790.00
Total Wildermuth Environmental, Inc. Costs	**967,027.15**	**1,443,768.53**	**-476,741.38**	**66.98%**	**2,250,068.00**

During the month of October, there were discussions between the Wildermuth and Watermaster staff, as well as other parties, regarding the possible cost overages at completion in several of the ongoing projects. These projects are the horizontal extensometer and the CCWF extensometer.

Horizontal Extensometer. There is no specific line item in the FY 2011-2012 budget for installation of this facility. This facility was intended to be installed during FY 2010-2011, but Watermaster's negotiations with the land owner to obtain a right-of-entry agreement progressed slower than expected, and wasn't completed until July 2011. WEI was able to purchase all equipment, finish designs, and perform some offsite construction activities during FY 2010-2011, but was not able to access the site and complete the installation. Watermaster's FY 2010-2011 budget did not carry over to FY 2011-2012. WEI anticipates this effort to cost $66,000 at completion.

Vertical Extensometer. Watermaster's FY 2011-2012 budget includes the cost to identify an existing well near the CCWF, and retrofit that well as a cable extensometer facility ($65,945). The recommendation from the Land Subsidence Committee to construct a new extensometer came late in the Watermaster budgeting process, and was included in the FY 2011-2012 budget. Three Valleys Municipal Water District has committed $300,000 to this project if a new extensometer is built. This is a total budget of $365,945 to construct the new extensometer. WEI estimates the total cost to install a new cable extensometer facility near the CCWF will be approximately $450,000. This estimated cost exceeds the available budget by about $84,000.

Other Income and Expense:

In August of this year, Watermaster received two payments from the Metropolitan Water District. Metropolitan entered into agreements with Watermaster and other member agencies and partners for dry-year groundwater storage. Pursuant to Section VI of these agreements, Metropolitan committed to pay an annual administrative fee to one of the partners on each of the agreements for the 25-year term of the each agreement a) beginning on July 1st after the initial storage of water in each program, and b) with the set fee dollar amount escalating annually by the lesser of 2.5% or CPI. Watermaster received $145,568.70 for the FY 2009/2010 payment (due July 1, 2010) and $149,207.92 for the FY 2010/2011 payment (due July 1, 2011). The total amount received of $294,776.62 was recorded to account 4040 (Cooperative Agreements). These revenue items were not included in the FY 2011/2012 budget and these payments are in excess of the projected revenue amount. The amount of $294,776.62 can be used to offset and additional extensometer costs as listed above, as well as any other unexpected expenses which may occur in the current fiscal year.

During the November accounting period, the remaining invoices for the MWD replenishment water from the Inland Empire Utilities Agency were issued by Watermaster to the purchasing parties. Also, Watermaster issued the final payments during the month to Inland Empire Utilities Agency. The chart listed below provides an accounting of the Watermaster actual costs of the "Preemptive Replenishment Water":

Party	Quantity (AF)	Cost ($)
FWC	20,000.000	$ 8,471,766.00
Niagara	6,000.000	$ 2,541,529.80
Chino, City of	1,416.470	$ 600,000.00
JCSD	2,360.783	$ 1,000,000.00
Ontario, City of	3,322.247	$ 1,407,265.14
Total	33,099.500	$ 14,020,560.94

1,074.1	AF of water injected via MVWD's ASR wells
32,025.4	AF of water wet-water recharged
33,099.5	Total AF of preemptive replenishment
$ 14,020,559.54	= Total cost of all preemptive replenishment water, inclusive of OC59 and WFA charges
$ 423.5883	= Average cost per AF of preemptive replenishment water, inclusive of OC59 and WFA charges

With the exceptions previously noted, there were no other unusual or significant transactions or events during the month of November. Looking ahead, the month of December should provide similar financial results.

Actions:
January 12, 2012 Appropriative Pool – Approved unanimously
January 12, 2012 Non-Agricultural Pool – Moved to receive and file
January 12, 2012 Agricultural Pool – Approved unanimously
January 19, 2012 Advisory Committee –
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER
Budget vs. Actual
Current Month, Year-To-Date and Fiscal Year-End

	1/12th of the Total Budget For The Month of November 2011				5/12th (42%) of the Total Budget Year-To-Date as of November 30, 2011				100% of the Total Budget Fiscal Year End as of June 30, 2012			
	Actual	Budget	$ Over(Under)	% of Budget	Actual	Budget	$ Over(Under)	% of Budget	Projected	Budget	$ Over(Under)	% of Budget
Income												
4010 · Local Agency Subsidies	0.00	0.00	0.00	0.0%	405,776.62	111,000.00	294,776.62	365.57%	411,000.00	411,000.00	0.00	100.0%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	5,840,178.00	5,840,178.00	0.00	100.0%
4120 · Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	256,999.00	256,999.00	0.00	100.0%
4700 · Non Operating Revenues	0.00	0.00	0.00	0.0%	5,457.68	37,502.50	-32,044.82	14.55%	150,010.00	150,010.00	0.00	100.0%
4900 · Miscellaneous Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Income	0.00	0.00	0.00	0.0%	411,234.30	148,502.50	262,731.80	276.92%	6,658,187.00	6,658,187.00	0.00	100.0%
Gross Profit	0.00	0.00	0.00	0.0%	411,234.30	148,502.50	262,731.80	276.92%	6,658,187.00	6,658,187.00	0.00	100.0%
Expense												
6010 · Salary Costs	70,487.17	67,106.14	3,381.03	105.04%	227,920.19	225,755.14	2,165.05	100.96%	472,976.00	472,976.00	0.00	100.0%
6020 · Office Building Expense	8,115.23	8,331.00	-215.77	97.41%	40,884.69	43,178.00	-2,293.31	94.69%	103,369.00	103,369.00	0.00	100.0%
6030 · Office Supplies & Equip.	1,662.17	2,125.00	-462.83	78.22%	8,858.45	10,625.00	-1,766.55	83.37%	25,500.00	25,500.00	0.00	100.0%
6040 · Postage & Printing Costs	3,399.78	7,531.67	-4,131.89	45.14%	19,511.84	30,525.00	-11,013.16	63.92%	66,180.00	66,180.00	0.00	100.0%
6050 · Information Services	8,587.44	11,835.00	-3,247.56	72.56%	48,054.09	63,425.00	-15,370.91	75.77%	148,020.00	148,020.00	0.00	100.0%
6060 · Contract Services	3,160.00	5,000.00	-1,840.00	63.2%	10,775.86	34,000.00	-23,224.14	31.69%	34,000.00	34,000.00	0.00	100.0%
6070 · Watermaster Legal Services	34,583.07	22,079.58	12,503.49	156.63%	111,663.51	110,397.94	1,265.57	101.15%	202,555.00	202,555.00	0.00	100.0%
6080 · Insurance	0.00	0.00	0.00	0.0%	17,740.87	19,036.00	-1,295.13	93.2%	19,036.00	19,036.00	0.00	100.0%
6110 · Dues and Subscriptions	502.15	0.00	502.15	100.0%	14,846.15	15,260.00	-413.85	97.29%	30,000.00	30,000.00	0.00	100.0%
6140 · WM Admin Expenses	0.00	250.00	-250.00	0.0%	327.51	1,250.00	-922.49	26.2%	3,000.00	3,000.00	0.00	100.0%
6150 · Field Supplies	0.00	150.00	-150.00	0.0%	297.58	500.00	-202.42	59.52%	1,600.00	1,600.00	0.00	100.0%
6170 · Travel & Transportation	1,760.09	1,680.00	80.09	104.77%	7,701.94	8,772.50	-1,070.56	87.8%	21,970.00	21,970.00	0.00	100.0%
6190 · Conferences & Seminars	60.00	0.00	60.00	100.0%	3,614.44	8,750.00	-5,135.56	41.31%	17,500.00	17,500.00	0.00	100.0%
6200 · Advisory Comm - WM Board	6,464.70	4,504.25	1,960.45	143.52%	24,436.61	22,521.25	1,915.36	108.51%	54,051.00	54,051.00	0.00	100.0%
6300 · Watermaster Board Expenses	10,539.20	7,437.17	3,102.03	141.71%	61,725.88	50,685.81	11,040.07	121.78%	101,246.00	101,246.00	0.00	100.0%
8300 · Appr PI-WM & Pool Admin	4,016.25	4,190.00	-173.75	95.85%	20,411.87	20,950.00	-538.13	97.43%	50,280.00	50,280.00	0.00	100.0%
8400 · Agri Pool-WM & Pool Admin	3,868.49	5,319.09	-1,450.60	72.73%	20,880.21	26,595.37	-5,715.16	78.51%	63,829.00	63,829.00	0.00	100.0%
8467 · Ag Legal & Technical Services	130.00	17,583.33	-17,453.33	0.74%	30,925.49	87,916.69	-56,991.20	35.18%	211,000.00	211,000.00	0.00	100.0%
8470 · Ag Meeting Attend -Special	1,675.00	1,000.00	675.00	167.5%	8,400.00	5,000.00	3,400.00	168.0%	12,000.00	12,000.00	0.00	100.0%
8471 · Ag Pool Expense	0.00	0.00	0.00	0.0%	0.00	16,250.00	-16,250.00	0.0%	65,000.00	65,000.00	0.00	100.0%
8485 · Ag Pool - Misc. Exp. - Ag Fund	99.34	0.00	99.34	100.0%	99.34	0.00	99.34	100.0%	0.00	0.00	0.00	0.0%
8500 · Non-Ag PI-WM & Pool Admin	38,153.02	8,476.08	29,676.94	450.13%	69,320.32	42,380.44	26,939.88	163.57%	101,713.00	101,713.00	0.00	100.0%
6500 · Education Funds Use Expens	0.00	375.00	-375.00	0.0%	375.00	375.00	0.00	100.0%	375.00	375.00	0.00	100.0%
9400 · Depreciation Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9500 · Allocated G&A Expenditures	-39,972.29	-60,049.92	20,077.63	66.57%	-189,806.68	-300,249.56	110,442.88	63.22%	-720,599.00	-720,599.00	0.00	100.0%
6900 · Optimum Basin Mgmt Plan	80,888.78	88,503.15	-7,614.37	91.4%	551,058.88	551,258.41	-199.53	99.96%	935,026.00	935,026.00	0.00	100.0%
6950 · Mutual Agency Projects	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	10,000.00	10,000.00	0.00	100.0%
9501 · G&A Expenses Allocated-OBMP	18,293.02	18,031.25	261.77	101.45%	72,855.16	90,156.25	-17,301.09	80.81%	216,375.00	216,375.00	0.00	100.0%
7101 · Production Monitoring	3,053.51	8,741.67	-5,688.16	34.93%	41,535.65	52,708.31	-11,172.66	78.8%	104,900.00	104,900.00	0.00	100.0%
7102 · In-line Meter Installation	8,417.83	5,530.25	2,887.58	152.21%	19,611.43	27,651.25	-8,039.82	70.92%	66,363.00	66,363.00	0.00	100.0%
7103 · Grdwtr Quality Monitoring	32,828.89	15,996.67	16,832.22	205.22%	114,742.68	113,983.31	759.37	100.67%	203,960.00	203,960.00	0.00	100.0%

CHINO BASIN WATERMASTER
Budget vs. Actual
Current Month, Year-To-Date and Fiscal Year-End

	1/12th of the Total Budget For The Month of November 2011				5/12th (42%) of the Total Budget Year-To-Date as of November 30, 2011				100% of the Total Budget Fiscal Year End as of June 30, 2012			
	Actual	Budget	$ Over(Under)	% of Budget	Actual	Budget	$ Over(Under)	% of Budget	Projected	Budget	$ Over(Under)	% of Budget
7104 · Gdwtr Level Monitoring	25,451.57	21,042.24	4,409.33	120.96%	129,828.96	135,173.82	-5,344.86	96.05%	276,432.00	276,432.00	0.00	100.0%
7105 · Sur Wtr Qual Monitoring	0.00	291.00	-291.00	0.0%	0.00	1,505.00	-1,505.00	0.0%	3,592.00	3,592.00	0.00	100.0%
7107 · Ground Level Monitoring	29,099.93	139,168.50	-110,068.57	20.91%	196,870.80	572,466.00	-375,595.20	34.39%	904,443.00	904,443.00	0.00	100.0%
7108 · Hydraulic Control Monitoring	34,433.22	38,315.34	-3,882.12	89.87%	147,291.80	191,576.62	-44,284.82	76.88%	459,784.00	459,784.00	0.00	100.0%
7109 · Recharge & Well Monitoring Prog	1,990.00	0.00	1,990.00	100.0%	1,990.00	11,160.00	-9,170.00	17.83%	11,160.00	11,160.00	0.00	100.0%
7200 · PE2- Comp Recharge Pgm	246,516.20	91,658.92	154,857.28	268.95%	665,924.45	744,608.54	-78,684.09	89.43%	1,341,785.00	1,341,785.00	0.00	100.0%
7300 · PE3&5-Water Supply/Desalte	1,979.62	3,795.25	-1,815.63	52.16%	36,888.21	66,816.25	-29,928.04	55.21%	93,383.00	93,383.00	0.00	100.0%
7400 · PE4- Mgmt Plan	5,766.18	5,663.91	102.27	101.81%	17,599.94	29,369.63	-11,769.69	59.93%	70,067.00	70,067.00	0.00	100.0%
7500 · PE6&7-CoopEfforts/SaltMgmt	18,930.41	6,411.83	12,518.58	295.24%	71,342.07	59,103.38	12,238.69	120.71%	88,942.00	88,942.00	0.00	100.0%
7600 · PE8&9-StorageMgmt/Conj Use	3,236.45	3,785.25	-548.80	85.5%	12,962.52	19,101.25	-6,138.73	67.86%	45,773.00	45,773.00	0.00	100.0%
7690 · Recharge Improvement Debt Pymt	0.00	0.00	0.00	0.0%	471,400.00	600,964.00	-129,564.00	78.44%	450,964.00	450,964.00	0.00	100.0%
7700 · Inactive Well Protection Prgm	0.00	0.00	0.00	0.0%	0.00	706.50	-706.50	0.0%	1,413.00	1,413.00	0.00	100.0%
9502 · G&A Expenses Allocated-Projects	13,363.92	42,018.67	-28,654.75	31.81%	108,636.20	210,093.31	-101,457.11	51.71%	504,224.00	504,224.00	0.00	100.0%
Total Expense	681,540.34	603,877.29	77,663.05	112.86%	3,219,503.91	4,022,301.41	-802,797.50	80.04%	6,873,187.00	6,873,187.00	0.00	100.0%
Net Ordinary Income	-681,540.34	-603,877.29	-77,663.05	112.86%	-2,808,269.61	-3,873,798.91	1,065,529.30	72.49%	-215,000.00	-215,000.00	0.00	100.0%
Other Income												
4225 · Interest Income	0.00	0.00	0.00	0.0%	7.01	0.00	7.01	100.0%	0.00	0.00	0.00	0.0%
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4600 · Groundwater Sales	2,874,543.58	0.00	2,874,543.58	100.0%	12,647,183.31	0.00	12,647,183.31	100.0%	0.00	0.00	0.00	0.0%
Total Other Income	2,874,543.58	0.00	2,874,543.58	100.0%	12,647,190.32	0.00	12,647,190.32	100.0%	0.00	0.00	0.00	0.0%
Other Expense												
5010 · Groundwater Replenishment	497,292.31	0.00	497,292.31	100.0%	10,269,932.04	0.00	10,269,932.04	100.0%	0.00	0.00	0.00	0.0%
5100 · Other Water Purchases	2,377,249.88	0.00	2,377,249.88	100.0%	2,402,395.88	0.00	2,402,395.88	100.0%	0.00	0.00	0.00	0.0%
9999 · To/(From) Reserves	-681,538.95	-603,877.29	-77,661.66	112.86%	-2,833,407.21	-3,873,798.91	1,040,391.70	73.14%	-215,000.00	-215,000.00	0.00	100.0%
Total Other Expense	2,193,003.24	-603,877.29	2,796,880.53	-363.15%	9,838,920.71	-3,873,798.91	13,712,719.62	-253.99%	-215,000.00	-215,000.00	0.00	100.0%
Net Other Income	681,540.34	603,877.29	77,663.05	112.86%	2,808,269.61	3,873,798.91	-1,065,529.30	72.49%	215,000.00	215,000.00	0.00	100.0%
Net Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%

Note: Please see the staff report (Financial Report-B5) for additional detailed information on the account categories.

CHINO BASIN WATERMASTER

II. CONSENT CALENDAR

C. NOTICE OF INTENT

NOTICE OF INTENT

Watermaster's "Notice of Intent" to Change the Operating Safe Yield of the Chino Groundwater Basin

PLEASE TAKE NOTICE that on this 26th day of January 2012, Chino Basin Watermaster hereby files this **"Notice of Intent"** to change the operating safe yield of the Chino Groundwater Basin Pursuant to the Judgment entered in Chino Basin Municipal Water District v. City of Chino, et al., San Bernardino Superior Court, Case No. RCV 51010 (formerly Case No. 164327) (Exhibit I, Paragraph 2b, Page 80).

Approved by
CHINO BASIN WATERMASTER
ADVISORY COMMITTEE

By: _____
Chair

CHINO BASIN WATERMASTER
BOARD OF DIRECTORS

By: _____
Chair

ATTEST:

By: _____
Secretary

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CHINO BASIN WATERMASTER

II. CONSENT CALENDAR

D. CHINO BASIN WATERMASTER INVESTMENT POLICY

RESOLUTION 12-01

RESOLUTION OF THE CHINO BASIN WATERMASTER, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING A WATERMASTER INVESTMENT POLICY

WHEREAS, the normal and prudent operation of the Watermaster's daily business generates cash balances, operating and fund reserves; and

WHEREAS, the cash management system is designed to accurately monitor and forecast expenditures and revenues on behalf of Watermaster, thus enabling the Watermaster to invest funds to the fullest extent possible; and

WHEREAS, the cash funds are to be placed in investments authorized for public agencies of the State of California (Judgment Paragraph 23); and

WHEREAS, Watermaster deems it to be in the best interests of the parties to the Judgment to delegate the authority to invest and reinvest the funds of Watermaster to the Watermaster Finance Manager subject to the provisions of its Investment Policy and the ongoing review and control of Watermaster and the Watermaster Advisory Committee.

WHEREAS, it is the Watermaster's policy to annually review, update, and adopt an investment policy;

NOW, THEREFORE, BE IT RESOLVED, by the Chino Basin Watermaster that:

Section 1. The authority to invest and reinvest funds of Watermaster is hereby delegated to the Watermaster Chief Executive Officer (and his/her designees) subject to the provisions of said Investment Policy and the ongoing review and control of Watermaster and the Watermaster Advisory Committee.

Section 2. This resolution shall take effect from and after its date of adoption and Resolution 11-01 is rescinded in its entirety.

APPROVED by the Advisory Committee this 19th day of January 2012.
ADOPTED by the Watermaster Board on this 26th day of January 2012.

By: _____
Chairman, Watermaster Board

APPROVED:

_____
Chairman, Advisory Committee

ATTEST:

_____
Board Secretary
Chino Basin Watermaster

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN BERNARDINO)

I, Danielle Maurizio, Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 12-01, was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES: 0

NOES: 0

ABSENT: 0

ABSTAIN: 0

CHINO BASIN WATERMASTER

_____
Secretary

Date: _____

CHINO BASIN WATERMASTER

II. CONSENT CALENDAR

E. LOCAL AGENCY INVESTMENT FUND

RESOLUTION 12-02 OF CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730 PHONE: 909-484-3888

AUTHORIZING INVESTMENT OF MONIES

IN THE LOCAL AGENCY INVESTMENT FUND

WHEREAS, Pursuant to Chapter 730 of the statutes of 1976 Section 16429.1 was added to the California Government Code to create a Local Agency Investment Fund in the State Treasury for the deposit of money of a local agency for purposes of investment by the State Treasurer; and

WHEREAS, the Chino Basin Watermaster was appointed on January 27, 1978, under San Bernardino Superior Court Case No. WCV51010 (formerly Case No. SCV164327) entitled Chino Basin Municipal Water District V. City of Chino, et al., with powers to authorize the investment or deposit of surplus funds pursuant to the California Government Code, Section 53600; and

WHEREAS, upon filing of an appropriate resolution, local agencies are permitted to remit money to the State Treasurer for deposit in the fund for the purpose of investment; and pursuant to Section 16429.3 of said Government Code, such monies are not subject to impoundment of seizure by any state official or state agency.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors does hereby authorize the deposit and withdrawal of Chino Basin Watermaster monies in the Local Agency Investment Fund in the State Treasury in accordance with the provisions of Section 16429.1 of the Government Code for the purpose of investment as stated therein, and verification by the State Treasurer's Office of all banking information provided in that record.

BE IT FURTHER RESOLVED, that the following Chino Basin Watermaster officers and designated employees or their successors in office/position shall be authorized to order the deposit or withdrawal of monies in the Local Agency Investment Fund.

_____ (NAME)	Chairman of the Board (TITLE)	_____ (SIGNATURE)
_____ (NAME)	Vice-Chair (TITLE)	_____ (SIGNATURE)
_____ (NAME)	Board Secretary/Treasurer (TITLE)	_____ (SIGNATURE)
Danielle Maurizio (NAME)	Chief Executive Officer/Secretary (TITLE)	_____ (SIGNATURE)
Joe Joswiak (NAME)	Chief Financial Officer (TITLE)	_____ (SIGNATURE)

APPROVED by the Advisory Committee this 19th day of January 2012.
ADOPTED by the Watermaster Board on this 26th day of January 2012.

By: _____
Chairman, Watermaster Board

APPROVED:

_____
Chairman, Advisory Committee

ATTEST:

_____
Board Secretary
Chino Basin Watermaster

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN BERNARDINO)

I, Danielle Maurizio, Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 12-02, was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES: 0

NOES: 0

ABSENT: 0

ABSTAIN: 0

CHINO BASIN WATERMASTER

_____
Secretary

Date: _____

CHINO BASIN WATERMASTER

II. CONSENT CALENDAR

F. ADVISORY COMMITTEE VOLUME VOTE

CHINO BASIN WATERMASTER

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

STAFF REPORT

DATE: **January 19, 2012**

TO: **Advisory Committee Members**

SUBJECT: **Calendar Year 2012 Interim Advisory Committee Volume Vote**

SUMMARY

Recommendation – Staff recommends continuing the Calendar Year 2011 Volume Vote (as presented and approved in January 2011) until the 2011-2012 Assessment Package is approved and a new Volume Vote can be calculated and acted upon.

BACKGROUND

Following the approval of each Assessment Package, Volume Vote calculations for the new calendar year are performed and Parties are allocated a voting percentage. However, the 2011-2012 Assessment Package is in draft form and is being brought through the Watermaster meeting process this month. As a result, it is not yet possible to calculate the new Volume Vote.

The Calendar Year 2011 Advisory Committee Volume Vote allocation is attached. The total voting power on the Pool Committee is 100 votes. Of these, 20 votes are allocated to the Agricultural Pool and five votes are allocated to the Overlying (Non-Agricultural) Pool. The remaining 75 votes are allocated to the Appropriative Pool. Within the Appropriative Pool, the voting power shall be apportioned between the Major Appropriator representatives in proportion to their respective voting power in the Appropriative Pool Committee. The remaining two (Minor) representatives shall exercise equally the voting power proportional to the Appropriative Pool Committee voting power of all remaining Appropriators.

Staff recommends continuing the Calendar Year 2011 Volume Vote (as presented and approved in January 2011) until the 2011-2012 Assessment Package is approved and a new Volume Vote can be calculated and acted upon. Once the new Assessment Package is approved, a new Volume Vote will be brought forward for action the following month.

Actions:
January 19, 2012 Advisory Committee –

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Peace II

Chino Basin Watermaster
2010-2011 Advisory Committee Volume Vote

Assessment Year 2010-2011 (Production Year 2009-2010)

	Pool 3 Vote	% Vote	Advisory Vote
Minor 1	79.230	7.923%	2.971
Minor 2	79.230	7.923%	2.971
Chino Hills, City Of	25.438	2.544%	1.908
Chino, City Of	34.091	3.409%	2.557
Cucamonga Valley Water District	83.828	8.383%	6.287
Fontana Union Water Company	58.285	5.829%	4.371
Fontana Water Company	86.107	8.611%	6.458
Fontana, City Of	0.000	0.000%	0.000
Jurupa Community Services District	105.978	10.598%	7.948
Monte Vista Water District	117.990	11.799%	8.849
Ontario, City Of	214.706	21.471%	16.103
Pomona, City Of	161.720	16.172%	12.129
Upland, City Of	32.628	3.263%	2.447
			75.000
AGRICULTURAL POOL			20.000
NON-AGRICULTURAL POOL			5.000
			25.000
TOTAL			**100.000**

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CHINO BASIN WATERMASTER

III. BUSINESS ITEM

A. WATERMASTER 2011/2012 ASSESSMENT PACKAGE

CHINO BASIN WATERMASTER

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

STAFF REPORT

DATE: **January 19, 2012**

TO: **Committee Members**

SUBJECT: **Fiscal Year 2011-2012 Assessment Package**

SUMMARY

Issue - Chino Basin Watermaster Fiscal Year 2011-2012 Assessment Package.

Recommendation - Staff recommends approval of the Fiscal Year 2011-2012 Assessment Package as presented.

Fiscal Impact - The Assessment Package creates the funds that are used during this fiscal year for budgeted expenses.

BACKGROUND

The members of the Overlying Non-Agricultural Pool and the Appropriative Pool were each sent a copy of their Water Activity Report that summarized their water activity for the previous year – including production, Dry Year Yield (DYY), land use conversions, transfers and assignments – and each party was asked to verify the data gathered and summarized by Watermaster. All of the Water Activity Reports were received back, and any necessary corrections were made.

Watermaster held an Assessment Package Workshop on January 4, 2012. The purpose of the workshop was to review the prior year production, transfers, DYY, etc., and to review the current year cash requirements pursuant to the adopted budget and the resulting impact on assessments. Discussion at the workshop covered the breakdown of how assessments are calculated. During the workshop, it was noted that a few changes have been made to the Assessment Package, including that the "Re-Operation Offset" Desalter Replenishment water is now separated into two "buckets"—one the for the Pre-Peace II Desalters (originally 225,000 AF) and one for the Peace II Expansion Desalters (175,000 AF); starting this year, only the portion of a water transfer used to offset overproduction will receive the 85/15 Rule treatment, if eligible; and, as requested by the City of Ontario, a page has been added that demonstrates the analyses regarding whether a transaction receives the 85/15 Rule treatment or not. In addition,

Fontana Water Company's and Niagara's May and June 2011 Preemptive Replenishment amounts were placed into their "New" Supplemental Storage accounts.

Budgeted costs decreased this year, and the Assessment Package identifies total assessable production for all Pools as 113,667 acre-feet (a decrease of 829 acre-feet), resulting in assessments of $8.60/acre-foot for Admin and $40.54/acre-foot for OBMP, excluding recharge debt service and assessments for replenishment water. For production year 2010-2011, there is a replenishment obligation of 1,239 acre-feet. The new replenishment rate is $574, which is MWD's $560 Tier 1 rate plus IEUA's $12 surcharge plus OCWD's $2 connection fee.

The following minor changes have been made since the Workshop:

- Page 4A—The footnote has been corrected to reflect the correct amount of preemptive replenishment (as shown correctly in the table) that was applied to Fontana Water Company's "New" Supplemental Storage account.
- Pages 7A - 7B—The spelling of the word "Applys" was corrected to "Applies."

Discussion occurred at each of the Pool meetings regarding the Assessment Package. The Appropriative Pool asked Watermaster staff to research the "Re-Operation Offset" Desalter Replenishment water that is now separated into two "buckets." The question was raised if it should be shown as one or two "buckets." Staff committed to researching the issue soon, but noted that it does not have to be done for this Assessment Package because there is enough available water for the production year. And it is known that a correction will need to occur anyway, once the new groundwater model is completed. The Non-Agricultural Pool requested that two footnotes be added to each of the three main Non-Agricultural Pool pages.

The following minor changes have been made since the Pool Meetings:

- Pages 13A, 14A & 15A—The following two footnotes were added to these three pages:
  - "The Overlying (Non-Agricultural) Pool's approval of the assessment package was made without prejudice to its legal claims pursuant to its Paragraph 31 Motion."
  - "A dispute has arisen between Aqua Capital Management and California Steel Industries concerning allocation of the right attributed to Aqua Capital Management in this Assessment Package."

The remaining pages have stayed unchanged, as evidenced by the date and time stamp on the bottom left corner of each page.

Actions:
January 12, 2012 Appropriative Pool – Approved unanimously
January 12, 2012 Non-Agricultural Pool – Approved by majority vote the 2011-2012 Assessment Package including all footnotes and dialog on storage losses be included, subject to any changes which the Chair of the Non-Ag Pool and Chair of the Advisory Committee determines appropriate
January 12, 2012 Agricultural Pool – Approved unanimously the 2011-2102 Assessment Package which was in the meeting package today and to have the Agricultural Pool Chair and Agricultural Pool Legal Counsel review the Non-Agricultural footnotes being added to page 13A, 14A, and 15A, and presented to the Advisory Committee and Watermaster Board
January 19, 2012 Advisory Committee –
January 26, 2012 Watermaster Board –

2011-12 ASSESSMENT PACKAGE

CAN BE FOUND ON OUR FTP SITE:

WWW.CBWM.ORG/FTP

PLEASE LOOK IN THE FOLDER:

MEETINGS, PACKAGES, AND AGENDAS

FOR THE PDF TITLED:

20120119 2011-2012 REVISED DRAFT ASSESSMENT PACKAGE

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CHINO BASIN WATERMASTER

III. BUSINESS ITEM

B. LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS

RESOLUTION 12-03

A RESOLUTION OF THE CHINO BASIN WATERMASTER LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS FOR FISCAL YEAR 2011- 2012

WHEREAS, the Chino Basin Watermaster was appointed on January 27, 1978, under Case No. RCV 51010 (formerly case No. SCV 164327) entitled Chino Basin Municipal Water District v. City of Chino, et al., with powers to levy and collect administrative and replenishment assessments necessary to maintain water levels and to cover the cost of administering the Chino Basin Judgment; and

WHEREAS, the Watermaster Advisory Committee approved and the Watermaster Board adopted the Fiscal Year 2010-2011 Budget on June 28, 2007 to carry out the necessary Watermaster functions under the Judgment; and

WHEREAS, the parties named in this Judgment have pumped 1,238.791 acre-feet of water in excess of the operating safe yield, which is required to be replaced at the expense of the parties in accordance with the assessment formulas for the respective pools.

NOW, THEREFORE, BE IT RESOLVED that the Chino Basin Watermaster levies the respective assessments for each pool effective January 26, 2012 as showed on Exhibit "A" attached hereto.

BE IT FURTHER RESOLVED, that pursuant to the Judgment, each party has thirty-days from the date of invoice to remit the amount of payment for assessments due. After that date, interest will accrue on that portion which was due as provided for in Section 55 (c) of the Judgment.

THE FOREGOING RESOLUTION was
APPROVED by the Advisory Committee on the 19th day of January 2012.
ADOPTED by the Watermaster Board on the 26th day of January 2012.

By: _____
Chairman, Watermaster Board

APPROVED:

_____
Chairman, Advisory Committee

ATTEST:

_____
Secretary, Watermaster Board

Exhibit "A"
Resolution 12-03

Summary
of
Assessments
Fiscal Year 2011-2012
Production Year 2010-2011

1. OVERLYING (N0N-AGRICULTURAL) POOL

a. 2011-2012 Budget — $ 8.60 Per AF - Admin.; $ 40.54 Per - OBMP

b. Replenishment — $ 574.00 Per AF

2. APPROPRIATIVE POOL

a. Administration

1. 2010-2011 Budget — $ 8.60 Per AF - Admin.; $ 40.54 Per - OBMP

2. Ag Pool Reallocated — $ 5.24 Per AF - Admin.; $ 24.69 Per AF - OBMP

b. 100% Net Replenishment — $ 574.00 Per AF

c. 15/85 Water Activity

15% Replenishment Assessments — $9,368.20

15% Water Transaction Activity — $483,590.00

d. Pomona Credit — $ 0.0

e. Recharge Debt Payment — $450,964.00

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN BERNARDINO)

I, Danielle Maurizio Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 12-03 was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES: 0

NOES: 0

ABSENT: 0

ABSTAIN: 0

CHINO BASIN WATERMASTER

_____
Secretary

Date: _____

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CHINO BASIN WATERMASTER

III. BUSINESS ITEM

C. MATERIAL PHYSICAL INJURY ANALYSIS

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

STAFF REPORT

DATE: **January 19, 2012**

TO: **Committee Members**

SUBJECT: **Update and Material Physical Injury Analysis for All Local Supplemental Storage Agreement Applications Pending as of December 15, 2011**

SUMMARY

Issue – There are seven pending Applications for Local Supplemental Storage Agreements. The applications have not been acted upon by Watermaster because there are many pending issues regarding supplemental storage, particularly regarding classification of the types of storage and regarding the current cap on Storage of Supplemental Water.

Recommendation – Staff recommends receiving and filing WEI's Material Physical Injury analysis. Staff further recommends that a workshop be held in the near future to discuss how to proceed with storage issues.

Fiscal Impact –None.

BACKGROUND

The Court approved the Peace Agreement, the Implementation Plan and the goals and objectives identified in the OBMP Phase I Report on July 13, 2000, and ordered Watermaster to proceed in a manner consistent with the Peace Agreement. Under the Peace Agreement, Watermaster approval is required for applications to store, recapture, recharge or transfer water, as well as for applications for credits or reimbursements and storage and recovery programs.

On December 2, 2011, Notices were issued for the City of Upland's and San Antonio Water Company's Applications for Local Supplemental Storage Agreements, as well as Applications for Recharge. The Applications for a Local Storage Agreement, inclusive of the Application for Recharge, were placed on the December 8, 2011 Appropriative Pool, Non-Ag Pool, and Agricultural Pool meeting agendas. The applications were discussed extensively during the Pool meetings. The Appropriative Pool and Non-Ag

Pool deferred the items. The Agricultural Pool took unanimous action to defer the Local Supplemental Storage Agreements, but to approve by majority vote the Applications for Recharge. The issue was then discussed at the Advisory Committee and Board meeting. The Board directed Staff to analyze all of the pending Applications for Local Supplemental Storage Accounts for Material Physical Injury, and to agendize the Application for Recharge on the January Pool meetings.

DISCUSSION

As directed by the Board, Staff has evaluated the pending Applications. There are currently seven pending Applications for Local Supplemental Storage Agreements that Watermaster Staff has been able to locate as of the date of this Staff Report. The Applications (attached) were submitted by Cucamonga Valley Water District, City of Fontana, Monte Vista Water District, Fontana Water Company, Inland Empire Utilities Agency, City of Upland, and San Antonio Water Company (SAWCO). They date as far back as May 2006, and are for a total of 81,500.000 acre-feet. By placing this item on the Appropriative Pool agenda, Staff intends to solicit information from Pool members as to whether there are any other Applications not previously identified.

The applications have not been acted upon by Watermaster because there are many pending issues regarding supplemental storage, particularly regarding the rules for priority among competing applications, the classification of the types of storage and regarding the current cap on Storage of Supplemental Water described in paragraph 5.2(b)(iv) and 5.2(b)(vii) of the Peace Agreement the Peace II Agreement increased from 50,000 to 100,000 acre-feet.

Further, attached, please find Wildermuth Environmental, Inc.'s (WEI's) Analysis of Material Physical Injury for each of the pending Applications for Local Supplemental Storage Agreements. WEI's analysis concludes:

- None of the storage programs in the proposed Applications would cause a Material Physical Injury under the assumptions in which they were analyzed. For the City of Upland, the Material Physical Injury analysis assumed that the recycled water recharge component was excluded. A great deal of work with regulatory participation would need to be completed prior to Watermaster being able to complete a Material Physical Injury analysis for a recycled water recharge project at the Upland Basin.
- Some changes in the Applications should be formally submitted to the Watermaster prior to approving the Applications to ensure that the Applications are complete and that the proposed storage programs are implemented consistent with the Material Physical Injury analysis described.
- Watermaster should require that the amount and water quality of the water recharged in the Basin pursuant to an Application be carefully monitored and provided to the Watermaster in a timely manner. These data are necessary for Watermaster accounting, regulatory reporting required in the Watermaster-IEUA Recharge Permit, and for other groundwater management purposes.

Staff recommends receiving and filing WEI's Material Physical Injury Analysis. Staff further recommends that a Workshop be held in the near future to discuss how to proceed with storage issues so that proposed storage opportunities are not frustrated by the absence of clear rules and guidelines. Because of the close relationship between the subjects of Storage and Preemptive Replenishment and the handling of Local Supplemental Storage Agreements, Staff believes that is reasonable for Watermaster to address these subjects by May 15, 2012 in sufficient time to allow the resolution to be included within the proposed Court filing on the update to the Recharge Master Plan.

Actions:
January 12, 2012 Appropriative Pool – Approved unanimously to receive and file
January 12, 2012 Non-Agricultural Pool – Approved unanimously to receive and file, subject to any changes which the Chair of the Non-Ag Pool and Chair of the Advisory Committee determines appropriate
January 12, 2012 Agricultural Pool – Approved unanimously to receive and file
January 19, 2012 Advisory Committee –
January 26, 2012 Watermaster Board –

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WILDERMUTH™
ENVIRONMENTAL INC.

January 9, 2012

Chino Basin Watermaster
Attention: Ms. Danielle Maurizio, Interim CEO
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

Subject: Analysis of Material Physical Injury for Local Storage Agreement Application pending as of December 15, 2011

Dear Ms. Maurizio:

Pursuant to your direction, Wildermuth Environmental, Inc. (WEI) conducted a material physical injury (MPI) analysis of seven pending Local Storage Agreement (LSA) applications. The sum total of requested storage capacity is 81,500 acre-ft. These LSA applications are listed in Table 1 along with their key features. Figure 1 shows the locations of the spreading basins and wells and the depth to groundwater for Spring 2010. Watermaster provided WEI with these applications on or slightly after December 15, 2011. Subsequently, WEI reviewed the LSA applications and corresponded with some the applicants to clarify the intent of their applications. If material clarifications were made, the applicant was requested to revise its LSA applications with the Watermaster. This MPI analysis is based on the "clarified" LSA applications. In all cases, it is assumed that Watermaster's recharge operations would occur before recharge by the applicant if the applicant's use of spreading basins would conflict with Watermaster's recharge operations.

Material Physical Injury Analysis

This MPI analysis was performed pursuant to the Watermaster Rules and Regulations and the Peace Agreement. Specifically, Article 10 of Watermaster Rules and Regulations (paragraph 10.10) requires that:

> "[…] Watermaster prepare a written summary and analysis (which will include an analysis of the potential for material physical injury) of the Application and provide the Parties with a copy of the written summary and advanced notice of the date of Watermaster's scheduled consideration and possible action on any pending Applications."

Per the Peace Agreement, material physical injury is defined as:

> "[…] material injury that is attributable to Recharge, Transfer, storage and recovery, management, movement or Production of water or implementation of the OBMP, including, but not limited to, degradation of water quality, liquefaction, land subsidence, increases in pump lift and adverse impacts associated with rising groundwater" (Peace Agreement, page 8).

This report addresses MPI only. None of the proposed LSA project descriptions contain the operational detail necessary for the application of Watermaster's groundwater models to evaluate MPI. Some applications did not provide recapture plans, and as such the MPI analysis only considers recharge and storage. The MPI analysis presented herein is based on our professional experience and judgment in the Chino Basin, including the collection and analysis of monitoring data, past evaluations of Chino Basin storage programs, groundwater modeling of various groundwater management alternatives in the Chino Basin, and prior MPI analyses—specifically, recent past modeling investigations for the Dry-year Yield Program Expansion (2007-2008), the *Production Optimization and Evaluation of the Peace II Project Description* (2009), and the draft 2010 *State of the Basin Report.* Each LSA application is evaluated below in the order submitted to the Watermaster.

Cucamonga Valley Water District LSA Application Dated May 3, 2006

The Cucamonga Valley Water District (CVWD) applied for an LSA for 20,000 acre-ft of storage and intends to fill that storage with water imported from the Central Valley and delivered to the Chino Basin through the State Water Project (SWP) and Metropolitan Water District of Southern California (Metropolitan) facilities. Once in the Chino Basin area, the water would be placed into storage at a maximum rate of 2,500 acre-ft/yr through recharge in the San Sevaine Basins and by in-lieu recharge using the Lloyd Michael treatment plant. Recovery of the water would be from CVWD wells at a rate of 2,500 acre-ft/yr.

Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift). This is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels very slightly in the basin followed by a return to the groundwater levels that would exist if this storage program never occurred. The proposed project will produce a localized, short-term increase in groundwater levels in the vicinity of the San Sevaine Basins and a slight general increase in groundwater levels near the CVWD production wells. The depth to groundwater around CVWD Chino Basin wells ranges from 500 ft below ground surface (bgs) to 580 ft-bgs. The depth to groundwater around the San Sevaine Basins area is about 650 ft-bgs.[1] There will be no adverse impacts from the groundwater level changes caused by the proposed program.

Balance of Recharge and Discharge in Every Area and Subarea. As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be an imbalance because recharge may not occur or be tributary to the where the stored water is produced by CVWD. However this imbalance will likely be small and produce a slight beneficial increase in groundwater levels in the northeastern part of the basin in Management Zones 2 and 3, which are currently experiencing a ten-year decline in groundwater levels. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed program.

Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water. The 2004 Regional Water Quality Control Plan (Basin Plan) for the Santa Ana Watershed has total dissolved

[1] Recently, a perched groundwater system was discovered under the San Sevaine Basins with a depth to water of about 200 feet. This water eventually finds its way into the regional groundwater system with depth to water greater than 600 feet.

solids (TDS) and total nitrogen[2] (TN) objectives in the Chino North Management Zone of 420 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in the Chino Basin such that the ten-year, volume-weighted average for TDS and TN in the combined storm, imported, and recycled water recharge will not exceed the Basin Plan objectives. The average TDS and TN concentrations of the water proposed to be recharged and stored by the CVWD would be identical to SWP water at about 290 mg/L and 1 mg/L, respectively. The volume-weighted average TDS and TN concentrations for the Chino North Management Zone is about 340 mg/L and 9.5 mg/L, respectively. The recharge of this water, with TDS and TN concentrations less than their respective objectives and specifically with concentrations less than the current TDS and TN concentrations, will actually improve water quality in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed program.

Water Quality Impacts on Other Pumpers. The recharge of imported water with SWP water quality in the San Sevaine Basins will have a beneficial water quality impact to the Basin. The water quality of groundwater produced in the Chino Basin by the CVWD is excellent and deferring its production during in-lieu recharge also improves water quality in the Basin. There will be no adverse impacts to other pumpers caused by the proposed program.

Conclusion. There will be no MPI from the proposed LSA.

City of Fontana LSA Application Dated May 18, 2010

The City of Fontana applied for an LSA for 5,000 acre-ft and intends to fill that storage with recycled water that is recharged pursuant to the Watermaster and IEUA recharge permit. The water stored pursuant to the proposed LSA will be transferred to a Watermaster party at some time in the future. The City has an agreement with the City of Ontario that transfers the first 3,000 acre-ft/yr of the City of Fontana share of recycled water recharge to the City of Ontario. The City of Fontana anticipates that its share of the recycled water recharge will exceed the 3,000 acre-ft/yr transferred to the City of Ontario and desires a storage account to store its recycled water for subsequent transfer. The City of Fontana did not include a recapture plan in its LSA application, so it is unclear as to whom the stored water would be transferred. A recharge application for the current IEUA and Watermaster recycled water recharge program was approved by Watermaster in 2007 pursuant to the Watermaster Rules and Regulations and the Peace Agreement, and therefore the recharge of recycled water for the City of Fontana's proposed storage program has already been reviewed and approved by the Watermaster.

Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift). This is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. The proposed project will produce a localized increase in groundwater levels in the vicinity of the recharge basins where the recycled water recharge occurs, and this mounding will continue at a near constant level for the duration equal to the minimum of the of the City's LSA term or the duration of the IEUA and Watermaster's recycled water recharge program. The depth to groundwater beneath the recycled water recharge facilities

[2] Total nitrogen includes organic and inorganic nitrogen. The MCL, expressed, as nitrogen is 10 mg/L and is equivalent to the nitrate MCL as 45 mg/L.

ranges from 230 to 680 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed program.

Balance of Recharge and Discharge in Every Area and Subarea. As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels slightly in the Basin followed by a return to the groundwater levels that would exist if this proposed storage program never occurred. There may be an imbalance because recharge may not occur or be tributary to where the stored water is actually produced. The impact of the proposed storage program on the balance of recharge discharge cannot be determined until a recapture plan is filed and approved by Watermaster.

Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water. This issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury.

Water Quality Impacts on Other Pumpers. This issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury.

Conclusion. There will be no MPI from the proposed LSA for the recharge and storage of recycled water. The City of Fontana will have to submit an application to Watermaster to recapture the water stored in the proposed LSA, and a separate MPI analysis will need to be done on the recapture plan.

Monte Vista Water District LSA Application Dated May 18, 2010

The MVWD applied for an LSA for 10,000 acre-ft and intends to fill that storage with recycled water that is recharged pursuant to the Watermaster and IEUA recharge permit and with SWP water that is treated at the WFA treatment plant and injected into the Basin through its aquifer storage and recovery (ASR) wells 4, 30, and 32. The MVWD is uncertain as to how much of each type of water it will store and suggested that the Watermaster consider that the MPI analysis cover all the water being either imported water or recycled water to bookend the MPI analysis. The MVWD will recover the stored water through its own wells. A recharge application for the current recycled water recharge program was approved by Watermaster in 2007 pursuant to the Watermaster Rules and Regulations and the Peace Agreement, and therefore the recharge of recycled water in the MVWD's proposed storage program has already been reviewed and approved by Watermaster. The proposed groundwater storage program, using imported water injected into Basin through the MVWD's ASR wells and recovered with their wells, was partially covered in an MVWD recharge application that was approved by Watermaster in 2006. The 2006 recharge application assumed an annual put and take cycle of up to 3,500 acre-ft/yr. The MVWD would like to store up to 10,000 acre-ft of injected water for subsequent recapture.

Groundwater Level Impacts (liquefaction, land subsidence and increases in pump lift). For either water source, this is a put-and-take program, and as such the general groundwater level impact will be to increase storage and thereby increase groundwater levels slightly in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. When recharging recycled water, the proposed project will produce a slight localized increase in groundwater levels in the vicinity of the recharge basins, where the recycled water recharge occurs, and this slight mounding will continue at a near constant level for the duration equal to the minimum of the MVWD's LSA term or the duration of the IEUA and Watermaster's recycled water

recharge program. The depth to groundwater beneath the recycled water recharge facilities ranges from 230 to 680 ft-bgs. When imported water is being recharged and stored through the MVWD's ASR wells, the proposed program will produce a localized increase in groundwater levels in the vicinity of the injection wells and a slight general increase in groundwater levels in the area bounded by the injection wells. The depth to groundwater in the area around the MVWD's ASR wells ranges from 410 to 570 ft-bgs. The expected increase in groundwater levels will likely average less than 15 feet. There will be no adverse impacts from the groundwater level changes caused by the proposed storage program.

Balance of Recharge and Discharge in Every Area and Subarea. As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. For recycled water recharge, there may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. As to the injection of imported water at the MVWD ASR wells, the recharge and recovery locations are the same, and therefore the balance of recharge and discharge is almost assured. The proposed injection of imported water provides a balance of recharge and discharge at the "subarea" level and augments the recharge capacity of the Management Zone 1 spreading basins. Imported water recharged at the MVWD ASR wells will contribute to Watermaster's obligation to recharge 6,500 acre-ft/yr of supplemental water into Management Zone 1. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water. For recycled water, this issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury.

For the Chino North Management Zone, the 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives of 420 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN in the combined storm, imported, and recycled water recharge will not exceed the Basin Plan objectives. The average TDS and TN concentrations of the water proposed to be recharged and stored by the MVWD would be identical to SWP water at about 290 mg/L and 1 mg/L, respectively. The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives will actually improve water quality in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with Watermaster and the IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed program.

Water Quality Impacts on Other Pumpers. For recycled water and storage, this issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury. As for the injection of imported water at the MVWD's ASR wells, water quality impacts on other nearby pumpers could occur from minor changes in the groundwater flow system that result from injection. In 2005, these impacts were estimated by the MVWD's consultant (CDM) to be negligible in the MVWD ASR Feasibility Study and related Finding of Consistency. WEI did not conduct an independent modeling assessment to validate this finding. However, we concur that the impact should be negligible and likely not measurable at other nearby wells.

Conclusion. There will be no MPI from the proposed LSA.

Fontana Water Company LSA Application Dated April 20, 2011

The Fontana Water Company (FWC) applied for an LSA for 10,000 acre-ft and intends to fill that storage with Lytle Creek surface water, Lytle Basin groundwater, Rialto Basin groundwater, and SWP water. The FWC is uncertain as to the quantity of each type of water it will store, as it proposes to divert water from its potable water system through new turnouts on that system. The FWC proposes to conduct all recharge at existing active spreading basins within its service area, including the San Sevaine, Victoria, Banana, Hickory, RP3 and Declez Basins. The water quality of the recharged water will be dependent on the mix of water sources in their potable system when the recharge occurs. The water stored pursuant to the proposed LSA will be pumped by the FWC from its own wells or transferred to a Watermaster party at some time in the future. The FWC did not include a recapture plan in its LSA application, so it is unclear as to whom the stored water would be transferred.

Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift). For any of the water sources, this is a put-and-take program, and as such the general impact will be to increase storage and groundwater levels in Management Zones 2 and 3, followed by a return to the groundwater levels that would exist if this storage program never occurred. The depth to groundwater beneath the spreading basins ranges from about 150 ft-bgs to 6500 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed program. In fact, the proposed program may slightly increase groundwater levels in the Jurupa Community Services District and Chino Desalter Authority well fields.

Balance of Recharge and Discharge in Every Area and Subarea. As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water. The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North Management Zone of 430 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in spreading basins in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN concentrations will not exceed the Basin Plan objectives. The TDS and TN concentration of the water proposed to be recharged and stored by the FWC will vary over time due to the variable amounts of source waters in their potable system at the time of recharge. The FWC suggests that the TDS and TN concentrations of the water proposed to be recharged will be typically be around 240 mg/L and 4 mg/L, respectively.[3] The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. Therefore, the proposed recharge project will not encroach upon the current assimilative capacity or interfere with Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

[3] Based on 2009 and 2010 Consumer Confidence Reports provided by the FWC

Water Quality Impacts on Other Pumpers. Based on FWC water quality and current ambient water quality conditions in the Basin, the recharge of imported water with FWC potable supply water quality will have a beneficial impact to the Basin.

Conclusion. There will be no MPI from the proposed LSA for the recharge and storage of recycled and imported water.

Inland Empire Utility Agency LSA Application Dated June 24, 2011

The IEUA applied for an LSA for 25,000 acre-ft of storage and intends to fill that storage with SWP water imported through Metropolitan. Recharge will be accomplished in spreading basins, the MVWD ASR wells, and/or by in-lieu recharge—the precise amounts and locations to be determined by Watermaster. No recapture plan was filed.

Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift). This is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels slightly in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. The proposed project will produce a localized, short-term increase in groundwater levels in the vicinity of the recharge basins and ASR wells and a slight general increase in groundwater levels in the well fields where production is reduced to accomplish in-lieu recharge. The depth to groundwater beneath the imported water recharge facilities ranges from 230 to 680 ft-bgs. The depth to groundwater in the area around the MVWD ASR wells ranges from 410 to 570 ft-bgs. The depth to groundwater underlying the well field of the appropriators that can participate in in-lieu recharge ranges across the northern part of the Chino Basin from about 400 to 650 ft-bgs and in the Pomona to City of Chino areas from about 350 to 100 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed storage program.

Balance of Recharge and Discharge in Every Area and Subarea. As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels very slightly in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. However, this imbalance will be small and likely produce a slight and beneficial increase in groundwater levels in the northeastern part of the basin. Watermaster will use its authority and discretion to assign the rate and location of recharge to improve the balance the recharge and discharge. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water. The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North Management Zone of 420 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in the Chino Basin so that the ten-year, volume-weighted average TDS and TN concentrations in the combined storm, imported, and recycled water recharge will not exceed the Basin Plan objectives. The average TDS and TN concentrations of the water proposed to be recharged and stored by the IEUA would be identical to SWP water, averaging about 290 mg/L and 1 mg/L, respectively. The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives, and more specifically less than current concentrations, will actually lower the TDS and TN concentrations in the Basin.

Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with Watermaster and the IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

Water Quality Impacts on Other Pumpers. The recharge of imported water with SWP water quality will have a beneficial impact on the Basin. The water quality of groundwater produced by participating appropriators is generally excellent, and deferring its production during in-lieu recharge would improve water quality in the Basin. Therefore, there will be no adverse water quality impacts to other pumpers caused by the proposed program.

Conclusion. There will not be MPI from the proposed LSA.

City of Upland LSA Application Dated November 29, 2011

The City of Upland applied for an LSA for 9,500 acre-ft and intends to fill that storage with Six Basins area groundwater, San Antonio Creek water, Cucamonga Basin groundwater, and recycled water produced by the IEUA. The City of Upland is uncertain as to the quantity of each type of water it will store. The City of Upland will divert water directly from its potable water system into the Upland Basin. The City of Upland proposes to conduct all recharge in the City's Upland Basin. The water stored pursuant to the proposed LSA will be transferred to a Watermaster party at some time in the future. The City of Upland did not include a recapture plan in its LSA application, so it is unclear as to whom the stored water would be transferred. The recharge of recycled water at the Upland Basin is not covered in the existing Watermaster and IEUA recharge permit nor does the City of Upland currently possess a permit to recharge recycled water in the Upland Basin. This material physical injury analysis does not include the City of Upland's proposed recharge of recycled water. The City will need to conduct investigations pursuant to the requirements of the Department of Public Health and the Regional Board and supply the results of those investigations to Watermaster prior to Watermaster completing a material physical injury analysis for the recharge of recycled water.

Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift). For any of the water sources, this is a put-and-take program, and as such the general impact will be to increase storage in Management Zone 1, followed by a return to the groundwater levels that would exist if this storage program never occurred. The depth to groundwater beneath the Upland Basin is about 650 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed program. In fact, the proposed storage program may lessen the subsidence observed in the northern part of Management Zone 1.

Balance of Recharge and Discharge in Every Area and Subarea. As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. The proposed project provides a better balance of recharge and discharge at the "subarea" level. The proposed recharge of imported water recharged at the Upland Basin will contribute to the Watermaster obligation to recharge 6,500 acre-ft/yr of supplemental water into Management Zone 1. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water. The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North

Management Zone of 430 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage the recharge in spreading basins in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN in that recharge will not exceed the Basin Plan objectives. The TDS and TN concentrations of the water proposed to be recharged and stored by the City of Upland will vary somewhat due to the variable amounts of the source water at the time of recharge. The City of Upland suggests that the TDS and TN concentrations of the water proposed to be recharged will typically be around 240 mg/L and 2 mg/L, respectively.[4] The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives, and more specifically less than current concentrations, will actually lower the TDS and TN concentrations in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with the Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

Water Quality Impacts on Other Pumpers. Based on the City of Upland's water quality and the current ambient water quality conditions in the Basin, the recharge of the Basin with City of Upland potable water will have a beneficial water quality impact to the Basin.

Conclusion. There will be no material physical injury from the proposed LSA for the recharge and storage of Six Basins area groundwater, San Antonio Creek water, and Cucamonga Basin groundwater.

San Antonio Water Company LSA Application Dated December 1, 2011

The San Antonio Water Company (SAWCo) applied for an LSA for 2,000 acre-ft and intends to fill that storage with San Antonio Creek water. The SAWCo proposes to conduct all recharge in the Upland Basin and Montclair Basin Number 1. The SAWCo did not include a recapture plan in its LSA application, so it is unclear as to how the stored water will be recaptured.

Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift). This is a put-and-take program, and as such the general impact will be to increase groundwater levels and storage in Management Zone 1, followed by a return to the groundwater levels that would exist if this storage program never occurred. The depth to groundwater beneath the Upland Basin is about 650 ft-bgs and about 580 beneath the Montclair Basin Number 1. There will be no adverse impacts from the groundwater level changes caused by the proposed program. In fact, the proposed storage program may lessen the subsidence observed in the northern part of Management Zone 1.

Balance of Recharge and Discharge in Every Area and Subarea. As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. The proposed project provides a better balance of recharge and discharge at the "subarea" level. The proposed recharge of imported water recharged at the Upland Basin and Montclair Basin Number 1 will contribute to the Watermaster obligation to recharge 6,500 acre-ft/yr of supplemental water into Management Zone 1. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

[4] Based on potable system water quality data provided by the City

Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water. The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North Management Zone of 430 mg/L and 5 mg/L, respectively. The Watermaster and the IEUA have agreed to manage the recharge in spreading basins in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN in that recharge will not exceed the Basin Plan objectives. SAWCo did not provide Watermaster with water quality information for San Antonio Creek. That said, the San Antonio Creek water quality data available to WEI from prior investigations suggest that the average TDS and TN concentrations of the water proposed to be recharged and stored by the SAWCo will typically be around 250 mg/L and 1 mg/L, respectively.[5] The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives, and more specifically less than current concentrations, will actually lower the TDS and TN concentrations in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with the Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

Water Quality Impacts on Other Pumpers. Based on the existing information on San Antonio Creek water quality and current ambient water quality conditions in the Basin, the recharge of the Basin with San Antonio Creek supply will have a beneficial water quality impact to the Basin.

Conclusion. There will be no material physical injury from the proposed LSA for the recharge and storage of San Antonio Creek water.

Recommendations

As stated above for each LSA, application, it our professional opinion that none of the storage programs in the proposed LSA's would cause a material physical injury under the assumptions in which they were analyzed. For the City of Upland, our material physical injury analysis assumed that the recycled water recharge component was excluded. A great deal of work with regulatory participation would need to be completed prior to Watermaster being able to complete a material physical injury analysis for a recycled water recharge project at the Upland Basin.

Some changes in the LSA applications should be formally submitted to the Watermaster prior to approving the LSA to ensure that the LSA applications are complete and that the proposed storage programs are implemented consistent with the material physical injury analysis described herein.

Finally, Watermaster should require that the amount and quality of the water recharged in the Basin pursuant to an LSA be carefully monitored and provided to the Watermaster in a timely manner. These data are necessary for Watermaster accounting, regulatory reporting required in the Watermaster-IEUA Recharge Permit, and for other groundwater management purposes.

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[5] City of Upland 2010 consumer confidence report and City of Pomona 2011 consumer confidence report

Please call me if you have any questions or concerns regarding the above.

Very truly yours,

Wildermuth Environmental, Inc.

Mark Wildermuth, PE
President

Encl. Table 1, Figure 1

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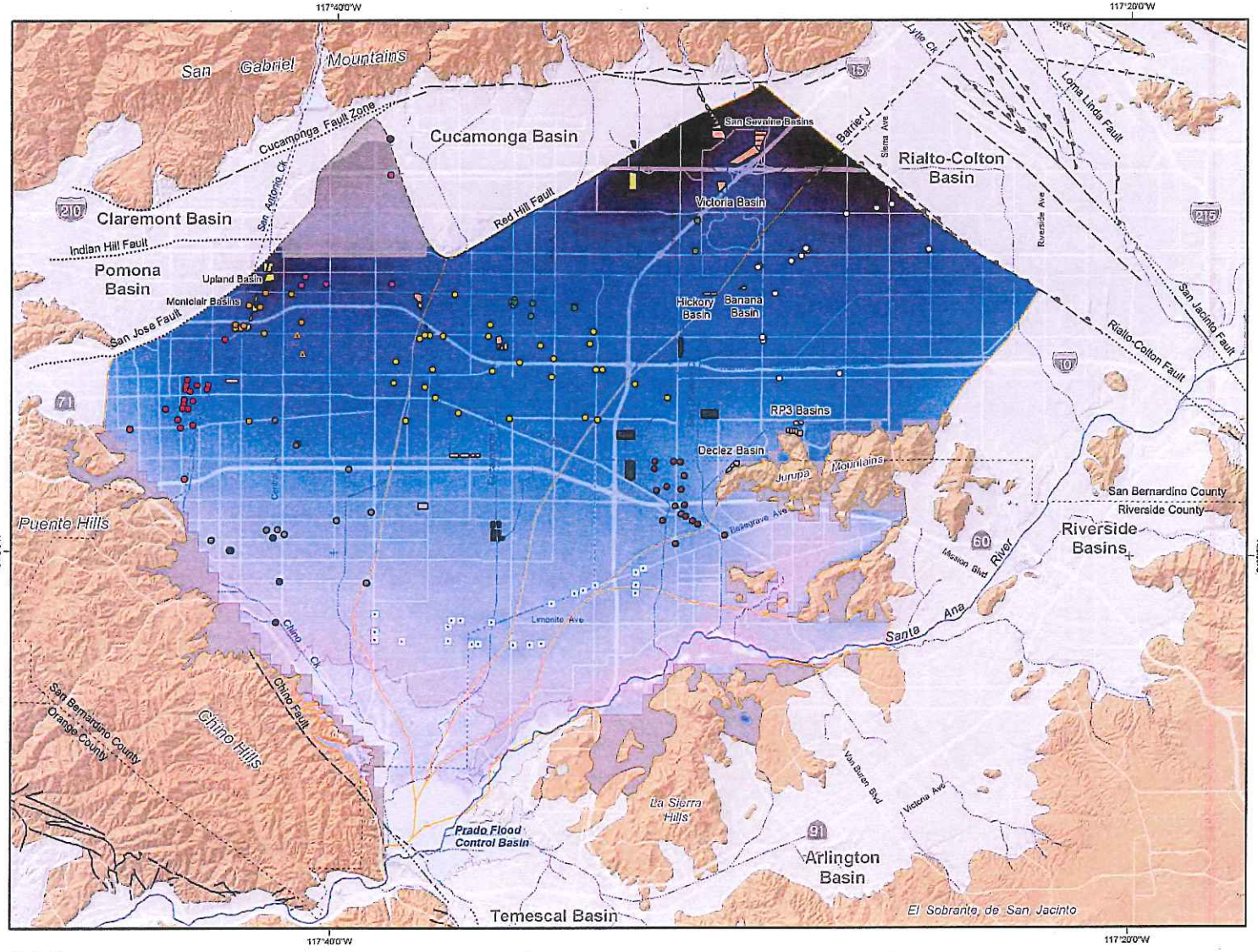
Table 1 Summary of Local Storage Agreement Applications

Application Date	Applicant	Amount acre-ft	Type of Water	Source of Water	Method of Recharge	Location of Recharge	Recharge Rate	Notes
5/3/2006	CVWD	20,000	Imported	Central Valley water delivered through the State Water Project	Percolation & Exchange	San Sevaine Basin & Lloyd Michael WWTP	2,500 acre-feet per year	
5/18/2010	City of Fontana	5,000	Recycled Water	Recycled Water Recharged by IEUA (The City is entitled to 18.5%)	Percolation	All Basins where recycled water is recharged for the existing IEUA Recycled Water Recharge Program	Dependent on the amount of recycled water IEUA recharges	1- Fontana has a contract with the City of Ontario for 3,000 acre-ft of their allotment; the 5,000 acre-ft of storage will occur after this contract is fulfilled. 2- The Application states the method of recapture is transfer to another Party; at that point, the City of Fontana and the other party will submit the appropriate applications.
6/30/2010	MVWD	10,000	Recycled and Imported	Recycled water recharged by IEUA and imported water injected at ASR wells	Percolation & Injection	All Basins where recycled water is recharged for the existing IEUA Recycled Water Recharge Program, and the MVWD ASR Injection Wells 4, 30, and 32.	Recycled water rate is dependent on the amount of recycled water IEUA recharges. The injection rate at the MVWD ASR wells will be up to 3,500 acre-ft/yr.	1- In 2006, Watermaster approved a recharge application for the MVWD ASR Project to recharge 3,500 acre-ft/yr of imported State Water Project water, and recovery of the water would occur in the same year. 2-This storage application is for the over-year storage of the injected imported water and IEUA recharged recycled water up to 10,000 acre-ft.
4/20/2022	FWC	10,000	Local Supplemental	Lytle Creek Surface Water, Lytle Basin Water, Rialto Basin Water, State Water Project Water	Percolation	Active spreading Basins in the FWC service area including the San Sevaine, Victoria, Banana, Hickory, RP3 and Declez Basins	Unspecified	
6/24/2011	IEUA	25,000	Imported	Imported water from Metropolitan Water District or potential water exchanges with other State Water Project contractors.	Percolation, Exchange, and Injection	All spreading basins available to Watermaster and IEUA, injection at the MVWD ASR wells, and in-lieu recharge.	The location and rate of recharge will be determined by the Watermaster.	This is preemptive replenishment water purchased by Chino Basin Watermaster for Desalter replenishment obligations. IEUA will purchase water for storage, and sell to CBWM when desalter replenishment water is needed starting in 2013.
11/29/2011	City of Upland	9,500	Local Supplemental and Recycled	IEUA recycled water, and surface water from San Antonio Creek, and groundwater from the Six Basins and the Cucamonga Basin.	Percolation	Upland Basin	1 foot per day	Includes water from its shareholder entitlements and partnerships with SAWCO and WECWC for waters from San Antonio Canyon, Six Basins, and Cucamonga Basin. It also includes potential recharge of Uplands share of IEUA recycled water at Upland Basin.
12/1/2011	SAWCO	2,000	Local Supplemental	San Antonio Creek	Percolation	Upland and Montclair Basin 1	250 acre-ft per month	SAWCO has the majority of surface water rights in the San Antonio Creek.

Table 1 Summary of Local Storage Agreement Applications

Applicant	Proposed Method of Recapture	Recapture Amount	Changes to Application to be Made by Applicant
CVWD	Pump from existing wells	2500 acre-ft per year	1- On the transmittal letter under "Enclosures" change "Form 3" to read Form 4". [1] 2- On Form 1 under the heading Material Physical Injury, the "no" box should be checked.[1] 3- On Form 2 under the heading "Source and Supply, Other" replace "San Joaquin River Agricultural Rights" with "Central Valley water delivered through the State Water Project".[1] 4- On Form 4 under the heading "Method of Recapture (if other than pumping)" delete the text.[1]
City of Fontana	Transfer to another party	An Application of Recapture will be completed prior to the transfer	
MVWD	Pump from existing wells	Not specified	1- On Form 2 under "Source of Supply" check "State Water Project"
FWC	Transfer to another party and pump from existing wells	An Application of Recapture will be completed prior to production	1-On Form 1, under "Water quality and Water Levels" add "Please see the draft 2010 State of the Basin Report for groundwater levels and water quality in the FWC service area"; 2-On Form 2, under "Sources of Supply", add "Lytle Creek Surface Water, Lytle Basin Water, Rialto Basin Water, State Water Project Water"; 3-On Form 2 under "Method of Recharge" add "Active spreading Basins in the FWC service area including the San Sevaine, Victoria, Banana, Hickory, RP3 and Declez Basins"; on Form 2 under "Water quality and Water Levels" add "Please see the draft 2010 State of the Basin Report for groundwater levels and water quality in the FWC service area"
IEUA	Transfer	An Application of Recapture will be completed prior to transfer.	1 - Submit a Form 2; 2-On Form 1, remove language that "Form 2 is not required-CBWM will be recharging as preemptive"; 3-On Form 2 under "Method of Recharge "check percolation, injection, and exchange in that all spreading basins available to CBWM/IEUA as well in-lieu and MVWD ASR wells. Additionally on Form 2 indicate that the location and rate of recharge will be determined by the Watermaster; 4-On Form 2 state that the source of water is State Project Water.
City of Upland	Transfer	An Application of Recapture will be completed prior to transfer.	1 - On Form 2, under the "Source of Supply" Check the box next to "Recycled Water" in addition to "Local Supplemental Water".
SAWCO	Not specified	An Application of Recapture will be completed prior to the recapture of the water in storage	1- On Form 2 changed the amount of recharge requested from 1,500 acre-ft to 2,000 acre-ft to be consistent with the amount of storage requested on Form 1. [1]



Depth to Groundwater *(ft-bgs)*

0 ft.

> 800 ft.

Depth to water not estimated due to lack of data

Basins by Recharge Type

- Imported Water, and Recycled Water
- Imported Water
- Flood Control Basins
- Flood Control Basins - No Recharge

Major Appropriator Active Production Wells

- City of Pomona
- Monte Vista Water District
- Monte Vista Water District ASR Wells
- City of Upland
- San Antonio Water Company
- City of Ontario
- Cucamonga Valley Water District
- Fontana Water Company
- Jurupa Community Services District
- City of Chino
- City of Chino Hills
- Chino Desalter Authority

Streams & Flood Control Channels

Chino Basin OBMP Management Zones

Produced by:
WILDERMUTH ENVIRONMENTAL INC
23692 Birtcher Drive
Lake Forest, CA 92630
949.420.3030
www.wildermuthenvironmental.com

Author: VMW
Date: 20120105
File: Chino 2010 DTW2.mxd

0 1 2 3 4 5 Miles
0 2 4 6 8 KM

Chino Basin Watermaster
Material Physical Injury Analysis
Local Storage Agreement Application

Location Map for the January 9, 2011 Material Physical Injury Analysis

Figure 1

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Cucamonga Valley
Water District

10440 Ashford Street • Rancho Cucamonga, CA 91729-0638
P.O. BOX 638 • (909) 987-2591 • Fax (909) 476-8032

Robert A. DeLoach
General Manager
Chief Executive Officer

May 3, 2006

Mr. Kenneth Manning, CEO
CHINO BASIN WATERMASTER
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

Subject: Application for Local Storage Agreement

Dear Mr. Manning:

Enclosed is Cucamonga Valley Water District's Application for Local Storage Agreement, pursuant to the Chino Basin Watermaster Rules and Regulations.

Respectfully,

Robert A. DeLoach
General Manager/CEO

Enclosures
- Form 1, Application for Local Storage Agreement
- Form 2, Application for Recharge
- Form 3, Application to Recapture Water in Storage
- CVWD Bi-Annual Water Supply Report

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Form 1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

CUCAMONGA VALLEY WATER DISTRICT
Name of Party

May 3, 2006
Date Requested

Date Approved

10440 Ashford Street
Street Address

20,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

Rancho Cucamonga CA 91730
City State Zip Code

Telephone: 909/ 987-2591

Facsimile: 909/ 476-8032

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [xx] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

[xx] Stabilize or reduce future water costs/assessments.
[xx] Facilitate utilization of other available sources of supply.
[ ] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[ ] Other, explain _____

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

[xx] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

[xx] Pump from my wells (Form 4)
[ ] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

See attached CVWD Bi-Annual Water Supply Report (July -- December 2005)

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [ ]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

Form 2

APPLICATION FOR RECHARGE

APPLICANT

CUCAMONGA VALLEY WATER DISTRICT
Name of Party

10440 Ashford Street
Street Address

Rancho Cucamonga | CA | 91730
City | State | Zip Code

Telephone: (909) 987-2591

May 3, 2006
Date Requested

20,000 Acre-feet
Amount Requested

5,000 AF/Year
Projected Rate of Recharge

Date Approved

Acre-feet
Amount Approved

4 Years
Projected Duration of Recharge

Facsimile: (909) 476-8032

SOURCE OF SUPPLY

Water from:

[ ] State Water Project
[ ] Colorado River
[ ] Local Supplemental Source:
[ ] Recycled Water
[xx] Other, explain San Joaquin River Agricultural Rights

METHOD OF RECHARGE

[xx] PERCOLATION
Basin Name: San Sevaine
Location: Rancho Cucamonga

[ ] INJECTION
Well Number:
Location (attach map):

[xx] EXCHANGE
Facility Name: Lloyd Michael Water Treatment Plant
Share of Safe Yield:
Carry Over Right:
Water in Storage:
Pumping Capacity (cfs):

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?
See attached CVWD Bi-annual water supply report (July -- December 2005)

Form 4

APPLICATION OR AMENDMENT TO APPLICATION TO RECAPTURE WATER IN STORAGE

APPLICANT

CUCAMONGA VALLEY WATER DISTRICT
Name of Party

May 3, 2006
Date Requested

Date Approved

10440 Ashford Street
Street Address

20,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

Rancho Cucamonga | CA | 91730
City | State | Zip Code

2,500/AF/Year
Projected Rate of Recapture

8 Years
Projected Duration of Recapture

Telephone: (909) 987-2591

Facsimile: (909) 476-8032

IS THIS AN AMENDMENT TO A PREVIOUSLY APPROVED APPLICATION? [ ] YES [XX] NO
IF YES, ATTACH APPLICATION TO BE AMENDED

IDENTITY OF PERSON THAT STORED THE WATER: Cucamonga Valley Water District

PURPOSE OF RECAPTURE

- [XX] Pump when other sources of supply are curtailed
- [XX] Pump to meet current or future demand over and above production right
- [ ] Pump as necessary to stabilize future assessment amounts
- [ ] Other, explain _____

METHOD OF RECAPTURE (if by other than pumping) (e.g. exchange)

A portion may be exchanged at the Lloyd Michael Water Treatment Plant

PLACE OF USE OF WATER TO BE RECAPTURED

Retail delivery

LOCATION OF RECAPTURE FACILITIES (IF DIFFERENT FROM REGULAR PRODUCTION FACILITIES).

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

See attached CVWD Bi-annual water supply report (July--December 2005)

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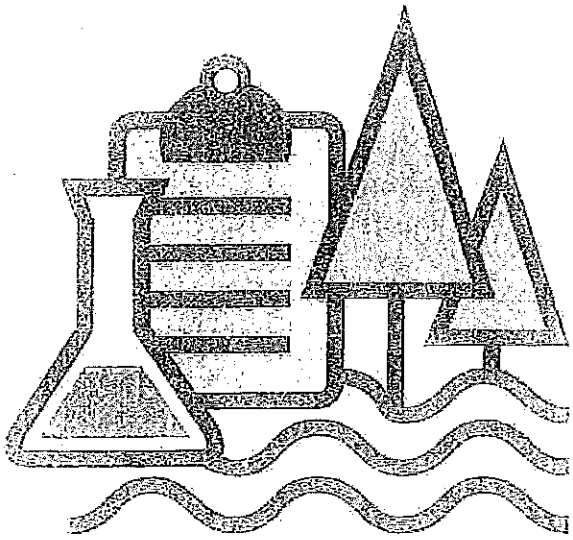


Cucamonga Valley Water District

Bi-Annual Water Supply Report
July – December 2005

Water Supply

Below is the summary production from all sources for the period of July - December 2005 including production goals. The goals are established based on historical water supply demands and optimizing available supplies.

Table 1

July - December

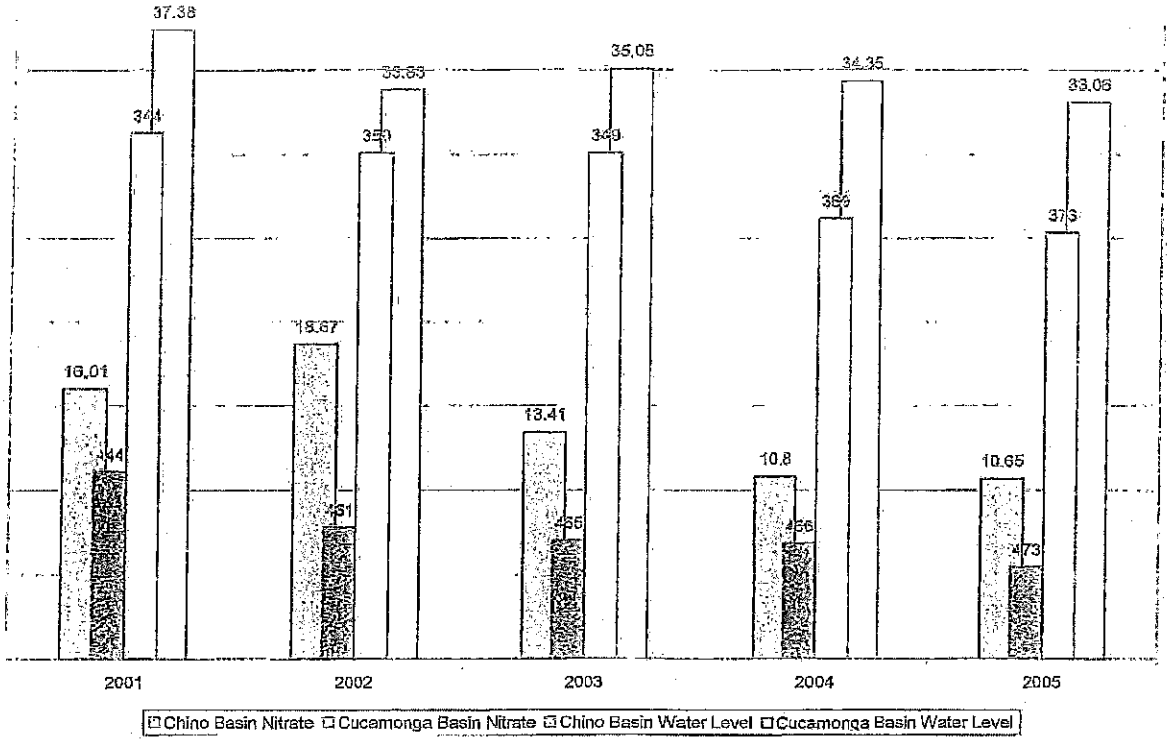
Source	Bi-Annual Production Goal (Acre Feet)	Actual Production (Acre Feet)	Production Difference (Acre Feet)	% Above Goal (Acre Feet)
Chino Basin	8,831.092	7,567.316	-1,263.776	-14.31%
Cucamonga Basin	4,465.335	3,385.990	-1,079.345	-24.17%
Deer Canyon	167.940	99.970	-67.970	-40.47%
Cucamonga Canyon	165.207	0.000	-165.207	-100.00%
Day & East Canyons	642.639	2,874.611	2,231.972	347.31%
Purchased Water	21,287.608	18,660.698	-2,626.910	-12.34%
Total Production	35,559.821	32,588.585	-2,971.236	-8.36%

The District's Bi-Annual water production goals are shown in the Table 1 above. Due to lower than normal temperatures and higher than average precipitation during the second half of 2005, actual water production was less than the bi-annual goal. As a result, total production from all sources was down by 2,971 AF or 8.36% of the bi-annual production goal. In addition Table 1 shows that, the actual production in the Chino and Cucamonga Basins for the second half of the year were less than projected. Additionally, the use of Wells 10, 12, 19 and 22 have also been in and out of service for increased DBCP and/or Nitrate levels. As a result of the favorable weather conditions staff was able to reduce purchased water usage enough to stay below Tier 2 by 259.87 acre-feet. Due to the reduction of purchased water the District realized a cost savings of approximately $1.24 Million, based on the Tier 2 MWD price rate.

Water Quality

Graph 1 below summarizes the historical well soundings for depth to groundwater in the Cucamonga and Chino Basins as they relate to Nitrate contamination in each basin. The graph illustrates the inverse relationship between the contaminant in each of the Basins as it relates to the groundwater elevation.

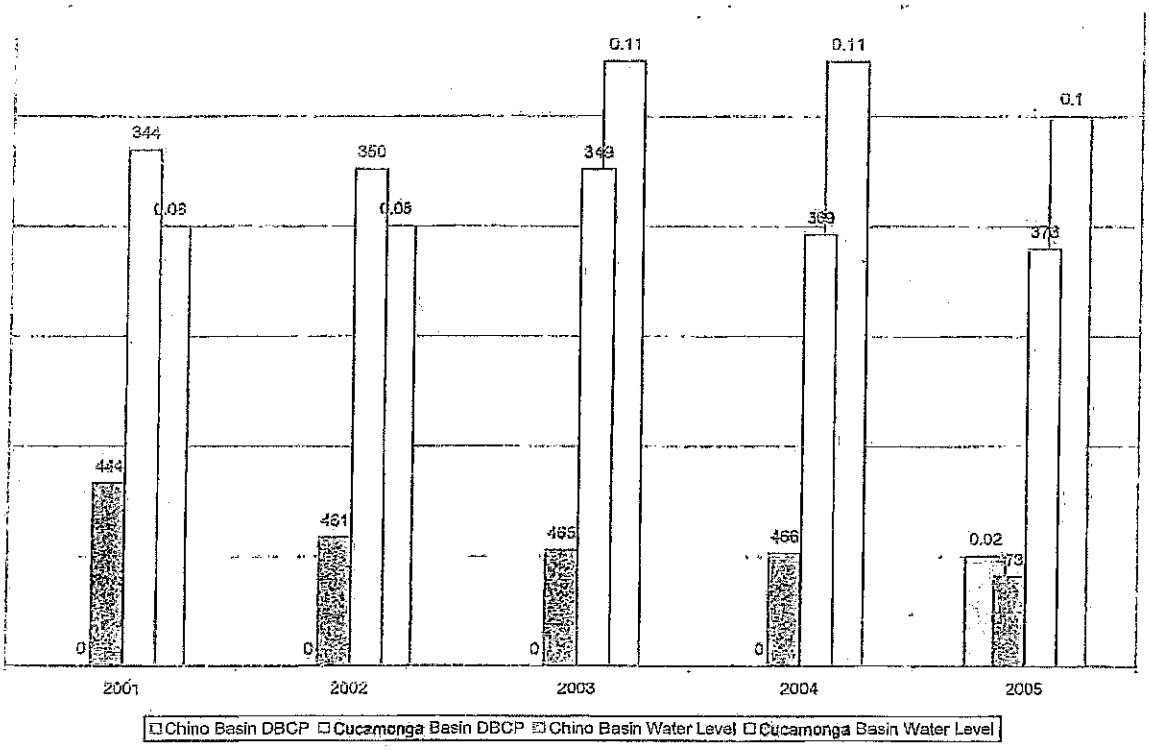
Graph 1



Water Quality (cont.)

Graph 2 below summarizes the historical well soundings for depth to groundwater for the Cucamonga and Chino Basins as they relate to Dibromochloropropane (DBCP) contamination in each basin. The graph illustrates the inverse relationship between the contaminant in each basin as it relates to the groundwater elevation.

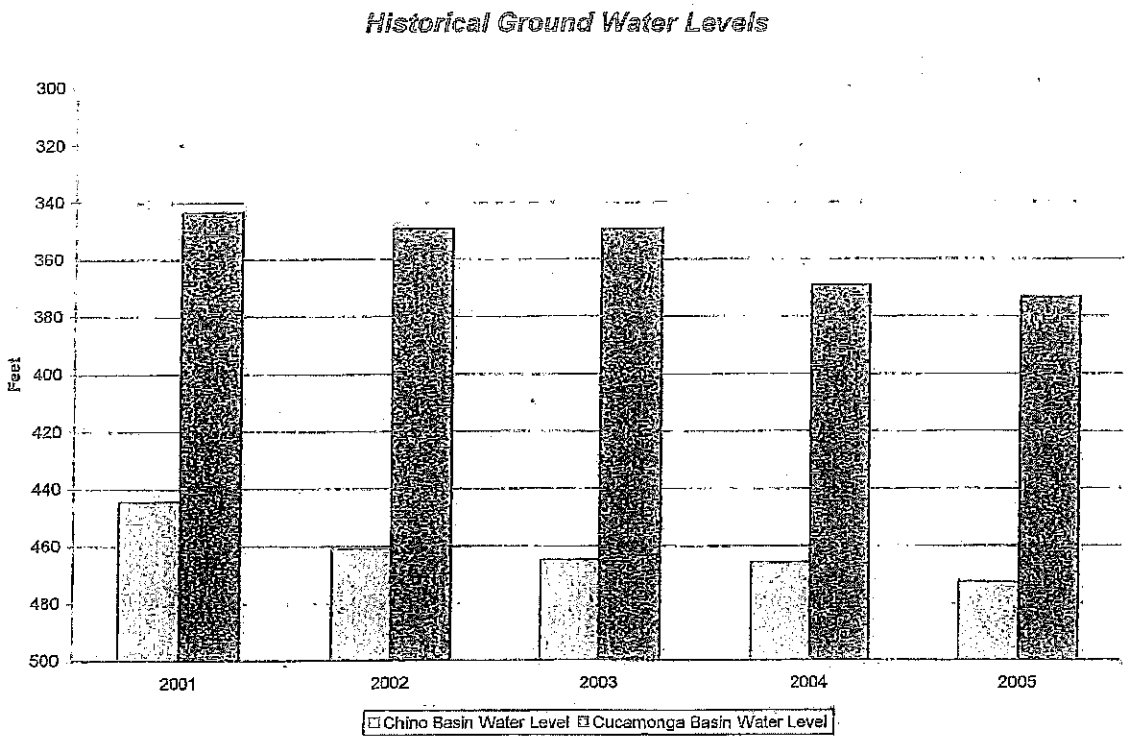
Graph 2



Currently only 10 of the District's 23 wells are operational due to Nitrate and Dibromochloropropane (DBCP) contamination above the maximum contaminant level (MCL.) Of the 10 wells that are operational, 6 are located in the Chino Basin and have been delivering up to a total groundwater capacity of 9,600 GPM. The other 4 wells are in the Cucamonga Basin, and are only operational in accordance with the Districts' DHS approved blending plans. These wells are delivering up to a total groundwater capacity of 5,000 GPM.

As seen below in graph 3 the water levels in both the Cucamonga and Chino Basins are continuing to decline. Even with higher than normal precipitation this year, with the sustained system demands, water levels are continuing to decline.

Graph 3



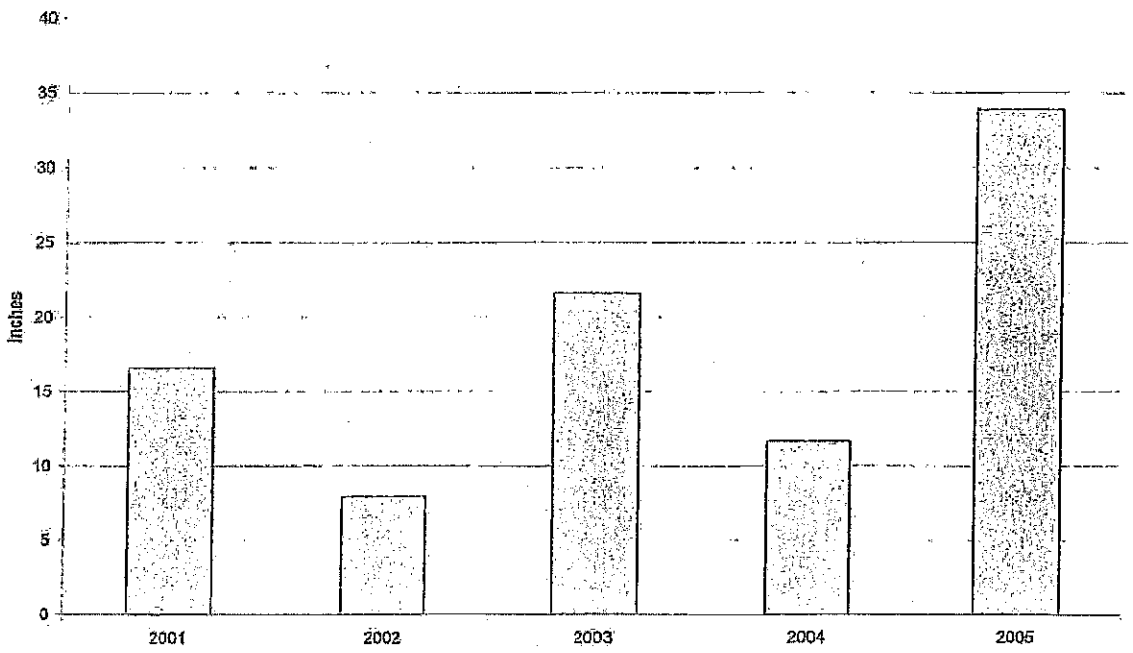
During calendar year 2005, the average groundwater level in the Cucamonga Basin was 373 ft, the average level during 2004 was 369 ft and in 2003 349 ft., this represents an overall decline of 6.4% during the last three years. The total basin decline is a direct result of the limited amount of consistent local precipitation and runoff combined with increased system demands. As illustrated on Graph 2, there is direct correlation between the increased levels of DBCP and the decline of the basin groundwater levels. As the total combined underground storage decreases, so does its ability to dilute the existing levels of DBCP's. It is anticipated that the natural storm water recharge as well as recharge using the recently completed regional recharge facilities will begin to have positive impacts on local groundwater levels. Staff will continue to monitor this situation and provide an update with the next regular water supply report.

Weather

Graph 4 below summarizes the average rainfall recorded at the District Offices over the past 5 years.

Graph 4

Annual Rainfall to Date



During calendar year 2005, precipitation was 33.87 inches; the average over the current 5-year historical period is 18.34 inches. Temperatures during this period were about normal and system demands necessitated the use of 12.34% less imported state project water to meet daily demands.

Regional Updates

In other regional news, the Chino Basin Facilities Improvement Project (CBFIP) has been completed. The purpose of the CBFIP project is to provide storm water; recycled water and imported water recharge facilities improvements required to increase groundwater recharge in the Chino Basin.

The $38.7 Million CBFIP Completed under Budget: The CBFIP project was completed in December 2005. The IEUA Board of Directors has approved three additional Bid Projects: The BP No. 4 Project involves the construction of a canal and 100 linear feet of 48" pipe to convey water to the Jurupa Pump Station. In addition 400 linear feet of 36" diameter cement mortar lined & coated (CML & C) steel pipe force main for delivering water to the 36" Jurupa Pipeline. The; BP No. 5 Project, Jurupa Pump Station, includes a SCADA system consisting of radio controls to monitor and govern water levels in the Chino Basin as well as control the drop inlets and rubber dams. Four monitoring sites will be established at the Chino Basin Water Master (CBWM), Chino Basin Water Conservation District (CBWCD) and the San Bernardino County Flood Control District (SBCFCD) offices with the master controls located at RWRP-1. The SBCFCD offices will include a satellite control station. The BP No. 7 Project, which includes the San Sevaine Channel / Hickory and Banana Basins Improvements was constructed during 2005 and completed on January 16, 2006, closing out the Chino Basin Facilities Improvement Project.

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Form 1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

City of Fontana	Revised June 29, 2010 Original May 18, 2010	
Name of Party	Date Requested	Date Approved
16489 Orange Way	5,000 Acre-feet	Acre-feet
Street Address	Amount Requested	Amount Approved
Fontana CA 92335		
City State Zip Code		
Telephone: (909) 350-6530	Facsimile: (909) 350-6773	

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [X] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

[X] Stabilize or reduce future water costs/assessments.
[ ] Facilitate utilization of other available sources of supply.
[ ] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[X] Other, explain *IEUA has projected that within the next two years they will recharge an average of 17,000 acre feet per year and may reach as much as 25,000 acre feet per year in a dry year. These amounts will exceed the 3,000 acre feet that is currently under contract to the City of Ontario. The City is hereby requesting a storage account for this excess recharge water.*

The City of Fontana as a member Agency of Inland Empire Utilities Agency (IEUA) is entitled to approximately 18.5% of the total amount of recycled water produced and recharged by the agency. The City currently has a contract in place with the City of Ontario for the purchase of the first 3,000 acre feet of this water.

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

[X] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

[ ] Pump from my wells (Form 4)
[X] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

No water levels or water quality will be affected. We are not adding any recharge water we are asking to establish a storage account for our share of the recharge currently taking place through the regional recharge master plan.

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

RECEIVED
JUN 29 2010
CHINO BASIN WATERMASTER

ADDITIONAL INFORMATION ATTACHED Yes [X] No [ ]

Applicant

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

Form 2

APPLICATION FOR RECHARGE

APPLICANT

City of Fontana
Name of Party

16489 Orange Way
Street Address

Fontana | CA | 92335
City | State | Zip Code

Telephone: (909) 350-6530

Revised June 29, 2010
Original May 18, 2010
Date Requested

Date Approved

5,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

CBWM/IEUA Operations
Projected Rate of Recharge

CBWM/IEUA Operations
Projected Duration of Recharge

Facsimile: (909) 350-6773

SOURCE OF SUPPLY

Water from:

- [ ] State Water Project
- [ ] Colorado River
- [ ] Local Supplemental Source: _____
- [X] Recycled Water
- [ ] Other, explain _____

METHOD OF RECHARGE

- [X] PERCOLATION
- [ ] INJECTION
- [ ] EXCHANGE

Basin Name: All recharge basins included in the IEUA/CBWM recharge Water Plan.
Location: _____
Well Number: _____
Location (attach map): See map
Facility Name: _____
Share of Safe Yield: -0-
Carry Over Right: _____
Water in Storage: -0-
Pumping Capacity (cfs): -0-

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

Water quality and water levels will not be affected since we are not increasing the amount of recharge. We are requesting a storage account for recharge that is currently taking place. The City is entitled to approximately 18.5% of the total recharged by IEUA.

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

_____

_____

_____

_____

ADDITIONAL INFORMATION ATTACHED Yes [X] No [ ]

_____
Applicant

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

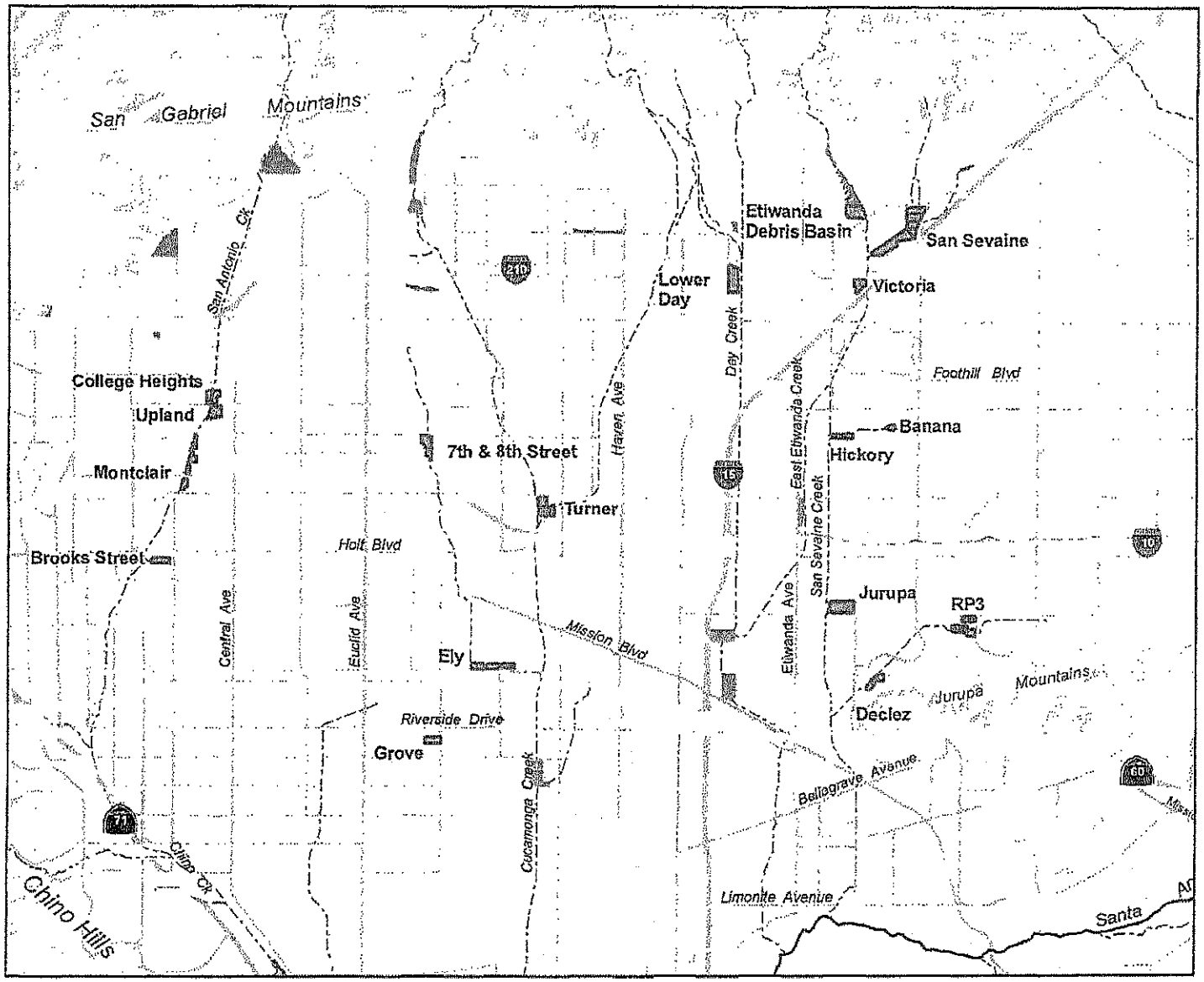
DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

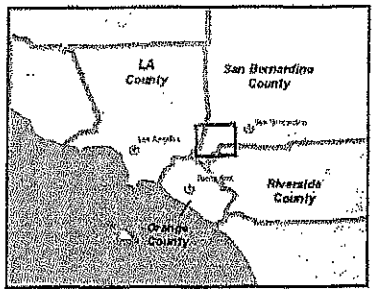
DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____



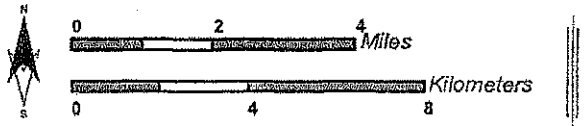
Main Map Features

- Recharge Basins in the Recycled Water Groundwater Recharge Program
- Non-program basins
- Rivers and Streams



Chino Basin Recycled Water Groundwater Recharge Programs

Basin Locations



Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Figure 1-1

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Monte Vista
Dedicated to Quality, Service and Innovation

June 30, 2010

Mark N. Kinsey
GENERAL MANAGER

Mr. Ken Manning, Chief Executive Officer
CHINO BASIN WATERMASTER
9641 San Bernardino Road
Rancho Cucamonga, California 91730

Application for Local Storage Agreement

Dear Mr. Manning:

This letter will transmit Monte Vista Water District's application for a local supplemental storage agreement in the amount of 10,000 acre-feet. The purpose of this storage account would be to store recycled water recharged on behalf of the District by Inland Empire Utilities Agency and to store supplemental water injected at District ASR Wells 4, 30, and 32.

Thank you for your assistance in this matter. Should you have any questions, please contact the District at your convenience.

Sincerely,

Monte Vista Water District

Mark N. Kinsey
General Manager

Attachments

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Form 1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

Monte Vista Water District
Name of Party

June 30, 2010
Date Requested

Date Approved

10575 Central Avenue
Street Address

10,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

Montclair | CA | 91763
City | State | Zip Code

Telephone: (909) 624-0035

Facsimile: (909) 624-0037

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [X] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

[X] Stabilize or reduce future water costs/assessments.
[X] Facilitate utilization of other available sources of supply.
[X] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[ ] Other, explain _____

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

[X] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

[X] Pump from my wells (Form 4)
[ ] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

No water levels or water quality will be affected. We are not adding any recharge water, we are asking to establish a storage account for our share of the recharge currently taking place through the regional recharge master plan and water injected at District ASR Wells 4, 30, and 32.

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

ADDITIONAL INFORMATION ATTACHED Yes [ ] No [X]

Applicant Mark N. Kinsey

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

Form 2

APPLICATION FOR RECHARGE

APPLICANT

Monte Vista Water District
Name of Party

June 30, 2010
Date Requested

Date Approved

10575 Central Avenue
Street Address

10,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

Montclair | CA | 91763
City | State | Zip Code

Projected Rate of Recharge

Projected Duration of Recharge

Telephone: (909) 624-0035

Facsimile: (909) 624-0037

SOURCE OF SUPPLY

Water from:

- [ ] State Water Project
- [ ] Colorado River
- [ ] Local Supplemental — Source: IEUA
- [X] Recycled Water
- [ ] Other, explain

METHOD OF RECHARGE

- [X] PERCOLATION
  - Basin Name: All basins included in the IEUA/CBWM recharge water plan
  - Location:
- [X] INJECTION
  - Well Number: 4, 30, 32
  - Location (attach map): See map for recycled water recharge basins
- [ ] EXCHANGE
  - Facility Name:
  - Share of Safe Yield: 0
  - Carry Over Right:
  - Water in Storage: 0
  - Pumping Capacity (cfs): 0

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

Water quality and water levels will not be affected since we are not increasing the amount of recharge. We are requesting a storage account for recycled recharge that is currently taking place and for injection pursuant to our approved recharge application with Watermaster. The District is entitled to approximately 5% of the total recharged by IEUA.

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

_____

_____

_____

_____

ADDITIONAL INFORMATION ATTACHED Yes [X] No [ ]

_____
Applicant Mark N. Kinsey

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

Form 1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

Fontana Water Company
Name of Party

April 20, 2011
Date Requested

Date Approved

15966 Arrow Route
Street Address

10,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

Fontana | CA | 92335
City | State | Zip Code

Telephone: (909) 822-2201

Facsimile: (909) 823-5046

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [ ] Local Supplemental or Imported [X] Both

PURPOSE OF STORAGE - Check all that may apply

[X] Stabilize or reduce future water costs/assessments.
[X] Facilitate utilization of other available sources of supply.
[X] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[ ] Other, explain _____

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

[X] Recharge (Form 2)
[X] Transfer of Right to Water in Storage (Form 3)
[X] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

[X] Pump from my wells (Form 4)
[X] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

ADDITIONAL INFORMATION ATTACHED Yes [X] No [ ]

Applicant

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

Form 2

APPLICATION FOR RECHARGE

APPLICANT

Fontana Water Company
Name of Party

April 20, 2011
Date Requested

Date Approved

15966 Arrow Route
Street Address

10,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

Fontana | CA | 92335
City | State | Zip Code

Projected Rate of Recharge

Projected Duration of Recharge

Telephone: (909) 822-2201

Facsimile: (909) 823-5046

SOURCE OF SUPPLY

Water from:

[ ] State Water Project
[ ] Colorado River
[ ] Local Supplemental Source: _____
[ ] Recycled Water
[X] Other, explain To be determined

METHOD OF RECHARGE

[ ] PERCOLATION
- Basin Name _____
- Location _____

[ ] INJECTION
- Well Number _____
- Location (attach map) _____

[ ] EXCHANGE
- Facility Name _____
- Share of Safe Yield _____
- Carry Over Right _____
- Water in Storage _____
- Pumping Capacity (cfs) _____

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [ ]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

_____

_____

_____

_____

ADDITIONAL INFORMATION ATTACHED Yes [ ] No [ ]

_____
Applicant

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

Form 1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

Inland Empire Utilities Agency
Name of Party

June 24, 2011
Date Requested

Date Approved

PO Box 9020
Street Address

25,000 Acre-feet
Amount Requested

Acre-feet
Amount Approved

Chino Hills | CA | 91709
City | State | Zip Code

Telephone: 909-993-1600

Facsimile: 909-993-9000

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [X] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

[X] Stabilize or reduce future water costs/assessments.
[ ] Facilitate utilization of other available sources of supply.
[ ] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[x] Other, explain Preemptive replenishment purchase for Desalter obligations estimated to begin in 2013.

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

[X] Recharge (Form 2) Form 2 is not required—CBWM will be recharging as preemptive replenishment water.
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

[ ] Pump from my wells (Form 4) The water will be transferred to CBWM for future Desalter
[X] Transfer to another party to the Judgment (Form 3) replenishment obligations on behalf of the Parties.

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

N/A

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

ADDITIONAL INFORMATION ATTACHED Yes [ ] No [X]

_____
Applicant

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

PUBLIC WORKS DEPARTMENT
1370 North Benson Avenue
Upland, California 91786-0460
Telephone (909) 291-2930
Facsimile (909) 291-2974

November 29, 2011

Danielle D. Maurizio, PE, Senior Engineer, Interim CEO
Chino Basin Watermaster
9641 San Bernardino Rd.
Rancho Cucamonga, CA. 91730

Subject: Local Storage Agreement, Chino Groundwater Basin

Dear Mrs. Maurizio:

This letter is the City of Upland's formal submission of the appropriate application for Local Storage Agreement (Form1), application for recharge (Form 2), and request for a Standard Local Storage Agreement (Form 8). The City of Upland completed the construction of a large storm, supplemental/imported water recharge basin (Upland Basin) located approximately on the south east corner of Monte Vista Avenue and Arrow Route through a significant investment by its local community. The City has allowed Chino Basin Watermaster to use the Upland Basin for the benefit of the regional recharge program.

The City of Upland makes this request to exercise and use its Upland Basin for recharge of local non-native water resources up to 9,500AF, which it has as part of its water resource supply portfolio. These local non-native water supplies include the City's direct water and water through it shareholder entitlement and partnerships with San Antonio Water Company and West End Consolidated Water Company, and Inland Empire Utilities Agency. These non-native local water supplies include water resources from San Antonio Canyon, Six Basins, and Cucamonga Basin. The recharge of this local non-native water is consistent with the groundwater recharge objectives, increase reliability of local water supplies, and reduced dependence on imported water. Furthermore, these local water supplies are of high water quality improving the overall long-term water quality characteristics in the Chino Groundwater Basin.

Pursuant to the Judgment and supplemental filings "Watermaster shall approve the storage of Supplemental water under a Local Storage Agreement" so long as:

(1) The total quantity of Supplemental Water authorized to be held in Local Storage under all then existing Local storage Agreement, other than amounts classified as Supplemental water under the procedures set forth in Article VII Section 8.1, for all parties does not exceed the cumulative total of 100,000 AF (Peace II Provision);
(2) The party to the Judgment making the request provides their own Recharge facilities for the purpose of placing the Supplemental Water into Local Storage (Upland Basin);
(3) The agreement will not result in Material Physical Injury to any party to the Judgment or the basin. Watermaster may approve a proposed agreement with conditions that mitigate any threatened potential Material Physical Injury.

It is anticipated, this storage will be used to assist parties to the judgment in their groundwater production or over production replenishment obligations.

For the aforementioned reasons, this request is consistent with the basin management objectives and development of local high quality water supply.

I look forward to the positive and timely prosecution of these applications, as the City would like to commence recharge activities at this location. Should you require additional information or a clarification on these submittals please contact me at (909) 291-2931.

Sincerely,

Rosemary Hoerning, PE
Public Works Director/City Engineer
City of Upland

Att. Form 1 Application for Local Storage Agreement
Form 2 Application for Recharge & Location Map
Form 8 Chino Basin Watermaster, Standard Local Storage Agreement

cc: Ken Willis, Chino Basin Watermaster Chair
Stephen Dunn, City Manager

Form 1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

City of Upland
Name of Party

460 N. Euclid Ave.
Street Address

Upland | CA | 91786
City | State | Zip Code

Telephone: (909) 291-2931

11/29/11
Date Requested

9,500 Acre-feet
Amount Requested

Date Approved

Acre-feet
Amount Approved

Facsimile: (909) 291-2974

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [✓] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

[✓] Stabilize or reduce future water costs/assessments. (Upland Rate Payors)
[✓] Facilitate utilization of other available sources of supply. (Put other local supply to beneficial use)
[ ] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[✓] Other, explain
Transfer to other parties

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

[✓] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

[ ] Pump from my wells (Form 4)
[✓] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?
Recharge water will be high quality. Groundwater levels will be similar, as this is an existing recharge basin facility

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [✓]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

ADDITIONAL INFORMATION ATTACHED Yes [✓] No [ ]

Applicant , City of Upland

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

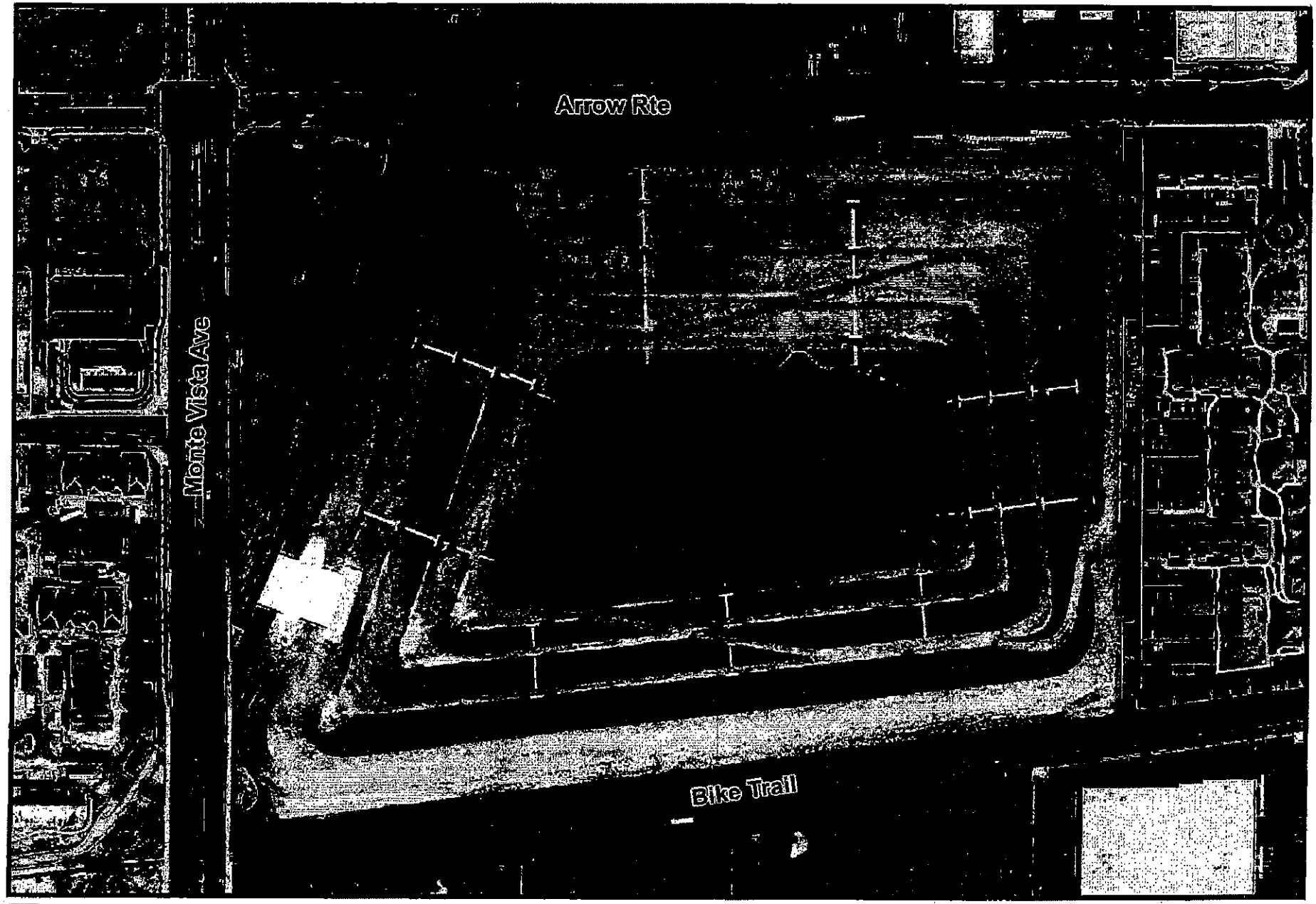
DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____



Upland Basin

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Form 2

APPLICATION FOR RECHARGE

APPLICANT

City of Upland — Name of Party

11/29/11 — Date Requested

Date Approved

460 N. Euclid Ave. — Street Address

9,500 Acre-feet — Amount Requested

Acre-feet — Amount Approved

Upland — City | CA — State | 91786 — Zip Code

1 Foot Per day — Projected Rate of Recharge

Varies — Projected Duration of Recharge

Telephone: 909-291-2931

Facsimile: 909-291-2974

SOURCE OF SUPPLY

Water from:

- [ ] State Water Project
- [ ] Colorado River
- [✓] Local Supplemental — Source: Upland/SAW Co.-Six Basins, San Antonio Canyon, and Cucamonga Basin Water and IEUA Recycled Water
- [ ] Recycled Water
- [ ] Other, explain

METHOD OF RECHARGE

- [✓] PERCOLATION
- [ ] INJECTION
- [ ] EXCHANGE

Basin Name: Upland Basin

Location: SEC Monte Vista Ave. & Arrow Rte., Upland

Well Number: N.A.

Location (attach map):

Facility Name: Upland Basin

Share of Safe Yield: 5.202%

Carry Over Right: Per Judgement

Water in Storage:

Pumping Capacity (cfs):

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

Recharge water will be high quality. Groundwater levels will be similar, as this is an existing recharge basin facility

July 2001

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [✓]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

_____

_____

_____

_____

ADDITIONAL INFORMATION ATTACHED Yes [✓] No [ ]

Rosemary Hoerning

Applicant , City of Upland

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

San Antonio Water Company

Incorporated October 25, 1882

Serving the original Ontario Colony lands

December 1, 2011

Ms. Danni Maurizio
Interim General Manager
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

SUBJECT: Application for Local Storage Agreement & Recharge

Dear Danni:

Enclosed are the forms for the San Antonio Water Company's application for a Local Storage Agreement and Recharge into Chino Basin via Upland Basin or Montclair Basin 1 off of the San Antonio Channel.

We ask that you process our application for the Pool's approval. If you have any questions, please call me at 909.982.4107.

Sincerely,

Charles Moorrees
General Manager
lcm

Cc: File

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Form 1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

SAN ANTONIO WATER CO.
Name of Party

12-1-11
Date Requested

Date Approved

139 N. EUCLID AVE.
Street Address

2,000 AF Acre-feet
Amount Requested

Acre-feet
Amount Approved

UPLAND CA 91786
City State Zip Code

Telephone: 909.982.4107 Facsimile: 909.920.3047

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [X] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

[ ] Stabilize or reduce future water costs/assessments.
[ ] Facilitate utilization of other available sources of supply.
[ ] Facilitate replenishment under certain well sites.
[X] Preserve pumping right for a changed future potential use.
[ ] Other, explain _____

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

[X] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

[ ] Pump from my wells (Form 4)
[ ] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

(SEE ATTACHED)

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

ADDITIONAL INFORMATION ATTACHED Yes [X] No [ ]

Applicant CHARLES MOORGES

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

Form 2

APPLICATION FOR RECHARGE

APPLICANT

SAN ANTONIO WATER CO.
Name of Party

12-1-11
Date Requested

Date Approved

139 N. EUCLID AVE.
Street Address

1,500 Acre-feet
Amount Requested

Acre-feet
Amount Approved

UPLAND | CA | 91786
City | State | Zip Code

250 AF/MONTH
Projected Rate of Recharge

JAN - JUNE
Projected Duration of Recharge

Telephone: 909.982.4107

Facsimile: 909.920.3047

SOURCE OF SUPPLY

Water from:

- [ ] State Water Project
- [ ] Colorado River
- [ ] Local Supplemental — Source: SAN ANTONIO CREEK
- [ ] Recycled Water
- [X] Other, explain — SAN ANTONIO WATER COMPANY ENJOYS A MAJORITY OF SURFACE WATER RIGHTS IN THE CREEK

METHOD OF RECHARGE

[X] PERCOLATION

Basin Name: UPLAND BASIN & MONTCLAIR BASIN 1

Location: SE MONTE VISTA & ARROW / E/O SA CHANNEL S/O ARROW HWY.

[ ] INJECTION

Well Number: _____

Location (attach map): _____

[ ] EXCHANGE

Facility Name: _____

Share of Safe Yield: _____

Carry Over Right: _____

Water in Storage: _____

Pumping Capacity (cfs): _____

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

EXCELLENT WATER QUALITY FROM THE SA CREEK WATERSHED. (WATERSHED SANITARY SURVEY FINDINGS & CONCLUSIONS ARE ATTACHED) POSITIVE AFFECT ON WATER LEVELS IN MZ1.

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

_____

_____

_____

_____

ADDITIONAL INFORMATION ATTACHED Yes [X] No [ ]

- SAN ANTONIO CREEK SANITARY SURVEY FINDINGS & CONCLUSIONS
- UPLAND & MONTCLAIR BASIN

Applicant CHARLES MOORREES

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

SECTION 6

WATERSHED SANITARY SURVEY FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

FINDINGS

1. The monitoring of the watershed as recommended in the 2000 WSS has been performed and it is clear that cryptosporidium and giardia concentrations in San Antonio Creek are very low. So low that the City of Pomona's Pedley Filtration Plant has been given a "Bin1" classification under L2ESWTR.
2. The general mineral water quality of San Antonio Creek has not changed measurably since 1994 as shown in Table 4-2c presented in Section 4
3. Average monthly raw water turbidity in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant has not changed significantly from the previous period, though turbidity in 2001-2005 was higher than previous years. This is likely due to the Grand Prix Fire.
4. Average monthly total coliform levels in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant have changed significantly for the better from the1995-99 period. This can be seen in Figure 4-9a.
5. Average monthly fecal coliform levels in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant have not changed significantly from previous periods. See Figure 4-9b.
6. Average monthly HPC levels in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant were higher in 2001 - 2005 than previous 5-year periods and the 2006 – 2010 period. See Figure 4-9c.
7. Evey Canyon intake to the City of Pomona's pipeline appears to a significant source of coliform and E. coli. The source of these microorganisms is not known. There are recommendations for increased monitoring of the this area to determine the possible sources. See Figures 4-11a and b. It is also noteworthy to look at Figures 4-19a and 4-19b. The total coliform concentration at SACWTP is substantially less than that measured at Evey Canyon and the Pedley Filtration Plant raw water inlet. The SACWTP source is the 60/40 weir box. This further supports the finding that Evey Canyon is a significant source of coliform found in the Pedley Filtration Plant inlet raw water.
8. THM and HAA5 levels in the treated water are well below the Disinfectant and Disinfection by-product rule requirements for both the Cities of Pomona and Upland. HAA5 concentrations are well below the MCL, even with the LRAA method of computation. TTHM concentrations were also well below the MCL even with the LRAA method of computation. See Table 4-4a, 4-4b, 4-7a, and 4-7b.
9. The City of Upland made major reductions in the TTHM concentration in the distribution system between the 2001-2005 period and the 2006-2010 period. See Tables 4-7a, and 4-7b

10. Recreational activities in the watershed continue to be a concern particularly as they relate to disposal of trash.
11. Septic tanks and subsurface wastewater disposal systems continue to exist and still pose a threat to water quality. Some could be impacted by high flood flows. The largest of the systems (portion of Mt. Baldy Village and Mt. Baldy School) are now under a Regional Water Quality Control Board Waste Discharge Permit which requires regular monitoring and reporting.
12. The SACMSC has made improvements to the wastewater disposal system for the portion of the Mt. Baldy Village which is served by the company. This included an "all gravity" system from inlet to disposal which will minimize spills and overflows. The installation of the Pirana™" system has immensely improved the quality of the effluent which is percolated in the leach field.
13. Watershed signage which was recommended in the 2000 WSS has not been installed. The terrorist attacks on 9/11/01 forced water suppliers to think of security and not call attention to the fact that the creek is a source of water. The USFS has implemented a programs of "Leave No Trace" and "Tread Lightly" to educate the public to "pick up after themselves.
14. The City of Pomona and City of Upland water treatment plants will comply with the Stage 2 Disinfectant and Disinfection by-products rule and the Long Term 2 Enhanced Surface Water Treatment Rule.
15. The USFS has extended the leases of the private cabins on public lands for another 20 years. There are still concerns over the "permanent occupancy" of some of the cabins. The USFS reports that a prevention officer visits the cabins semi-annually to check on brush clearance and the USFS states that officer would also note any water quality issues. A follow-up for compliance is made. The Cities, SAWCO or the Watershed Committee however are not notified of the compliance orders. The USFS should make sure the prevention and compliance personnel are trained in observing conditions that could impact water quality.
16. The San Antonio Watershed Committee meets bi-monthly to discuss matters of mutual interest in the watershed.
17. Recreational use of the watershed is continuing at a high level. The imposition of the USFS $5 use fee has not brought about a permanent reduction in recreational activities.
18. Permanent vault toilets have been constructed at Manker Campground and at the end of the road at Ice House Canyon. Portable toilets were observed at the ski area parking lot.
19. The "Friends of the River" have proposed making a portion of San Antonio Creek from the falls to its headwaters as "WILD and SCENIC." This will protect the area but not impact its recreational use.

CONCLUSIONS

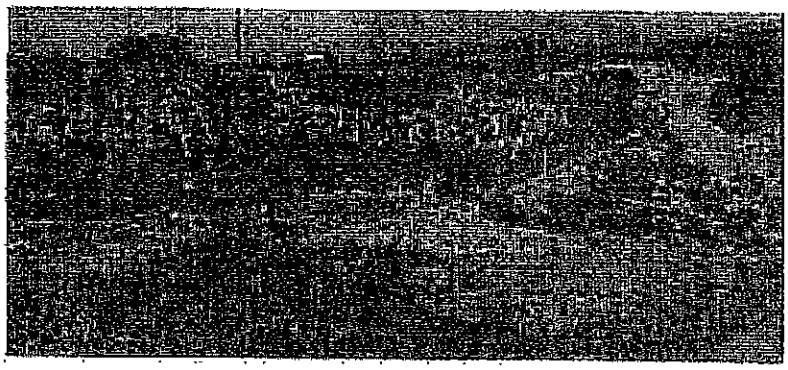
1. Water quality in San Antonio Creek continues to be of relatively high quality.

2. Microbiological contamination of the watershed is not showing any increasing trends. The City of Pomona's Evey Canyon intake appears to be a significant source of coliform.
3. Giardia and cryptosporidium concentrations in San Antonio Creek are minimal and the costly sampling could be reduced significantly.
4. The San Antonio Watershed Committee should continue their bimonthly meetings and their watershed activities.

RECOMMENDATIONS

1. The cryptosporidium and giardia monitoring currently carried out at the Upper, Middle, Lower Intake and Ice House Canyon should be reduced to once every 2 years.
2. The City of Pomona should carefully monitor the total coliform and E. coli in the Evey Canyon intake and try to identify the sources if possible.
3. The USFS should keep the Watershed Committee (and the Agencies) informed of their inspections of the cabins and compliance orders.
4. The Watershed Committee should receive copies of the reports prepared by the SACMSC for the Regional Water Quality Control Board.
5. The intake pipelines, including the SCE pipelines should be inspected on an annual basis, preferably after the heavy spring runoff season. (This was one of the recommendations in the 1995 WSS and should be discussed at the Watershed meetings since SCE is a member of the Committee.)
6. A mechanism needs to put in place, if it is not already in place, to alert the Agencies of vehicle accidents which could discharge chemicals or contaminants into the watercourse. (This was one of the recommendations in the 1995 WSS.)
7. The Agencies in conjunction with the USFS should continue and, if possible, expand their public education program of the need to protect the San Antonio Creek watershed. (This was one of the recommendations in the 1995 WSS.)
8. The County of Los Angeles and the County of San Bernardino Building and Safety Departments should notify the Watershed Committee when there are modifications or replacements of existing septic tank systems or any new systems installed or failure or overflow of existing systems.
9. The USFS should locate the septic tank and leach field at the Lower San Antonio Fire Station at Shinn Road and provide the Watershed Committee with a report on when it is pumped.
10. The USFS should require special use cabin owners (or the septic tank pumers) to provide records to the USFS when these cabin septic tanks are pumped. These reports should be provided to the Watershed Committee on an annual basis.
11. There needs to be communication between the Los Angeles County Department of Public Works Crews and Contractors when they are planning on working in the Creek as the impact on the water supply intakes from the turbidity is significant.

Upland Basin



Location

Management Zone No. 1

Upland Basin is located in the southeast corner of Monte Vista Avenue and Arrow Route in the City of Montclair, California.

Ownership

City of Upland

Potential Recharge Water Supply Sources

- Storm Water
- Recycled Water
- Imported Water (SWP)

Effective Spreading Area

10.1 acres

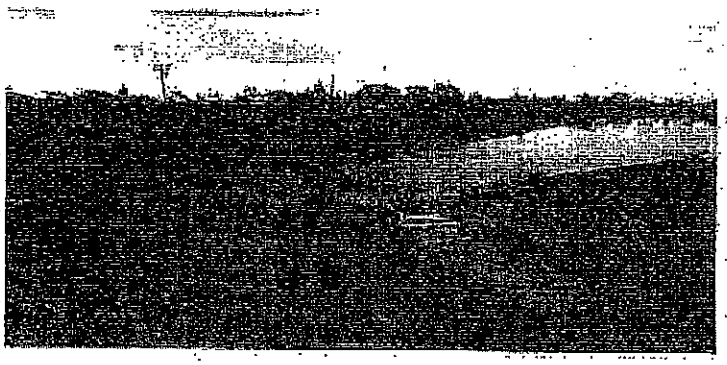
Percolation Rate

3.0 ft/day

Description

Upland Basin was once a quarry mining area. There exists one inlet for local runoff into the basin. There are no outlets for the basin.

Montclair Basins



Location

Management Zone No. 1

Montclair Basins consists of four basins (M1-M4) located in series to the east of San Antonio channel between Arrow Highway and San Bernardino Avenue.

Ownership

Chino Basin Water Conservation District

Potential Recharge Water Supply Sources

- Storm Water Captured from the San Gabriel Mountain Watersheds
- Recycled Water
- Imported Water (SWP)

Effective Spreading Area

Montclair 1	6.8 acres
Montclair 2	10.9 acres
Montclair 3	3.9 acres
Montclair 4	6.6 acres

Percolation Rate

Montclair 1	2.0 ft/day
Montclair 2	2.5 ft/day
Montclair 3	1.5 ft/day
Montclair 4	1.0 ft/day

Description

Montclair 1 (M1) receives water from the San Antonio channel via a drop inlet structure and 48-inch RCP. There are two additional storm water inlets for M1. A 24-inch gate outlet and a spillway structure convey flows underneath Moreno Avenue from M1 to Montclair 2 (M2).

In addition to the inlet structure from M1, there is also a 36-inch diameter storm water inlet into the spreading basin. On the west side of the basin is a low-flow outlet and an overflow, concrete spillway that leads into San Antonio Channel. The outlet structure conveying flows to Montclair 3 (M3) consists of two 36-inch diameter pipes that run beneath San Jose Avenue.

In addition to the inlet structure from M2, an open channel delivers storm water runoff from Montclair Plaza and the surrounding areas. There is an overflow spillway that conveys water under I-10 and into San Antonio Channel. An 8-foot by 6-foot outlet box delivers water to Montclair 4 (M4).

In addition to the inlet structure from M3, there is also a 16-inch diameter storm water inlet. A concrete, rectangular, outlet structure at the south end of the basin delivers water to San Antonio Channel.

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CHINO BASIN WATERMASTER

IV. REPORTS/UPDATES

B. CEO/STAFF REPORT

2. Notice of Availability of Non-Agricultural Pool Water

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

NOTICE OF AVAILABILITY

Pursuant to Judgment Exhibit "G," By December 31st of each year, the members of the Overlying (Non-Agricultural) Pool shall notify Watermaster of the amount of water each member shall make available in their individual discretion for purchase by the Appropriators.

By January 31st of each year, Watermaster shall provide a Notice of Availability of each Appropriator's pro-rata share of such water.

On December 16, 2011, California Speedway notified Watermaster of availability of 250 acre-feet of water for purchase by the Appropriators at a purchase price of $406.64/acre-foot, which is 92-percent of the 2012 MWD Replenishment Rate of $442 (attached). This is the amount of water available in 2012 for purchase under Exhibit "G."

A table is attached that allocates the amount of water available to each Appropriator, should each Appropriator want to purchase their share of the water. Appropriators have until March 1, 2012 to notify Watermaster if they are each interested in purchasing their allocation of the water. If interested please contact Danielle Maurizio at dmaurizio@cbwm.org.

Potential Allocation of the Purchase of the January 2012 Non-Ag Pool Stored Water

The Judgment Amendment to Exhibit G (Attachment "I" to the Peace II Agreement) states:

9(a) By December 31 of each year, the members of the Overlying (Non-Agricultural) Pool shall notify Watermaster of the amount of water each member shall make available in their individual discretion for purchase by the Appropriators. By January 31 of each year, Watermaster shall provide a Notice of Availability of each Appropriator's pro-rata share of such water;

9(b) Except as they may be limited by paragraph 9(e) below, each member of the Appropriative Pool will have, in their discretion, a right to purchase its pro-rata share of the supply made available from the Overlying (Non-Agricultural) Pool at the price established in 9(d) below. Each Appropriative Pool member's pro-rata share of the available supply will be based on each Producer's combined total share of Operating Safe Yield and the previous year's actual Production by each party;

9(c) If any member of the Appropriative Pool fails to irrevocably commit to their allocated share by March 1 of each year, its share of the Overlying (Non-Agricultural) Pool water will be made available to all other members of the Appropriative Pool according to the same proportions as described in 9(b) above and at the price established in Paragraph 9(d) below. Each member of the Appropriative Pool shall complete its payment for its share of water made available by June 30 of each year.

Party	Assigned Share of Operating Safe Yield	DRAFT 2010-2011 Actual Production	DRAFT 2010-2011 Production & Exchanges	DRAFT "Averaged" Production & Exchanges	250 Based on Operating Safe Yield	250 Based on Averaged Prod & Exch	250 50% OSY & 50% Averaged Prod & Exch	Cost for Each Party's Allocation @ $406.64/AF
Arrowhead Mtn Spring Water Co	-	408.457	408.457	408.457	-	1.236	**0.618**	$ **251.36**
Chino Hills, City Of	2,111.422	1,766.644	1,766.644	1,766.644	9.626	5.347	**7.487**	$ **3,044.44**
Chino, City Of	4,033.857	689.932	673.146	681.539	18.391	2.063	**10.227**	$ **4,158.72**
Cucamonga Valley Water District	3,619.454	20,317.710	19,334.924	19,826.317	16.502	60.010	**38.256**	$ **15,556.30**
Desalter Authority	-	-	-	-	-	-	-	$ -
Fontana Union Water Company	6,391.736	-	-	-	29.141	-	**14.571**	$ **5,925.01**
Fontana Water Company	1.000	8,348.453	8,348.452	8,348.453	0.005	25.269	**12.637**	$ **5,138.57**
Fontana, City Of	-	-	-	-	-	-	-	$ -
Golden State Water Company	411.476	443.945	443.945	443.945	1.876	1.344	**1.610**	$ **654.63**
Jurupa Community Services District	2,061.118	14,228.882	13,501.296	13,865.089	9.397	41.966	**25.682**	$ **10,443.21**
Marygold Mutual Water Company	655.317	1,107.368	1,107.368	1,107.368	2.988	3.352	**3.170**	$ **1,288.94**
Monte Vista Irrigation Company	676.759	-	-	-	3.085	-	**1.543**	$ **627.34**
Monte Vista Water District	4,823.954	11,858.760	8,869.574	10,364.167	21.993	31.370	**26.682**	$ **10,849.83**
Niagara Bottling, LLC	-	1,344.692	1,344.692	1,344.692	-	4.070	**2.035**	$ **827.53**
Nicholson Trust	4.000	-	-	-	0.018	-	**0.009**	$ **3.71**
Norco, City Of	201.545	-	-	-	0.919	-	**0.459**	$ **186.83**
Ontario, City Of	11,373.816	14,259.954	10,604.065	12,432.010	51.856	37.629	**44.742**	$ **18,193.97**
Pomona, City Of	11,215.852	10,527.824	10,527.824	10,527.824	51.135	31.865	**41.500**	$ **16,875.70**
San Antonio Water Company	1,506.888	716.095	716.095	716.095	6.870	2.167	**4.519**	$ **1,837.54**
San Bernardino County Shtg Prk	-	17.605	17.605	17.605	-	0.053	**0.027**	$ **10.83**
Santa Ana River Water Company	1,301.374	12.514	12.514	12.514	5.933	0.038	**2.986**	$ **1,214.05**
Upland, City Of	2,852.401	733.813	733.813	733.813	13.005	2.221	**7.613**	$ **3,095.71**
West End Consolidated Water Company	947.714	-	-	-	4.321	-	**2.160**	$ **878.51**
West Valley Water District	644.317	-	-	-	2.938	-	**1.469**	$ **597.27**
Total	54,834.000	86,782.648	78,410.414	82,596.531	250.000	250.000	**250.000**	$ **101,660.00**

AUTO CLUB SPEEDWAY

December 16, 2011

Chino Basin Watermaster
Attn: Danni Maurizio
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

RE: Notice of Availability - Judgment Exhibit G

Dear Ms. Maurizio:

As required by Exhibit G – Paragraph 9, this letter serves as notice that for this year Auto Club Speedway makes available for purchase two-hundred fifty (250) acre feet of water held in storage at a purchase price of $406.64/AF ($442.00 x 92%).

Please contact my office with any questions.

Regards,

Brian Geye
Senior Director, Operations

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CHINO BASIN WATERMASTER

IV. REPORTS/UPDATES

B. CEO/STAFF REPORT

3. WEI Analysis of Well Design for CDA Well I-20

WILDERMUTH™
ENVIRONMENTAL INC.

December 22, 2011

Chino Basin Watermaster
Attention: Danni Maurizio
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

Re: Recommended Design for Well I-20 and Consistency with the OBMP/Peace II

Danni,

The last three production wells for the Chino Creek Well Field (CCWF) are now being drilled and constructed under the direction of GSi/water (GSi)—the hydrogeology consultant for the Chino Basin Desalter Authority (CDA). Well I-20 is the fourth CCWF well to be constructed. GSi has documented the borehole/testing data and recommended a well design (see attached letter). The key information from this letter are summarized below:

Well I-20	
Borehole depth	600 ft-bgs
Depth to groundwater	~60 ft-bgs
Proposed screened intervals	120-225, 280-325, 355-505 ft-bgs
Proposed filter-pack interval	75-545 ft-bgs
TDS	750 to 1400 mg/L
Nitrate (as nitrate)	140 to 380 mg/L

I have met and spoken with staff at GSi to review the borehole/testing data and the proposed well design for Well I-20. GSi (representing the CDA) is asking that Watermaster staff approve the proposed well design before well construction begins—specifically, the screened and filter-packed intervals. Note that the attached well design letter states that the deeper screened well casing (280-325 and 355-505 ft-bgs) will be back-filled with gravel and capped with a cement seal after well development to prevent pumping from the deep, confined aquifers.

Per the OBMP and the Peace II Agreement, Watermaster's primary concerns for the CCWF are that (1) hydraulic control is achieved in this area and (2) the occurrence of pumping-induced land subsidence is minimized to tolerable levels. After review of the data and the well design letter, it is our opinion that the CDA's recommended design for Well I-20 is consistent with objectives OBMP and the Peace II Agreement. This opinion applies only the proposed well construction, and does not imply approval of how this well is ultimately operated by the CDA.

Sincerely,

Andrew E. Malone, PG
Wildermuth Environmental, Inc.

23692 Birtcher Drive, Lake Forest, CA 92630 Tel: 949.420.3030 Fax: 949.420.4040 www.wildermuthenvironmental.com

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1499 HUNTINGTON DRIVE
SUITE 402
SOUTH PASADENA
CALIFORNIA 91030
GSi /water
(626) 441 - 0039

December 22, 2011

Ms. Daynan K. Rigg
Senior Project Manager
SAIC Energy, Environment & Infrastructure, LLC
15373 Innovation Drive, Ste 390
San Diego, CA 92128

Mr. Jack Safely
Director of Water Resources
Western Municipal Water District
14205 Meridian Parkway
Riverside, CA 92518

Subject: **Chino Desalter Authority Well I-20**
Recommended Casing, Screen and Gravel Pack Design

Dear Ms. Rigg, Mr. Martinez and Mr. Safely:

This letter summarizes the casing, screen and gravel pack design recommendations for the Chino Basin Desalter Authority (CDA) Well I-20 located on the southern margin of the Chino Airport at approximately 7906 Kimball Avenue, just west of Mill Creek Avenue in Chino, California. The specified well design is based on evaluation of the lithologic samples collected during pilot hole drilling, geophysical logs, sieve analysis of selected soil sample intervals and the results of isolated aquifer zone testing.

The pilot hole at I-20 was drilled to 600 ft below ground surface (bgs). In general, formation materials consist of inter-bedded sand, silt and clay to approximately 505 ft. Thin layers of sand and gravel approximately 5 to 10 ft thick are interspersed between accumulations of silt and clay ranging in thickness from about 15 to 70 ft. The thickest accumulations of coarse sand and gravel occur between 110 – 140 and 405 – 505 ft bgs. Clay was encountered from 505 ft depth to the bottom of the borehole.

Isolated Aquifer Zone Testing

Between November, 30 – December 3, 2011, three isolated aquifer zone tests were performed. The discharge rate and field water quality parameters for each zone are summarized in Table 1.

Table 1. Results from Aquifer Zone Testing CDA I-20

Zone No.	Depth of Zone (ft bgs)	Static Water Level (ft bgs)	Pumping Water Level (ft bgs)	Water Level Drawdown (ft)	Average Discharge Rate (gpm)	Pumping Duration (hrs)	Field pH* -	Field Electrical Conductivity* (mS/cm)	Field Water Temperature* (ºC)
1	280 - 300	71.6	150.95	79.35	52.4	13.3	8.3	270	22.3
2	195 - 215	63.5	80.9	17.4	63.1	3.4	8.1	1010	21.3
3	115 - 135	60.9	69.6	8.7	51.3	5.2	7.3	1830	20.5

** Field water quality parameters measured at the end of testing after parameters had been stable for one hour.*

Summary of Aquifer Zone Testing and Ground Water Quality

The depth to static water level (SWL) measured in Zone 1 (280 – 300 ft bgs) was 8 to 10 ft lower than in the upper zones. Water quality is also significantly different in Zone 1, with much lower salinity and slightly lower pH. This suggests that Zone 2 and 3 are likely part of the same aquifer system, which is separate from the lower zone. Lithologic and geophysical logs indicate that a 65-ft thick layer of tight silt exists between about 215 to 280 ft bgs. This interval is interpreted to provide a semi-impermeable layer separating the two aquifer systems.

Average discharge rates ranged from about 51 to 63 gallons per minute (gpm). Water level drawdown was about 79 ft in Zone 1 (lower aquifer system) and ranged from about 9 to 17 ft for Zones 2 and 3 (upper aquifer system). By the end of testing in each zone, pumping water levels had stabilized, indicating that the yield from these zones can be sustained for at least three hours.

Water quality results from aquifer zone testing for select constituents are summarized in Table 2, as reported by Clinical Laboratory of San Bernardino, Inc. of Grand Terrace, California.

Zones 2 and 3 (Upper Aquifer System)

Total dissolved solids (TDS) concentrations in Zones 2 and 3 were reported to be 750 and 1,400 mg/L respectively, above the recommended limit of the California Department of Public Health (CDPH) Secondary Maximum Contaminant Level (MCL) of 500 mg/L. Nitrate concentrations in Zones 2 and 3 were reported to be respectively 140 and 380 mg/L (nitrate as nitrate), above the CDPH primary MCL of 45 mg/L.

Iron concentrations were reported to be 310 µg/L for Zone 2, above the recommended limit for the CDPH Secondary MCL of 300 µg/L. Reported iron concentration in Zone 3 was 220 µg/L, below the Secondary MCL. Manganese concentrations were reported to be 57 µg/L for Zone 3, above the recommended limit of the CDPH Secondary MCL of 50 µg/L. Reported manganese concentration in Zone 2 was 30 µg/L, below the Secondary MCL.

Toluene was the only volatile organic compound (VOC) that was detected in Zones 2 and 3, with reported concentrations of 6.1 and 54 µg/L respectively, below the CDPH primary MCL of 150 µg/L. Upon request, to confirm whether the presence of toluene might have been a laboratory artifact, the sample collected for Zone 3 was re-run. Results agreed with those from the first analysis.

Zones 1 (Lower Aquifer System)

Total dissolved solids and nitrate (as nitrate) concentrations in Zone 1 were reported to be 180 and 7.3 mg/L respectively, below the CDPH primary MCLs for these constituents. Likewise for iron and manganese, with reported concentrations of 290 and 27 µg/L respectively. Aluminum concentrations, however, were reported to be 250 µg/L, above the CDPH primary MCL of 200 µg/L.

Because of the large proportion of silt in this interval, discharge from Zone 1 required 13 hours to clear to acceptable levels. At the end of testing, field turbidity measured 4.93 NTU.

Toluene was the only VOC detected in Zone 1, with reported concentration of 450 µg/L, above the CDPH primary MCL of 150 µg/L.

The likeliest source of toluene is the electrical tape used to secure the power cable to the submersible pump.

Table 2. Summary of Laboratory Analytical Water Quality Data for CDA I-20

Constituent	Units	Zone 1 280 - 300 (ft bgs)	Zone 2 195 - 215 (ft bgs)	Zone 3 115 - 135 (ft bgs)	Drinking Water Standards -
Alkalinity	mg/L	120	190	240	n/a
Aluminum	µg/L	250	130	120	200[a] / 1,000[b]
Arsenic	µg/L	3.0	ND (< 2.0)	ND (< 2.0)	10[a]
Bicarbonate (as $CaCO_3$)	mg/L	150	230	300	n/a
Boron	µg/L	ND (< 100)	ND (< 100)	ND (< 100)	1000[c]
Calcium	mg/L	26	130	260	n/a
Carbonate (as $CaCO_3$)	mg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	n/a
Chloride	mg/L	6.4	88	230	250[a] / 500[b]
Chromium (Hexavalent)	µg/L	4.4	ND (< 1.0)	ND (< 1.0)	50[a,d]
Chromium (Total)	µg/L	ND (< 10)	ND (< 10)	ND (< 10)	50[a]
Color	Color Units	5.0	10.0	ND (< 3.0)	15[b]
Fluoride	mg/L	0.36	0.17	0.20	2[a]
Iron	µg/L	290	310	220	300[b]
Manganese	µg/L	27	30	57	50[b]
Nitrate (as NO_3)	mg/L	7.3	140	380	45[a]
Odor	TON	1	1	1	3[b]
Perchlorate	µg/L	ND (< 4.0)	ND (< 4.0)	ND (< 4.0)	6[a]
pH	pH Units	7.9	7.3	7.3	6.5 to 8.5[e]
Sodium	mg/L	38	82	59	n/a
Sulfate (as SO_4)	mg/L	20	110	98	250[a] / 500[b]
Surfactants (MBAS)	mg/L	ND (< 0.1)	0.10	0.18	0.5[b]
Total Dissolved Solids (TDS)	mg/L	180	750	1400	500[a] / 1,000[b]
Total Hardness	mg/L	75	390	860	n/a
Total Silica	mg/L	24	29	34	n/a
Turbidity	NTU	6.0	4.6	2.7	5[b]
Vanadium	µg/L	13	6.0	6.4	50[c]
1,2,3-Trichloropropane	µg/L	ND (< 0.0050)	ND (< 0.0050)	ND (< 0.0050)	0.005[c]

Table 2. Summary of Laboratory Analytical Water Quality Data for CDA I-20 *(Continued)*

Constituent	Units	Zone 1	Zone 2	Zone 3	Drinking Water Standards
		280 - 300 (ft bgs)	195 - 215 (ft bgs)	115 - 135 (ft bgs)	-
Volatile Organic Compounds *except as noted below* (EPA Method 524.2)	µg/L	ND	ND	ND	*Varies by chemical*
Trichlorofluoromethane (FREON 11)	µg/L	ND (< 50)	ND (< 50)	ND (< 50)	150[a]
1,1-Dichloroethylene (1,1-DCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	6[a]
trans-1,2-Dichloroethylene (t-1,2-DCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	10a
1,1-Dichloroethane (1,1-DCA)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5[a]
cis-1,2-Dichloroethylene (c-1,2-DCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	6[a]
Chloroform (Trichloromethane)	µg/L	ND (< 10)	ND (< 10)	ND (< 10)	80[a,f]
1,2-Dichloroethane (1,2-DCA)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	0.5[a]
Trichloroethylene (TCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5[a]
Tetrachloroethylene (PCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5[a]
Toluene	µg/L	**450**	6.1	54	150[a]
1,1,2-Trichloroethane (1,1,2-TCA)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5[a]
Total Trihalomethanes (TTHM)	µg/L	ND (< 10)	ND (< 10)	ND (< 10)	80[a]

a	California Department of Public Health (CDPH) Primary Maximum Contaminant Level (MCL)
b	CDPH Secondary MCL
c	CDPH Notification Level for unregulated chemicals
d	Hexavalent chromium is regulated by CDPH under the MCL for Total Chromium (50 µg/L)
e	USEPA Secondary Standard for pH
f	Chloroform is regulated under the TTHM MCL of 80 µg/L
n/a	Not applicable – no current MCL
ND (<...)	Not detected above the laboratory detection limit (shown in parentheses)
BOLD	Exceeds regulatory limits (MCL or Notification Levels)

Proposed Well Design

Based on our evaluation of the water quality data, geophysical borehole logs, lithologic samples, and sieve analyses, the following casing and screen schedule is proposed (Table 3). Figure 1 shows the propsed casing and screen schedule for Well I-20 with associated borehole diameters and depths.

Table 3. Proposed Casing and Screen Schedule CDA Well I-20

Interval (ft bgs)	Borehole Diameter (inch)	Casing Diameter* (inch)	Wall Thickness (inch)	Screen Slot Size (inch)	Material Type
+1 - 50	48	36-inch O.D.	⅜-inch	-	Conductor Casing (ASTM Grade B Mild Steel)
+2 - 85 (2 each)	Annulus	3-inch I.D.	Sch. 40	-	Gravel Feed Tubes x 2 (ASTM A53 Grade B Mild Steel)
+2 - 32	Annulus	2-inch I.D.	Sch. 40	-	Sounding Tube (ASTM A778 304L Stainless Steel) *Connection to well casing recommended 30-32 ft bgs*
+2 - 72	Annulus	4-inch I.D.	Sch. 40	-	Camera Tube (ASTM A778 304L Stainless Steel) *Connection to well casing recommended 64-72 ft bgs*
0 - 75	30	-	-	-	Annular Sand-Cement Seal
75 - 80	30	-	-	-	Fine Sand Layer
80 - 545	30 (50 - 95 ft bgs) 26 (95 - 545 ft bgs)	-	-	-	Modified 8 x 20 Custom Blend Gravel Pack
+2 - 120	30 (50 - 95 ft bgs) 26 (95 - 545 ft bgs)	16-inch I.D.	0.3125-inch	-	Blank Casing (ASTM A778 304L Stainless Steel)
120 - 225	26	16-inch I.D.	0. 3125-inch	0.060	Ful-Flo Louvered Screen (ASTM A778 304L Stainless Steel)
225 - 280	26	16-inch I.D.	0.3125-inch	-	Blank Casing (ASTM A778 304L Stainless Steel)
280 - 325	26	16-inch I.D.	0. 3125-inch	0.060	Ful-Flo Louvered Screen (ASTM A778 304L Stainless Steel)
325 - 355	26	16-inch I.D.	0.3125-inch	-	Blank Casing (ASTM A778 304L Stainless Steel)
355 - 505	26	16-inch I.D.	0. 3125-inch	0.060	Ful-Flo Louvered Screen (ASTM A778 304L Stainless Steel)
505 - 525	26	16-inch I.D.	0.3125-inch	-	Blank Casing with End Plate (ASTM A778 304L Stainless Steel)
525 - 545	26	-	-	-	Gravel-Filled Borehole Below Casing and End Plate

** To minimize the time required for welding, casing joints should measure 40-ft in length except where unpractical.*

This well design is proposed to maximize production from the Upper aquifer system; with the option to later produce from the Lower aquifer system, should monitoring results indicate that the risk of land subsidence is negligible.

The formation includes a significant portion of silt and fine sand, more so than reported in the other wells in the area. In order to maximize production, a coarser gravel pack and slot size were selected to help prevent potential clogging by the formation materials and to maximize well efficiency. Given the abundance of silt and fine sand in the formation, depending on how the well is operated, there is a slight chance that the well will produce very fine sand and/or water with color until it is fully developed.

To help guard against potential sand production, a longer initial development period is recommended. It is common for wells of this type to continue to naturally develop after the permanent pump is installed. Two other measures to consider to help mitigate against potential sand production would be to (1) attach a suction pipe to the bottom of the pump intake to reduce turbulent forces and focus production from the coarse formation interval below about 200 ft; and (2) install a variable frequency drive (VFD) so that the pumping rate can increase gradually to further reduce the turbulent forces acting on the formation materials.

Reaming Pilot Borehole and Caliper Log

The 17 ½-inch pilot borehole shall be enlarged to 30 inches diameter from 50 to 95 ft bgs and to 26 inches diameter from 95 to 545 ft bgs. This design provides 20 ft of additional borehole to allow for the settling of a small amount of fill during casing and screen installation to permit the well string to be properly landed.

After reaming, a caliper log shall be run in the enlarged borehole no more than six hours prior to the installation of the casing and screen.

Installation of Sounding Tube, Gravel Feed Tube and Camera Tube

During casing and screen installation, a 2-inch diameter Schedule 40 304L stainless steel sounding tube shall be installed from approximately 2 ft above ground surface, connecting to the 16-inch inside diameter (I.D.) blank casing at a depth of 30 to 32 ft bgs. Likewise, a 4-inch diameter Schedule 40 304L stainless steel camera tube shall be installed from approximately 2 ft above ground surface, connecting to the 16-inch I.D. blank casing at a depth 64 to 72 ft bgs. The transitions from the 16-inch I.D. casing to the sounding tube box and camera tube port connections shall be smooth, without rough edges or burrs.

Two 3-inch diameter Schedule 40 mild steel gravel feed pipes shall each be installed from approximately 2 ft above ground surface to a depth of 85 ft bgs. The orientation of the well appurtenances at the surface shall be as shown in Figure 2.

Gravel Pack and Slot Size Selection

Mechanical grading sieve analyses were performed on fifteen formation samples from between 95 and 325 ft bgs. Figure 3 shows the finest formation samples sieved. Based on the results of the sieve analyses, the proposed gravel pack is a modified 8 x 20 custom blend, as shown below in Table 4.

The proposed slot size for the screened intervals is 0.060 inches, which will allow approximately 18% of the gravel pack material to pass (Figure 3 and Table 5).

The gravel shall be supplied by Silica Resources, Inc. (SRI). A representative sieve analysis test report for the proposed gravel pack from supplier shall be submitted to and approved for use by GSi/water prior to delivery of the gravel pack material to the site. After, the gravel pack material is delivered to the site, GSi/water will sample and sieve a representative amount from each load to verify the gradation. All gravel pack material shall be delivered to the site in one-cubic-yard super sacks at least 24 hours prior to the installation of the casing and screen.

Table 4. Proposed Gravel Pack Design CDA Well I-20
Modified 8 x 20 Custom Blend

U.S. Standard Sieve No.	Sieve Opening		Cumulative Percent Passing
	(in)	(mm)	
6	0.1320	3.35	100
8	0.0930	2.37	92
10	0.079	2.01	77
12	0.0660	1.68	22
16	0.0470	1.20	8.5
20	0.0330	0.84	3
30	0.0230	0.59	1.6

Table 5. Gravel Pack Design Parameters

Design Criteria	Depth (ft)	Formula D - filter pack d - Formation	Value	Recommended Value
Pack / Aquifer Ratio (Finest Zone)	220 - 225	D_{50}/d_{50}	8.64	*4 to 20*
Terzaghi Migration Factor (Finest Zone)	220 - 225	D_{15}/d_{85}	1.25	*less than 4*
Terzaghi Permeability Factor (Coarsest Zone)	300 - 305	D_{15}/d_{15}	23.11	*greater than 4*
Screen Slot (in)	-	-	0.060	-
Percent Filter Pack Passing Screen Slot	-	-	18	*15% to 25%*
Uniformity Co-efficient of Filter Pack	-	$C_u = D_{60}/D_{10}$	1.06	*less than 2.5*
Sorting Factor	220 - 225	$S_f = C_{uf}/C_{ua} = (D_{60}/D_{10})/(d_{60}/d_{10})$	0.34	-

Placement of Gravel Pack and Cement Seal

The gravel pack material shall be pumped through a tremie pipe from the bottom of the reamed borehole (at 545 ft bgs) to 80 ft bgs while adding one to two gallons of 12.5% liquid sodium hypochlorite per cubic yard of gravel pack material, as described in the technical specifications. At no time during emplacement of the gravel pack shall the bottom end of the tremie pipe be more than 60 ft above the top of the estimated level of the gravel pack. The depth to the top of the gravel pack shall be confirmed with a depth sounder. After the gravel pack reaches 80 ft bgs, a 5-ft fine sand layer shall be placed above the gravel pack from 80 to 75 ft bgs.

Above the fine sand interval, the annular space shall be filled with a 10.3-sack sand-cement grout from 75 ft bgs to the ground surface. The cement mixture shall be pumped through a tremie pipe, which shall remain submerged in the cement slurry at all times during the pumping of the cement. The Contractor is responsible for proper grouting technique and shall be familiar with the characteristics of the casing resistance to collapse.

To verify the cement set-up time, samples of the cement slurry will be collected from each truckload as it is being pumped. The samples shall be placed in a bucket of water located in the shade or suspended in the fluid reservoir filled with water. Samples shall be monitored to confirm the set-up time.

Placement of Inner Cement Seal

After development pumping and production testing, the inside of the well casing shall be back-filled with clean, disinfected coarse gravel to a depth of about 265 ft. On top of the gravel fill, a 2-ft thick cement seal shall be placed. The purpose of this seal is to limit production to the Upper Aquifer System. After the seal has set-up, additional production testing shall be done to characterize yield and water quality from the uppermost screened interval.

Potential Yield (gpm)

Based on analysis of lithologic samples, geophysical logging and isolated aquifer zone testing, the anticipated well screen interval is interpreted to intercept both the upper and lower aquifer systems. Results from isolated aquifer zone testing of Zones 2 and 3 are considered to be generally representative of the upper system, while results from Zone 1 are considered generally representative for the lower interval.

Estimates of aquifer transmissivity (T) were calculated based on the pumping characteristics observed during each test. Two approaches were used, assuming a zone efficiency of 50%. Details for each approach are shown in Attachment A. Hydraulic conductivity (K) was calculated based on the thickness of the permeable intervals. The results were averaged to give the values shown in Table 6 below.

Applying the appropriate K values, the Theim equation was used to estimate yield for Well I-20 from the Upper aquifer system and also from the Upper and Lower systems combined. The calculations assumed a drawdown of 45 ft, 70% well efficiency, well radius of 1 ft and a radial distance for the cone of depression of 1,000 ft. Table 6 summarizes the results and includes production estimates for the completed well.

Table 6. Hydraulic Parameters and Estimated Production

Aquifer System	Aquifer Depth Interval	Thickness of Permeable Formation	Transmissivity	Hydraulic Conductivity	Aquifer Flow Contribution Assuming Drawdown of 45 ft
	ft bgs	ft	gpd/ft	gpd/ft^2	gpm
Upper	105 - 225	45	14,875	330	295
Lower	275 - 320	20	1,600	80	32
	355 – 505*	130	11,700*	90*	232*
Estimated Well Production Assuming Drawdown of 45 ft					**559**

** Production estimated. This depth interval was not tested for yield.*

For the design criteria outlined in this letter, the estimated production rate for I-20 would be about 295 gpm, with the seal in place limiting production to the Upper aquifer system. If, in the future, it is permissible to also produce from the Lower aquifer system, the estimated production for I-20 would be about 560 gpm. Due to the assumptions required to complete these calculations, actual production rates may differ.

If you have any questions, we are happy to respond.

Sincerely,
GSi/water

J.H. Birman Ph.D., PG, CHG
Principal Geologist

Ronald Sorensen PG, CHG
Senior Geologist

Rachel E. Ridgway, M.S., GIT
Project Geologist

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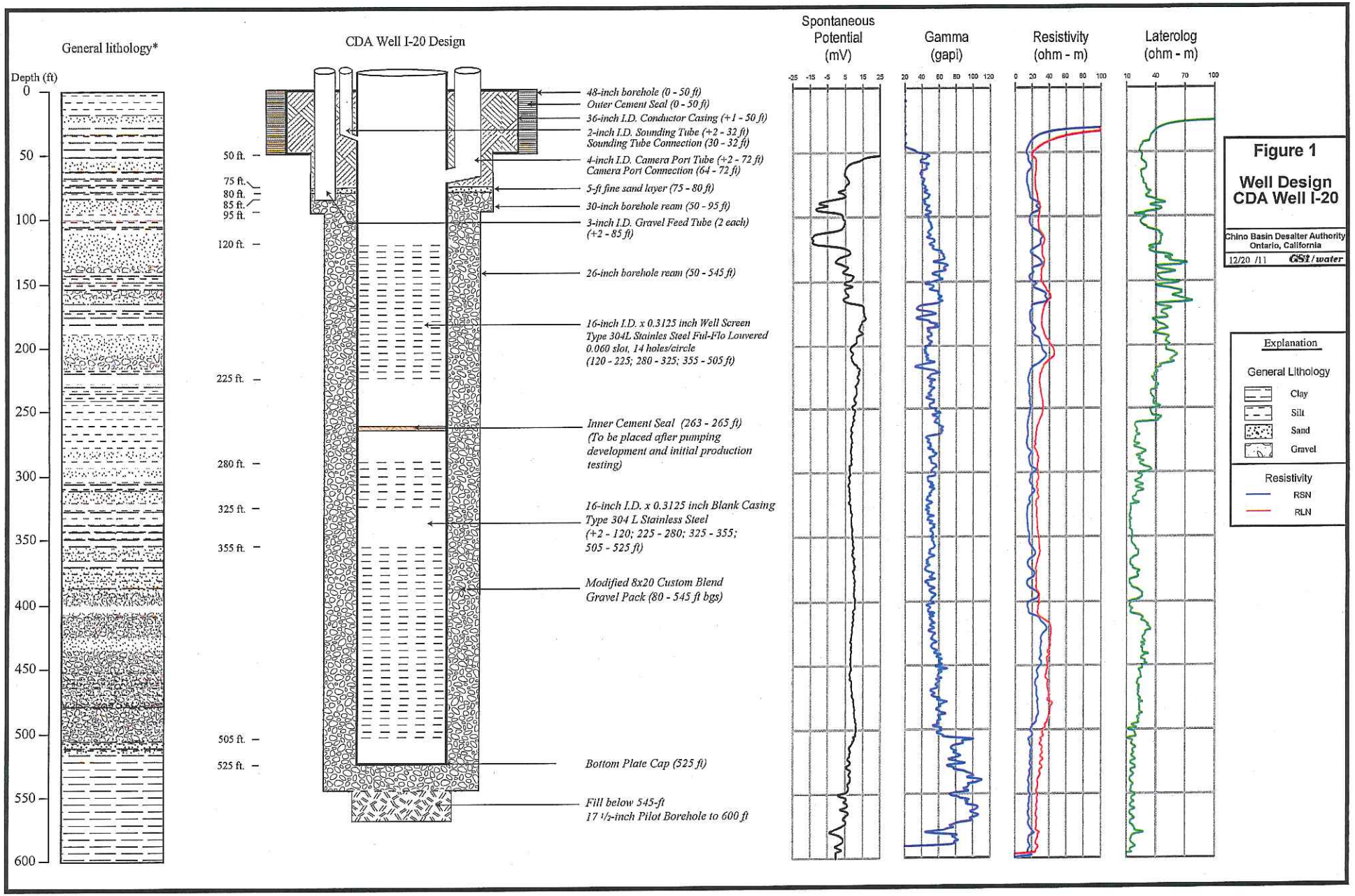
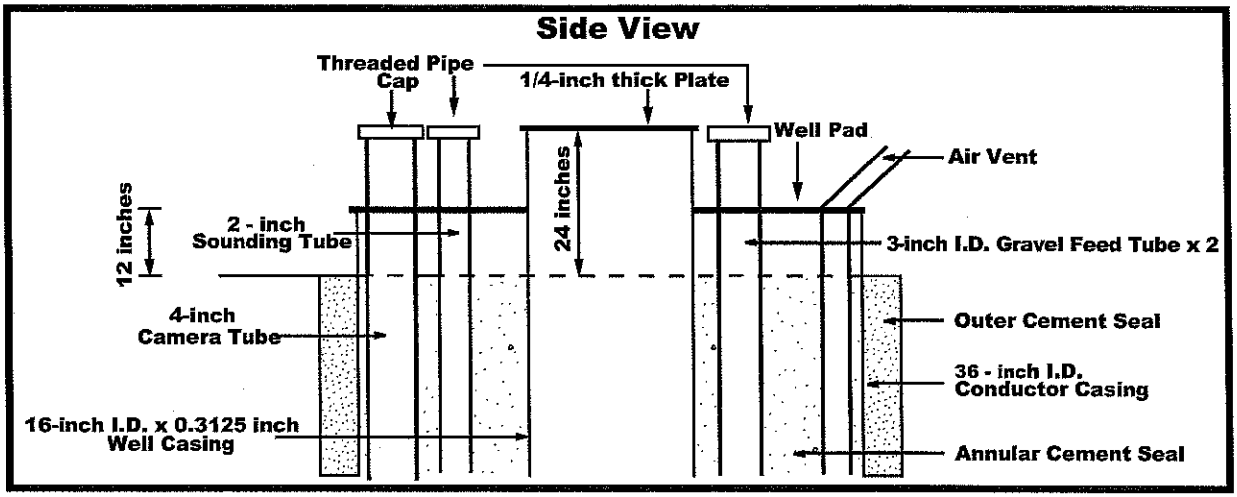
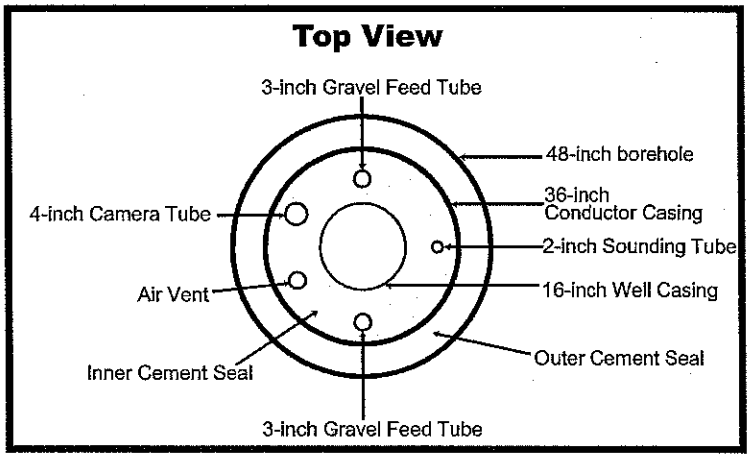

General lithology*
Depth (ft)
0
50
100
150
200
250
300
350
400
450
500
550
600
CDA Well I-20 Design
50 ft.
75 ft.
80 ft.
85 ft.
95 ft.
120 ft.
225 ft.
280 ft.
325 ft.
355 ft.
505 ft.
525 ft.
48-inch borehole (0 - 50 ft)
Outer Cement Seal (0 - 50 ft)
36-inch I.D. Conductor Casing (+1 - 50 ft)
2-inch I.D. Sounding Tube (+2 - 32 ft)
Sounding Tube Connection (30 - 32 ft)
4-inch I.D. Camera Port Tube (+2 - 72 ft)
Camera Port Connection (64 - 72 ft)
5-ft fine sand layer (75 - 80 ft)
30-inch borehole ream (50 - 95 ft)
3-inch I.D. Gravel Feed Tube (2 each)
(+2 - 85 ft)
26-inch borehole ream (50 - 545 ft)
16-inch I.D. x 0.3125 inch Well Screen
Type 304L Stainles Steel Ful-Flo Louvered
0.060 slot, 14 holes/circle
(120 - 225; 280 - 325; 355 - 505 ft)
Inner Cement Seal (263 - 265 ft)
(To be placed after pumping
development and initial production
testing)
16-inch I.D. x 0.3125 inch Blank Casing
Type 304 L Stainless Steel
(+2 - 120; 225 - 280; 325 - 355;
505 - 525 ft)
Modified 8x20 Custom Blend
Gravel Pack (80 - 545 ft bgs)
Bottom Plate Cap (525 ft)
Fill below 545-ft
17 1/2-inch Pilot Borehole to 600 ft
Spontaneous Potential (mV)
-25 -15 -5 5 15 25
Gamma (gapi)
20 40 60 80 100 120
Resistivity (ohm - m)
0 20 40 60 80 100
Laterolog (ohm - m)
10 40 70 100
Figure 1
Well Design
CDA Well I-20
Chino Basin Desalter Authority
Ontario, California
12/20 /11
GSI/water
Explanation
General Lithology
Clay
Silt
Sand
Gravel
Resistivity
RSN
RLN

P153





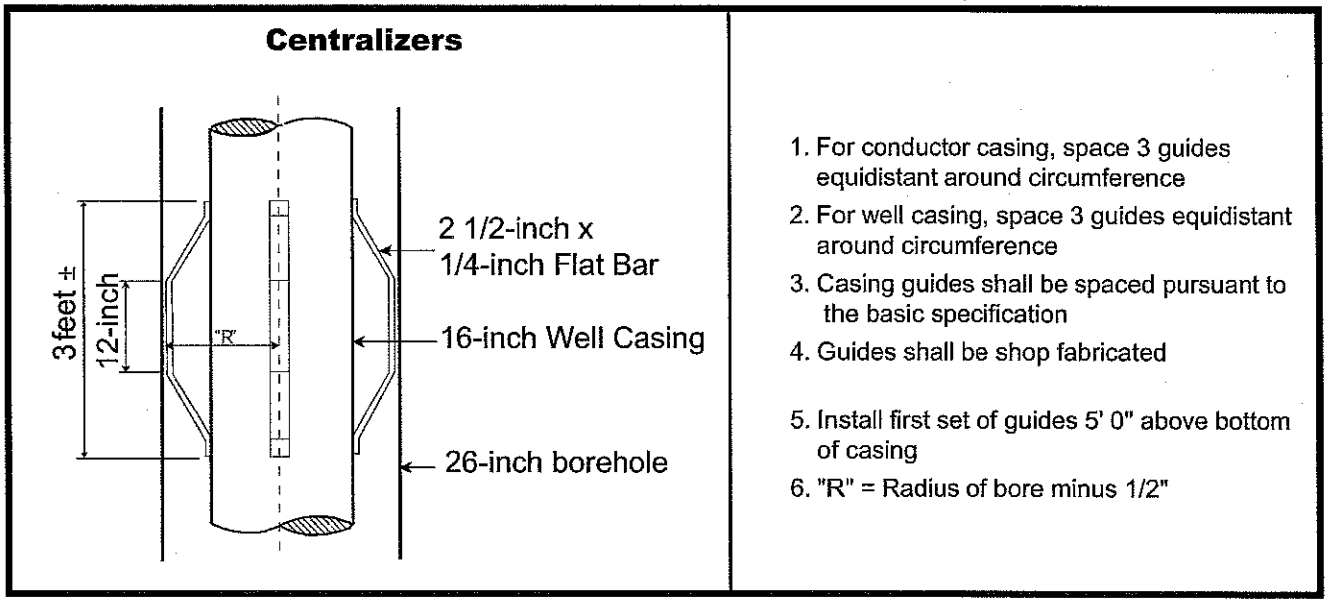
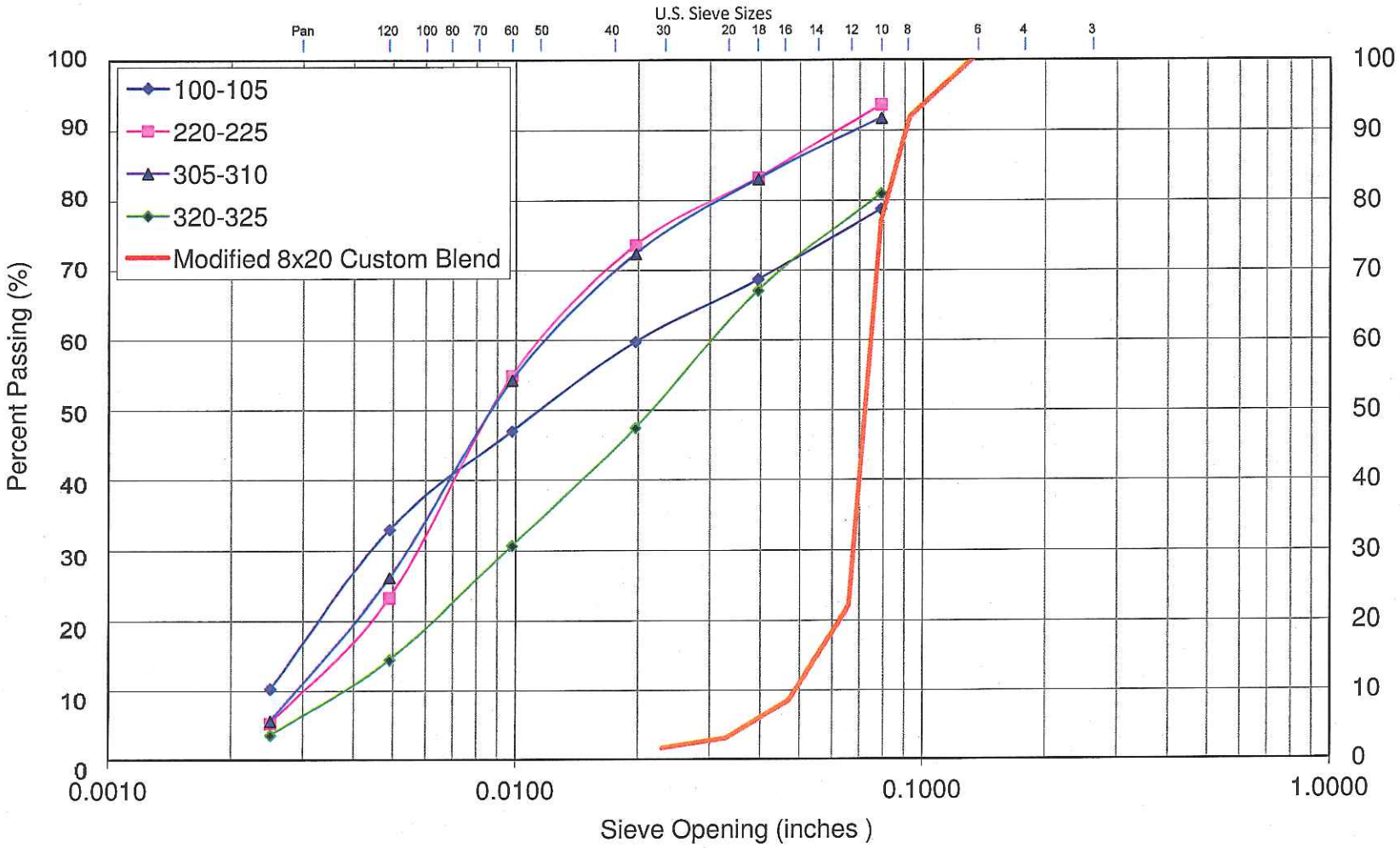


Figure 2
Welll Appurtenances and Centralizers
CDA WELL I-20

Chino Basin Desalter Authority
Ontario, California

12/20/2011 GSi/water

Figure 3. Mechanical Grading Analysis CDA Well I-20



Theis curve-matching approach

$$T = \frac{Q}{4\pi(h_0 - h)} W(u)$$

Where T is aquifer transmissivity in gallons per day per foot (gpd/ft); Q is the pumping rate in gallons per day (gpd); $(h_0 - h)$ is the water level drawdown; and $W(u)$ is the well function, which was selected by matching graphs of the time-drawdown data with the Theis type curve. This method assumes radial flow in an ideal confined aquifer. Because the upper aquifer system is characterized to unconfined to semi-confined, it is still appropriate to apply this method for an approximation of transmissivity.

Theis iterative approach using specific capacity data

$$T = \frac{Q}{(h_0 - h)} \frac{2.3}{4\pi} \log \frac{2.25\,Tt}{r^2 S}$$

Where T is aquifer transmissivity in gpd/ft; $Q\,/\,(h_o - h)$ is the specific capacity for the zone; t is time in days; r is the radius of the pumping well in feet; and S is storativity (dimesionless). For this approach, an initial value of T, close to the specific capacity was selected for the first iteration. Subsequent calculations helped to refine the value of T. Storativity was assumed to be respectively 0.1 and 0.001 for the upper and lower aquifer systems. For each zone, the following assumptions also applied: t =1 day; r = 1 ft.

The results from each approach are summarized in the table below. Hydraulic conductivity (K) was estimated by dividing T by the thickness of the permeable unit.

Table A1. Estimated Aquifer Parameters Calculated by Theis Methods

	Parameter	Zone 1	Zone 2	Zone 3
Curve-matching solutions	T (gpd/ft)	1,500	12,500	21,400
	K (gpd/ft2)	75	278	476

	Parameter	Zone 1	Zone 2	Zone 3
Iterative solutions	T (gpd/ft)	1,700	9,600	16,000
	K (gpd/ft2)	85	213	356

Thiem Production Estimates

$$Q = \frac{Kb(h - h_0)}{528\left(\log\frac{r_2}{r_1}\right)}$$

Where Q is yield in gpm; b is the thickness of the permeable unit; $(h - h_0)$ is the water level drawdown; r_1 is the effective well radius and r_2 is the radial distance of the cone of depression.

Reference: Fetter, C.W., *Applied Hydrogeology, 4th Ed.*, New Jersey: Prentice Hall, 2001.

CHINO BASIN WATERMASTER

IV. REPORTS/UPDATES

B. CEO/STAFF REPORT

4. Chino Basin Watermaster Excess Reserves

Excess Reserve Calculation - Refund To Parties

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FOR THE PDF TITLED:

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