20

21

22

23

24

25

26

27

28



SCOTT S. SLATER (State Bar No. 117317) MICHAEL T. FIFE (State Bar No. 203025) HATCH & PARENT, A LAW CORPORATION 21 East Carrillo Street Santa Barbara, CA 93101 Telephone No: (805) 963-7000 Facsimile No: (805) 965-4333

COUNTY OF SAN SET VALUE OF SAN SET 2 2006

BY CHUND CAPPER DEPUTY

Attorneys For CHINO BASIN WATERMASTER

# SUPERIOR COURT OF THE STATE OF CALIFORNIA FOR THE COUNTY OF SAN BERNARDINO

CHINO BASIN MUNICIPAL DISTRICT

Plaintiff,

VS.

CITY OF CHINO, ET AL.

Defendant.

Case No. RCV 51010

[Assigned for All Purposes to the Honorable J. MICHAEL GUNN]

MOTION TO RECEIVE AND FILE TRANSMITTALS

Hearing Date: TBD TBD

Department: R8

## I. TRANSMITTAL OF STATUS REPORT 2006-01

On February 9, 2006, the Court Ordered the re-appointment of the nine-member Watermaster Board. As part of that Order, the Court directed Watermaster to continue filing status reports regarding implementation of the Optimum Basin Management Program ("OBMP"). Attached to this transmittal as Exhibit "A" is Watermaster's first status report under this new reporting period. This status report covers the period January 1, 2006 to June 30, 2006.

Watermaster respectfully requests that the Court receive and file Status Report 2006-01.

## II. TRANSMITTAL OF 28TH ANNUAL REPORT

Attached to this transmittal as Exhibit "B" is Watermaster's 28th Annual Report.

Watermaster respectfully requests that the Court receive and file this Annual Report.

# HATCH AND PARENT 21 East Carrillo Street Santa Barbara, CA 93101

### III. MISCELLANEOUS RECEIVE AND FILE MOTIONS

#### A. STATUS REPORTS

The Court has not yet had the opportunity to receive and file OBMP Status Reports 12, 13 and 14 which were filed with the Court on August 8, 2005. When the Court receives and files Status Report 2006-01, Watermaster respectfully requests that it also formally receive and file OBMP Status Reports 12, 13, and 14.

#### B. ANNUAL REPORTS

Watermaster filed the 26th Annual Report on November 30, 2004 and the 27th Annual Report on August 8, 2005, but the Court has not yet had the opportunity to formally receive and file these Annual Reports. When the Court receives and files the 28th Annual Report, Watermaster respectfully requests that it also formally receive and file the 26th and 27th Annual Reports as well.

Dated: September 14, 2006

HATCH & PARENT

Scott S. Slater
Michael T. Fife

Attorneys for Chino Basin Watermaster

## CHINO BASIN WATERMASTER Case No. RCV 51010 Chino Basin Municipal Water District v. The City of Chino

#### PROOF OF SERVICE

#### I declare that:

I am employed in the County of San Bernardino, California. I am over the age of 18 years and not a party to the within action. My business address is Chino Basin Watermaster, 9641 San Bernardino Road, Rancho Cucamonga, California 91730; telephone (909) 484-3888.

On September 27, 2006 I served the following:

#### MOTION TO RECEIVE AND FILE TRANSMITTALS

- TRANSMITTAL OF STATUS REPORT 2006-01
   TRANSMITTAL OF 28<sup>TH</sup> ANNUAL REPORT

BY MAIL: in said cause, by placing a true copy thereof enclosed with postage thereon fully prepaid, for delivery by United States Postal Service mail at Rancho Cucamonga, California, addresses as follows:  See attached service list: Mailing List 1
BY PERSONAL SERVICE: I caused such envelope to be delivered by hand to the addressee.
BY FACSIMILE: I transmitted said document by fax transmission from (909) 484-3890 to the fax number(s) indicated. The transmission was reported as complete on the transmission report, which was properly issued by the transmitting fax machine.
BY ELECTRONIC MAIL: I transmitted notice of availability of electronic documents by electronic transmission to the email address indicated. The transmission was reported as complete on the transmission report, which was properly issued by the transmitting electronic mail device.

I declare under penalty of perjury under the laws of the State of California that the above is true and correct.

Executed on September 27, 2006 in Rancho Cucamonga, California.

Chino Basin Watermaster

RICHARD ANDERSON 1365 W. FOOTHILL BLVD SUITE 1 UPLAND, CA 91786 RODNEY BAKER
COUNSEL FOR EGGWEST &
JOHNSON
PO BOX 438
COULTERVILLE, CA 95311-0438

WILLIAM P. CURLEY PO BOX 1059 BREA, CA 92882-1059

ROBERT NEUFELD 14111 SAN GABRIEL CT RANCHO CUCAMONGA, CA 91739 LEAGUE OF CA HOMEOWNERS ATTN: KEN WILLIS 99 "C" STREET, SUITE 209 UPLAND, CA 91786 PAUL HAMRICK
JURUPA COMMUNITY SVCS DIST
11201 HARREL ST
MIRA LOMA, CA 91752

CARL HAUGE SWRCB PO BOX 942836 SACRAMENTO, CA 94236-0001 SUSAN TRAGER LAW OFFICES OF SUSAN M. TRAGER 19712 MACARTHUR BLVD SUITE 120 IRVINE, CA 92612

CARLOS LOZANO STATE OF CA YTS 15180 S EUCLID CHINO, CA 91710

DAVID B. COSGROVE RUTAN & TUCKER 611 ANTON BLVD SUITE 1400 COSTA MESA, CA 92626

PAUL HOFER 11248 S TURNER AVE ONTARIO, CA 91761 JOE DELGADO BOYS REPUBLIC 3493 GRAND AVENUE CHINO HILLS, CA 91709

GLEN DURRINGTON 5512 FRANCIS ST CHINO, CA 91710 DICK DYKSTRA 10129 SCHAEFER ONTARIO, CA 91761-7973 RALPH FRANK 749 LAKEFIELD RD # B WESTLAKE VILLAGE, CA 91361

CARL FREEMAN L.D. KING 2151 CONVENTION CENTRE WAY ONTARIO, CA 91764 BOB BEST NAT'L RESOURCE CONS SVCS 25864 BUSINESS CENTER DR K REDLANDS, CA 92374 JIM GALLAGHER SOUTHERN CALIFORNIA WATER CO 2143 CONVENTION CENTER WAY SUITE 110 ONTARIO, CA 91764

DON GALLEANO 4220 WINEVILLE RD MIRA LOMA, CA 91752-1412 PETER HETTINGA 14244 ANON CT CHINO, CA 91710 PETE HALL PO BOX 519 TWIN PEAKS, CA 92391

MANUEL CARRILLO CONSULTANT TO SENATOR SOTO 822 N EUCLID AVE, SUITE A ONTARIO, CA 91762 KRONICK ET AL KRONICK MOSKOVITZ TIEDEMANN & GIRARD 400 CAPITOL MALL, 27<sup>TH</sup> FLOOR SACRAMENTO, CA 95814-4417

RONALD LA BRUCHERIE 12953 S BAKER AVE ONTARIO,CA 91761-7903

JOEL KUPERBERG OCWD GENERAL COUNSEL RUTAN & TUCKER, LLP 611 ANTON BLVD., 14<sup>TH</sup> FLOOR COSTA MESA, CA 92626-1931 ANNESLEY IGNATIUS COUNTY OF SAN BERNARDINO FCD 825 E 3<sup>RD</sup> ST SAN BERNARDINO, CA 92415-0835

W. C. "BILL" KRUGER CITY OF CHINO HILLS 2001 GRAND AVE CHINO HILLS, CA 91709

STEVE ARBELBIDE 417 PONDEROSA TR CALIMESA, CA 92320 SANDRA ROSE PO BOX 337 CHINO, CA 91708 JOHN ANDERSON CBWM BOARD MEMBER 12475 CEDAR AVENUE CHINO, CA 91710 SYP VANDER DUSSEN 14380 EUCLID CHINO, CA 91710

ALAN MARKS COUNSEL – COUNTY OF SAN BERNARDINO 157 W 5<sup>TH</sup> STREET SAN BERNARDINO, CA 92415

GEOFFREY VANDEN HEUVEL CBWM BOARD MEMBER 7551 KIMBALL AVE CHINO, CA 91710

ROBERT BOWCOCK INTEGRATED RESOURCES MGMNT 405 N. INDIAN HILL BLVD CLAREMONT, CA 91711-4724

DAVID SCRIVEN KRIEGER & STEWART ENGINEERING 3602 UNIVERSITY AVE RIVERSIDE, CA 92501

SWRCB PO BOX 2000 SACRAMENTO, CA 95809-2000 SYBRAND VANDER DUSSEN 10573 EDISON AVE ONTARIO, CA 91761

R.E. THRASH III PRAXAIR 5705 AIRPORT DR ONTARIO, CA 91761

BRIAN GEYE DIRECTOR OF TRACK ADMIN CALIFORNIA SPEEDWAY PO BOX 9300 FONTANA, CA 92334-9300

DAVID RINGEL MONTGOMERY WATSON PO BOX 7009 PASADENA, CA 91109-7009

SENATOR NELL SOTO STATE CAPITOL ROOM NO 4066 SACRAMENTO, CA 95814

CRAIG STEWART GEOMATRIX CONSULTANTS INC 510 SUPERIOR AVE, SUITE 200 NEWPORT BEACH, CA 92663 JOHN THORNTON
PSOMAS AND ASSOCIATES
3187 RED HILL AVE, SUITE 250
COSTA MESA. CA 92626

BOB KUHN 669 HUNTERS TRAIL GLENDORA, CA 91740

MICHAEL THIES SPACE CENTER MIRA LOMA INC 3401 S ETIWANDA AVE, BLDG 503 MIRA LOMA, CA 91752-1126

AL LOPEZ CBWM BOARD MEMBER PO BOX 1773 CORONA, CA 92878

JUSTIN BROKAW MARYGOLD MUTUAL WATER CO 9725 ALDER ST BLOOMINGTON, CA 92316-1637

#### Members:

Manuel Carrillo
Marilyn Levin
Mark Kinsey
Mark Ward
Mark Wildermuth
Martha Davis
Martin Rauch
Martin Zvirbulis
Maynard Lenhert
Michael B. Malpezzi

Michael Fife Michelle Staples Mike Del Santo Mike Maestas Mike McGraw Mike Thies

Mohamed El-Amamy Nathan deBoom Pam Wilson Paul Deutsch Paul Hamrick Paul Hofer Paula Molter Pete Hall Phil Krause Phil Rosentrater Rachel R Robledo Richard Atwater

Rick Hansen Rick Rees Rite Kurth Robert DeLoach Robert Dougherty Robert Neufeld Robert Neufeld Robert Rauch Robert W Bowcock

Robert W. Nicholson Roger Florio Ron Craia

Ron Small Rosemary Hoerning

Sam Fuller Sandra S. Rose Sandy Lopez Scott Burton Sharon Joyce Steve Arbelbide Steve Kennedy Steven Lee Tej Pahwa Terry Catlin Timothy Ryan Tom Bunn Tom Love Tom McPeters Tracy Tracy Virginia Grebbien

Wayne Davison

William J. Brunick

WM Admin Staff

Wendy Leslie

Manuel.Carrillo@SEN.CA.GOV marilyn.levin@doj.ca.gov mkinsey@mvwd.org

mark\_ward@ameron-intl.com

mwildermuth@wildermuthenvironmental.com

mwidermutn@widermutnenviro
mdavis@ieua.org
martin@rauchcc.com
martinz@cvwdwater.com
directorlenhert@mvwd.org
MMalpezzi@reliant.com
Mfife@hatchparent.com
mstaples@jdplaw.com
mdelsant@prologis.com
mmaestas@chinohills.org
mjmcgraw@FontanaWater.com
mthies@spacecenterinc.com
melamamy@ci.ontario.ca.us.
n8deboom@gmail.com
pwilson@hatchparent.com
pdeutch@geomatrix.com
vhampton@jcsd.us

vhampton@jcsd.us farmwatchtoo@aol.com PMolter@CBWM.ORG richard.okeefe@corr.ca.gov pkrause@parks.sbcounty.gov prosentrater@wmwd.com RRobledo@HatchParent.com Atwater@ieua.org

rhansen@tvmwd.com
rrees@geomatrix.com
ritak@cvwdwater.com
robertd@cvwdwater.com
RED@covcrowe.com
N78098@aol.com
robertn@cvwdwater.com
robert.rauchcc@verizon.net
bbowcock@irmwater.com

rwnicholson@sgvwater.com roger.florio@ge.com RonC@rbf.com ron.small@dgs.ca.gov rhoerning@ci.upland.ca.us samf@sbvmwd.com ybarose@verizon.net slopez@ci.ontario.ca.us sburton@ci.ontario.ca.us SJoyce@executive.corr.ca.gov sarbelbide@californiasteel.com

skennedy@bbmblaw.com slee@rhlaw.com tpahwa@dtsc.ca.gov tlcatlin@verizon.net

tjryan@sgvwater.com TomBunn@Lagerlof.com

TLove@ieua.org
THMcP@aol.com
ttracy@mvwd.org
vgrebbien@ocwd.com
wayne.davison2@cdcr.ca.gov

wleslie@jcsd.us

bbrunick@bbmblaw.com

Jim Hill Jim Markman Jim Taylor

Jimmy Gutierrez (jimmy@city-attorney.com

Joe Graziano Joe P LeClaire Joe Scalmanini Joel Moskowitz John Anderson John Huitsing John Rossi John Schatz John Vega

Judy Schurr Julie Saba Kathy Kunysz Kathy Tiegs Ken Jeske Ken Kules Kenneth Willis Kevin Sage Kimberly Arce Kyle Snay

Martin Zvirbulis

Robert W Bowcock

Lisa Hamilton Mark Hensley

jhill@cityotchino.org imarkman@rwglaw.com \_taylor@ci.pomona.ca.us

jimmy@city-attomey.com jgraz4077@aol.com

jleclaire@wildermuthenvironmental.com

jscal@lsce.com joel@MoskowitzHQ.com janderson@ieua.org jhuits@earthlink.net jrossi@wmwd.com jschatz13@cox.net johnv@cvwdwater.com jschurr@earthlink.net jsaba@ieua.org kkunysz@mwdh2o.com ktiegs@ieua.org kjeske@ci.ontario.ca.us

kkules@mwdh2o.com kwillis@homeowners.org Ksage@IRMwater.com KArce@HatchParent.com kylesnay@gswater.com Lisa.Hamilton@corporate.ge.com

mhensley@localgovlaw.com martinz@cvwdwater.com bbowcock@irmwater.com

#### Members:

Al Lopez Alice Shiozawa Andy Malone Anne Schneider April Woodruff Arnold Rodriguez Art Kidman Ashnok Dhingra

Barbara Swanson Bill Kruger Bill Rice Bill Thompson Bob Feenstra Bob Kuhn Bonnie Tazza Boyd Hill Brenda Fowler **Brian Hess Butch Araiza** 

Charles Moorrees Chris Diggs Chris Swanberg Cindy LaCamera Craig Stewart Curtis Aaron Dan Arrighi Dan Hostetler Dan McKinney Daniel Cozad Dave Argo Dave Crosley

David B. Anderson David D DeJesus

Dave Hill

David D DeJesus (davidcicgm@aol.com)

David Ringel Diane Sanchez Don Galleano Duffy Blau **Eldon Horst** Eric Garner Eunice Ulloa

Frank Brommenschenkel

Fred Fudacz Fred Lantz Gene Koopman Gerard Thibeault Gordon P. Treweek Grace Cabrera Henry Pepper James Jenkins James P. Morris Janine Wilson Jarlath Olev

Jean Cihigoyenetche Jeffrey L. Pierson Jennifer Novak Jerry King Jess Senecal Jill Willis

Jim Bryson

Jim Erickson (jeeinc@aol.com) Jim Erickson (Jim@city-attorney.com) lopezsixto@netzero.net afshioza@gswater.com

amalone@wildermuthenvironmental.com

ais@eslawfirm.com awoodruff@ieua.org iarodriguez@sarwc.com akidman@mkblawyers.com ashok.dhingra@m-e.aecom.com Barbara\_Swanson@yahoo.com citycouncil@chinohills.org brice@rb8.swrcb.ca.gov bthompson@ci.norco.ca.us feenstra@agconceptsinc.com

bgkuhn@aol.com bonniet@cvwdwater.com bhill@mkblawyers.com balee@fontanawater.com bhess@niagarawater.com butcharaiza@mindspring.com cmoorrees@sawaterco.com cdiggs@fontanawater.com chris.swanberg@corr.ca.gov clacamera@mwdh2o.com cstewart@geomatrix.com caaron@fontana.org darrighi@sgvwater.com dahostetler@csupomona.edu dmckinney@rhlaw.com dcozad@sawpa.org

argodg@bv.com

DCrosley@cityofchino.org

dhill@ieua.org

danders@water.ca.gov ddejesus@mwdh2o.com davidcicgm@aol.com david.ringel@mwhglobal.com dianes@water.ca.gov donald@galleanowinery.com Duffy954@aol.com ehorst@icsd.us

elgarner@bbkiaw.com ulloa.cbwcd@verizon.net frank.brommen@verizon.net ffudacz@nossaman.com flantz@ci.burbank.ca.us GTKoopman@aol.com gthibeault@rb8.swrcb.ca.gov GTreweek@CBWM.ORG grace\_cabrera@ci.pomona.ca.us henry\_pepper@ci.pomona.ca.us cnomgr@airports.sbcounty.gov

jpmorris@bbklaw.com Janine@CBWM.ORG iolev@mwdh2o.com Jean CGC@hotmail.com jpierson@unitexcorp.com jennifer.novak@doj.ca.gov jking@psomas.com JessSenecal@lagerlof.com jnwillis@bbklaw.com

jtbryson@fontanawater.com jeeinc@aol.com

Jim@city-attorney.com

# **EXHIBIT "A"**

## **Optimum Basin Management Program**

Status Report 2006-1: January to June 2006

Status Report 2006 - 1: Covers activities from January 1 through June 30, 2006.

#### Program Element 1: Develop and Implement a Comprehensive Monitoring Program

#### Groundwater Level Monitoring

Watermaster has three active groundwater level monitoring programs operating in the Chino Basin: 1) A semiannual basin-wide well monitoring program, 2) A key well monitoring program associated with the Chino I/II Desalter well fields and the Hydraulic Control Monitoring Program (HCMP), and 3) A piezometric monitoring program associated with land subsidence and ground fissuring in Management Zone 1 (MZ-1). The frequency of groundwater level monitoring varies with each program; depending on the needs of the data analyst. These groundwater level monitoring programs also rely on municipal producers, other government agencies, and private entities to supply their groundwater level measurements on a cooperative basis. Watermaster digitizes all these measurements and combines them into a relational database for general usage. During this period, Watermaster purchased and installed approximately 18 pressure transducers/data loggers at key wells; principally in the northern portions of Chino Basin where more detailed groundwater level data are needed.

#### Groundwater Quality Monitoring

No samples were collected from the key wells during the reporting period—these wells are anticipated to be sampled in July and August 2006. Watermaster continues a comprehensive data collection program whereby water quality data from other sources are routinely collected, QA/QC'd, and loaded into Watermaster's database.

Watermaster and the Inland Empire Utilities Agency (IEUA) are working closely with the Appropriative Pool members and their state-certified laboratories to obtain water quality data as an electronic data deliverable (EDD), which can be entered directly into Watermaster's relational database.

#### Groundwater-Production Monitoring

As of June 2006, Watermaster had insulled 349 new or rehabilitated meters at active agricultural wells. The remaining 81 currently active wells were not metered because it is believed that they will become inactive within 6 to 12 months as a result of urban development in southern Chino Basin. Watermaster reads the production data from the meters on a quarterly basis and enters these data into Watermaster's relational database.

#### Surface Water Monitoring

Water Quality and Quantity in Recharge Basins. Watermaster measures the quantity and quality of storm and supplemental water entering the recharge basins. Pressure transducers or staff gauges are used to measure water levels during recharge operations. In addition to these quantity measurements, imported water quality values for State Water Project water are obtained from the Metropolitan Water District of Southern California (MWDSC) and recycled water quality values for the RP1 and RP4 treatment plant effluents are obtained from IEUA. Watermaster monitors the storm water quality in the eight major channels (San Antonio, West Cucamonga, Cucamonga, Deer Creek, Day Creek, San Sevaine, West Fontana, and Declez) usually after each major storm event. Combining the measured flow data with the respective water qualities enables the calculation of the blended water quality in each recharge basin, the "new yield" to the Chino Basin, and the adequate dilution of recycled water.

Surface Water Monitoring in Santa Ana River (SAR). Watermaster measures the discharge of the river and selected water quality parameters to determine those reaches of the SAR that are gaining flow from Chino Basin and/or, conversely, those reaches that are losing flow into the Chino Basin. These bi-weekly flow and water quality measurements are combined with discharge data from permanent USGS and Orange County Water District (OCWD) stream gauges and discharge data from publicly owned treatment works (POTWs). These data are used in groundwater modeling to assess the extent of hydraulic control.



Status Report to the Court Status Report 2006-1: January to June 2006

#### HCMP Annual Report

In January of 2004, the RWQCB amended the Water Quality Control Plan (Basin Plan) for the Santa Ana River Basin to incorporate an updated total dissolved solids (TDS) and nitrogen management plan. The Basin Plan Amendment includes both "antidegradation" and "maximum benefit" objectives for TDS and nitrate-nitrogen for the Chino and Cucamonga groundwater management zones. The application of the "maximum benefit" objectives relies on Watermaster and the IEUA's implementation of a specific program of projects and requirements, which are an integral part of the OBMP. On April 15 2005, the RWQCB adopted resolution R8-2005-0064; thus approving the Surface Water Monitoring Program and Groundwater Monitoring Program in support of maximum benefit commitments in the Chino and Cucamonga Basins. Watermaster and the IEUA completed the 2005 Annual Report, which summarizes the results for those two programs, and submitted it to the RWQCB on April 14, 2006 in partial fulfillment of maximum benefit commitments.

#### Chino Basin Recycled Water Groundwater Recharge Program

The IEUA, Watermaster, Chino Basin Water Conservation District, and San Bernardino County Flood Control District jointly sponsor the Chino Basin Recycled Water Groundwater Recharge Program. This is a comprehensive water supply program to enhance water supply reliability and improve the groundwater quality in local drinking water wells throughout the Chino Groundwater Basin by increasing the recharge of stormwater, imported water, and recycled water. The recharge program is regulated under RWQCB Order No. R8-2005-0033 and Monitoring and Reporting Program No. R8-2005-0033.

Recharge Activities. Recycled water recharge in the Banana and Hickory Basins began in 2005. Recycled water recharge in Turner Basin will begin in July 2006.

Monitoring Activities. Watermaster and the IEUA collect weekly and bi-weekly water quality samples from basins that are actively recharging recycled water and from lysimeters installed within those basins. During this reporting period, approximately 600 basin and lysimeter samples were collected. Monitoring wells located downgradient of the recharge basins were sampled every two weeks during the reporting period for a total of about 100 samples.

Construction Activities. Lysimeters and monitoring wells associated with the Banana, Hickory, and Turner Basins were installed in 2005. No other construction activities related to the monitoring the recharge program occurred during this reporting period. Lysimeters and monitoring wells are expected to be constructed at the RP-3, Declez, and Ely Basins in fiscal year (FY) 2006/07.

Reporting. Watermaster and the IEUA completed the following required reports concerning the recharge program during the reporting period:

- Turner Start-Up Protocol Plan February 2006
- Banana Start-Up Report Not yet submitted
- Hickory Start-Up Report Not yet submitted
- 4Q05 Quarterly Report February 2006
- 1Q06 Quarterly Report May 2006

#### Land Surface Monitoring

Watermaster developed a multifaceted land surface monitoring program to develop data for a long-term management plan for land subsidence in Management Zone 1 (MZ-1). The monitoring program consisted of three main elements:

- · An aquifer system monitoring facility consisting of multiple depth piezometers and a dual bore extensometer.
- The application of synthetic aperture radar interferometry (InSAR) to measure historical land surface deformation.
- Benchmark surveys to measure land surface deformation, "ground truth" the InSAR data, and evaluate effectiveness
  of the long term management plan.

Following two years of data collection and analysis, Watermaster submitted the MZ-1 Summary Report in October 2005, which contained Guidance Criteria to minimize subsidence and fissuring. The Guidance Criteria included a listing of Managed Wells and their owners subject to the criteria, a map of the so-called Managed Area, an initial threshold water level (Guidance Level) of 245 feet below the top of the PA-7 well casing, and a plan for ongoing monitoring and notification. Since October 2005, the MZ-1 Summary Report and the Guidance Criteria contained therein have been discussed extensively by the parties involved, and were adopted by the Watermaster Board at its May 2006 Meeting.



The MZ-1 monitoring program has continued unabated. Water level monitoring has been expanded to the central regions of MZ-1 with the installation of transducers/data loggers at selected wells owned by the City of Chino, the Monte Vista Water District, and the City of Pomona. This expansion of the water level monitoring program is the initial effort to better understand the mechanisms behind ongoing land subsidence in this region.

#### Program Element 2: Develop and Implement a Comprehensive Recharge Program

Construction on the Chino Basin Facilities Improvement Project (CBFIP) Phase I was completed by December 31, 2005 at a cost of \$38M; 50% from a SWRCB Proposition 13 Grant, and 25% each from Watermaster and the IEUA. A CBFIP Phase II list of projects was developed by Watermaster and the IEUA, including monitoring wells, lysimeters, recycled water connections, SCADA system expansions, three MWDSC turnouts, and berm heightening and hardening. At a cost of approximately \$10M, these Phase II facilities will be purchased through a 50% Grant from DWR and 25% each from Watermaster and the IEUA.

In FY 2005-2006, the CBFIP Phase I facilities were able to recharge 49,000 AF of storm and supplemental water; an improvement of 36,000 AF over the historical recharge before the CBFIP. With the completion of the Phase II facilities in FY 2006-2007, the operating plan calls for the recharge of 75,000 AF of storm and supplemental water. By the start of FY 2007-2008, most of the basins will be operating on a 12 months per year basis with only occasional downtime for silt and organic growth removal. Operations and basin planning are coordinated through the Groundwater Recharge Coordinating Committee (GRCC) which meets monthly.

## Program Element 3: Develop and Implement water Supply Plan for the Impaired Areas of the Basin; and

#### Program Element 5: Develop and Implement Regional Supplemental Water Program

Construction on the Chino I Desalter Expansion and the Chino II Desalter facilities was completed in February 2006 and an application has been made for \$1.6 M in Proposition 50 funds to add 8 MGD of ion exchange capacity to the Chino II Desalter. As currently configured, the Chino I Desalter provides 2.6 MGD of treated (air stripping for VOCs) water from Wells 1-4, 4.9 MGD of treated (ion exchange for nitrate removal) water from Wells 5-15, and 6.7 MGD of treated (reverse osmosis for nitrate and TDS removal) water from Wells 5-15 for a total of 14.2 MGD (16,000 AFY). The Chino II Desalter provides 4.0 MGD of ion exchange treated water and 6.0 MGD of reverse osmosis treated water from 8 additional wells for a total of 10.0 MGD (11,000 AFY).

Watermaster has been conducting modeling investigations of various desalter expansion alternatives including the expansion of Chino I and II. The initial work was submitted by Wildermuth Environmental to Watermaster in April 2006. Black and Veatch developed reconnaissance-level engineering plans and costs for these desalter alternatives. Additional modeling work has been completed for a new set of alternatives with the desalter wells located between the Central Avenue fault and Chino I Well No. 5. The latter alternatives can be used to mitigate the Chino Airport plume and meet the hydraulic control objective of Watermaster.

# Program Element 4: Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1

In October 2005, Watermaster completed the MZ-1 Summary Report, including the Guidance Criteria. Over the following 6 months, the impacted parties have had numerous meetings in an effort to transform the Summary Report into a long-term management plan. The Summary Report and the Guidance Criteria were adopted by the Watermaster Board in May 2006. Presently, additional data are being developed by the impacted parties in an effort to achieve acceptable resolution of issues arising from the Guidance Criteria.

The Cities of Chino and Chino Hills have each submitted forbearance certifications through June 30, 2006 of achieving their goals of 1500 AF forbearance for FY 2005/06.



Program Element 6: Develop and Implement Cooperative Programs with the Regional Water Quality Control Board, Santa Ana Region (Regional Board) and Other Agencies to Improve Basin Management; and

#### Program Element 7: Develop and Implement a Salt Management Program

Two Water Quality Committee meetings (January 16, 2006 and April 20, 2006) were held during this six-month period to discuss the status of the investigations of the three major water quality plumes in the Basin. In addition, Watermaster collected samples from several wells for perchlorate isotope analyses. Lastly, Watermaster continued to monitor the activities of General Electric's (GE) continuing remediation at the Flat Iron facility.

#### MZ-3 Monitoring Program.

The former Kaiser plume has been incorporated into an overall monitoring program for the MZ-3 area. The MZ-3 monitoring program is also assessing the groundwater quality impairment from total dissolved solids (TDS), nitrate, and perchlorate. The perchlorate may have originated from the Mid-Valley Landfill (in Rialto Basin, across the Rialto-Colton fault) or it may be a non-point source that resulted from the historical application of Chilean fertilizer. Two rounds of quarterly samples were collected from 22 wells, including former Kaiser wells that Watermaster previously renovated: MP2 and KOFS. The MP2 cluster of wells (four depths) was in the heart of the Kaiser plume when the well was constructed; while KOFS was just beyond the leading edge of the plume. MP2 continues to show an impact from the Kaiser plume and the KOFS well is now impacted. Based on the analytical results, tentative locations were identified for two new monitoring wells. Negotiations were successfully concluded with the City of Ontario to locate one of the wells in a street right-of-way. Construction of that monitoring well has now been included in a bid package for the construction of monitoring wells at recharge basins, so that Watermaster can obtain a more competitive bid based on economies of scale.

#### Ontario International Airport (OIA) Volatile Organic Chemical Plume.

Watermaster met with the consultant to the PRPs, Lynne Preslo/GeoEco, on March 22, 2006. After the meeting, Watermaster provided a water quality and water level database consisting of data from more than 400 private wells and 200 public wells to the RWQCB, which in turn forwarded the database to the PRPs pursuant to their request. In addition to the database, the PRPs requested that they have access to the Chino Basin groundwater model developed by Wildermuth Environmental, Inc. (WEI). Watermaster and WEI agreed to share their modeling expertise with consultants from the PRPs in WEI's office. After the PRPs have had an opportunity to review the data and model, Watermaster will propose to the RWQCB that a follow-up meeting be held to discuss future activities towards remediating the plume.

#### Chino Airport VOC Plume.

Watermaster met with the RWQCB, the San Bernardino County Department of Airports, and their consultant Tetra Tech on March 17, 2006 to discuss a joint remediation of the VOC plume from the airport. Such a joint remediation would help address other issues in the southwestern portion of Chino Basin such as maintenance of hydraulic control and the provision of high quality drinking water in an area of increasing demand. As a result of the meeting, Watermaster agreed to provide a database containing well construction information, water quality, water levels, and production for wells located southwest of the Chino airport. In addition, Watermaster agreed to sample all the wells in this location that could still be sampled to provide up-to-date analytical data on all the possible contaminants in these wells. Twenty-five wells were sampled by Watermaster in May and June of 2006. Once the analytical results are obtained from the laboratory, uploaded into Watermaster's relational database, and data releases are obtained from the private well owners, these data will be reviewed with Tetra Tech to begin the engineering of appropriate remedial actions.

#### Perchlorate Isotope Study.

Neil Sturchio, Professor and Head of the Department of Earth and Environmental Sciences at the University of Illinois at Chicago, has developed a technique for using stable isotopes of chloride and oxygen to distinguish the origin of perchlorate (man-made vs. naturally occurring). There are several per mil shifts in isotopes of both ions between the two sources. He has tested several samples of leachate from fertilizer nitrogen (from the Atacama Desert in Chile) and rocket fuel sources. One of the innovations that Professor Sturchio has developed is the use of a flow-through column with an anion-exchange resin. These bifunctional anion exchange resins were originally developed at Oak Ridge National Laboratory and the University of Tennessee to selectively sorb the pertechnetate ion TcO<sub>4</sub>- (technetium is mobile with a long half-life, much like perchlorate). A resin



regeneration step is added to recover the perchlorate ion. The exchange resin is required to concentrate the typically low levels of perchlorate in groundwater so that the perchlorate can be analyzed isotopically. Watermaster sampled 15 wells in Chino and Cucamonga Basins and submitted samples to acommercial laboratory for general mineral, general physical, and perchlorate analyses. The resin columns were sent to Professor Sturchio's laboratory at the University of Illinois.

#### GE Flat Iron Remediation.

Finally, with respect to the GE Flat Iron remediation, GE conducted a screening of options for the disposal of treated effluent from their operational pump and treat facilities. Currently, GE discharges their effluent into the Ely Basins, where it percolates back into the groundwater. However, this operation limits Watermaster's ability to recharge recycled water into the Ely Basins and, consequently, Watermaster has asked that GE develop alternative disposal means. As a result of their screening, GE has decided to investigate, in detail, the construction of groundwater injection wells that would be operated in conjunction with their own recharge basin. GE will complete their planning by the fourth quarter 2006 and begin detailed design upon the RWQCB's approval of the concept.

#### TDS and Nitrogen Monitoring Pursuant to the 2004 Basin Plan Amendment

Pursuant to the 2004 Basin Plan Amendment and the Watermaster/IEUA permit to recharge recycled water, Watermaster and the IEUA have conducted groundwater and surface water monitoring programs. Quarterly HCMP reports that summarize data collection efforts were submitted to the RWQCB in February and April of 2006. An annual HCMP report for 2005 was submitted to the RWQCB in April 2006.

#### Program Element 8: Develop and Implement a Groundwater Storage Management Program; and

#### Program Element 9: Develop and Implement a Storage and Recovery Program

In March 2006, Watermaster submitted a proposal to the San Diego County Water Authority regarding SDCWA use of storage in the Chino Basin. Subsequently, in May 2006, Watermaster staff and legal counsel attended a meeting with SDCWA staff to discuss Watermaster's proposal. SDCWA will make a decision in the second half of 2006 regarding Watermaster's proposal.

The Watermaster/IEUA/Metropolitan Dry Year Yield (DYY) program continued on during the reporting period. As of June 30, 2006, about 60,500 acre-ft had been stored in the Basin in Metropolitan's DYY account. The construction statuses of local facilities included in the DYY program for the participating parties are as follows:

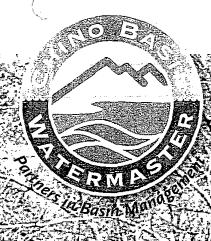
- City of Ontario Wellhead treatment facility: final design began in April 2006. DYY Wells: Drilling on well no. 45 complete, pump testing on no. 47 complete, and drilling on well no. 46 underway.
- Cucamonga Valley Water District Six new wells (nos. 39-42, 44, and 45): designs completed for well nos. 39-42 and pre-designs and CEQA documentations completed for well nos. 44 and 45.
- City of Upland New IX treatment facility constructed and online.
- City of Pomona Expansion of existing IX treatment facility: final design complete.
- City of Chino Hills Refurbish Pellisier well and construct new treatment facility: design underway
- Monte Vista Water District Well no. 31: design will be in completed July 2006. Well no. 33 and treatment facility (joint MVWD/Chino project): Well construction is underway and treatment facility design will commence upon the completion of the well.
- Jurupa Community Services District Expansion of the Teagarden IX facility: scheduled for completion in October 2006.



# **EXHIBIT "B"**

Chino Basin Watermaster Twenty Eighth Annüal Report

Fiscal Year 2004-05



AVAILE IN THE OFFICE
OR
SON THE BEENET AT

WWW ELECTION

Working Together to Maximize the Benefits of Chino Basin