- **APPENDIX A: Checklist Arranged by Water Code Section**
- **APPENDIX B: Notices**
- **APPENDIX C: Memos to Wholesale Suppliers**
- **APPENDIX D:** Population Tool Results
- **APPENDIX E: Water Loss Audit**
- **APPENDIX F: SB X7-7 Verification Forms**
- **APPENDIX G:** Chino Groundwater Basin Adjudication
- **APPENDIX H: Orange County Adjudication**
- **APPENDIX I: Western-San Bernardino Adjudication**
- **APPENDIX J: JCSD Water Supply Outlook**
- **APPENDIX K: CASGEM Priorities Spreadsheet**
- **APPENDIX L: JCSD Consumer Confidence Report 2014**
- **APPENDIX M: JCSD Ordinance No. 389**
- APPENDIX N: JCSD Resolution Nos. 2627 and 2628
- APPENDIX O: JCSD Resolution Nos. 2511 and 2512
- **APPENDIX P: Adoption Resolution**

APPENDIX A

CHECKLIST ARRANGED BY WATER CODE SECTION

Checklist Arranged by Water Code Section

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location (Optional Column for Agency Use)
10608.20(b)	Retail suppliers shall adopt a 2020 water use target using one of four methods.	Baselines and Targets	Section 5.7 and App E	Section 5.7 (p. 5-7)
10608.20(e)	Retail suppliers shall provide baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.	Baselines and Targets	Chapter 5 and App E	Chapter 5 (p. 5-1 - 5-10)
10608.22	Retail suppliers' per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use of the 5 year baseline. This does not apply is the suppliers base GPCD is at or below 100.	Baselines and Targets	Section 5.7.2	Section 5.7 (p. 5-8)
10608.24(a)	Retail suppliers shall meet their interim target by December 31, 2015.	Baselines and Targets	Section 5.8 and App E	Section 5.7 (p. 5-9)
1608.24(d)(2)	If the retail supplier adjusts its compliance GPCD using weather normalization, economic adjustment, or extraordinary events, it shall provide the basis for, and data supporting the adjustment.	Baselines and Targets	Section 5.8.2	N/A
10608.26(a)	Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets.	Plan Adoption, Submittal, and Implementation	Section 10.3	Section 10.3 (p. 10-3)
10608.36	Wholesale suppliers shall include an assessment of present and proposed future measures, programs, and policies to help their retail water suppliers achieve targeted water use reductions.	Baselines and Targets	Section 5.1	N/A
10608.40	Retail suppliers shall report on their progress in meeting their water use targets. The data shall be reported using a standardized form.	Baselines and Targets	Section 5.8 and App E	Section 5.7 (p. 5-10)
10620(b)	Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.	Plan Preparation	Section 2.1	Section 2.1 (p. 2-1)
10620(d)(2)	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	Plan Preparation	Section 2.5.2	Section 2.1 (p. 2-2)

Appendix A CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location
10620(f)	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	Water Supply Reliability Assessment	Section 7.4	p. 7-7
10621(b)	Notify, at least 60 days prior to the public hearing, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.	Plan Adoption, Submittal, and Implementation	Section 10.2.1	p. 10-1, Appendix B
10621(d)	Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.	Plan Adoption, Submittal, and Implementation	Sections 10.3.1 and 10.4	p. 10-4
10631(a)	Describe the water supplier service area.	System Description	Section 3.1	Section 3.1 (p. 3-1)
10631(a)	Describe the climate of the service area of the supplier.	System Description	Section 3.3	Section 3.3 (p. 3-6)
10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Section 3.5 (p. 3-9)	
10631(a)	Provide population projections for 2020, 2025, 2030, and 2035.	System Description	Section 3.4	Section 3.5 (p. 3-9)
10631(a)	Describe other demographic factors affecting the supplier's water management planning.	System Description	Section 3.4	Section 3.5 (p. 3-10)
10631(b)	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, 2030, and 2035.	System Supplies	Chapter 6	Table 6-8, p. 6-33 & Table 6-9,
10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Section 6.2	p. 6-4
10631(b)(1)	Indicate whether a groundwater management plan has been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	System Supplies	Section 6.2.2	p. 6-13 Appendix G, H, & I.
10631(b)(2)	Describe the groundwater basin.	System Supplies	Section 6.2.1	p. 6-8 to 6-13
10631(b)(2)	Indicate if the basin has been adjudicated and include a copy of the court order or decree and a description of the amount of water the supplier has the legal right to pump.	System Supplies	Section 6.2.2	p. 6-13 Appendix G, H, & I
10631(b)(2)	For unadjudicated basins, indicate whether or not the department has identified the basin as overdrafted, or projected to become overdrafted. Describe efforts by the supplier to eliminate the long-term overdraft condition.	System Supplies	Section 6.2.3	N/A
10631(b)(3)	Provide a detailed description and analysis of the location, amount, and sufficiency of	System Supplies	Section 6.2.4	Table 6-1,p.6-4 p. 6-8

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location
	groundwater pumped by the urban water supplier for the past five years			
10631(b)(4)	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	System Supplies	Sections 6.2 and 6.9	p. 6-30 to 6-34
10631(c)(1)	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage.	Water Supply Reliability Assessment	Section 7.1	p. 7-2
10631(c)(1)	Provide data for an average water year, a single dry water year, and multiple dry water years	Water Supply Reliability Assessment	Section 7.2	p. 7-3 to 7-4
10631(c)(2)	For any water source that may not be available at a consistent level of use, describe plans to supplement or replace that source.	Water Supply Reliability Assessment	Section 7.1	p. 7-1 , 7-6
10631(d)	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System Supplies	Section 6.7	p. 6-31
10631(e)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Section 4.2	Section 4.1 - 4.2 (p. 4-1 - 4.4)
10631(e)(3)(A)	Report the distribution system water loss for the most recent 12-month period available.	System Water Use	Section 4.3	Section 4.3 (p. 4-4)
10631(f)(1)	Retail suppliers shall provide a description of the nature and extent of each demand management measure implemented over the past five years. The description will address specific measures listed in code.	Demand Management Measures	Sections 9.2 and 9.3	p. 9-2 to 9-12
10631(f)(2)	Wholesale suppliers shall describe specific demand management measures listed in code, their distribution system asset management program, and supplier assistance program.	Demand Management Measures	Sections 9.1 and 9.3	N/A
10631(g)	Describe the expected future water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years.	System Supplies	Section 6.8	p. 6-32
10631(i)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Section 6.6	p. 6-30
10631(j)	CUWCC members may submit their 2013- 2014 CUWCC BMP annual reports in lieu of, or in addition to, describing the DMM implementation in their UWMPs. This option is only allowable if the supplier has been found to be in full compliance with the CUWCC MOU.	Demand Management Measures	Section 9.5	p. 9-13
10631(j)	Retail suppliers will include documentation that they have provided their wholesale supplier(s) – if any - with water use	System Supplies	Section 2.5.1	Appendix C

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location
	projections from that source.	Subject	Location	Location
10631(j)	Wholesale suppliers will include documentation that they have provided their urban water suppliers with identification and quantification of the existing and planned sources of water available from the wholesale to the urban supplier during various water year types.	System Supplies	Section 2.5.1	N/A
10631.1(a)	Include projected water use needed for lower income housing projected in the service area of the supplier.	System Water Use	Section 4.5	Section 4.4 (p. 4-6)
10632(a) and 10632(a)(1)	Provide an urban water shortage contingency analysis that specifies stages of action and an outline of specific water supply conditions at each stage.	Water Shortage Contingency Planning	Section 8.1	p. 8-2 to 8-4 Appendix M
10632(a)(2)	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three- year historic sequence for the agency.	Water Shortage Contingency Planning	Section 8.9	p. 8-15
10632(a)(3)	Identify actions to be undertaken by the urban water supplier in case of a catastrophic interruption of water supplies.	Water Shortage Contingency Planning	Section 8.8	p. 8-13 to 8-15
10632(a)(4)	Identify mandatory prohibitions against specific water use practices during water shortages.	Water Shortage Contingency Planning	Section 8.2	Table 8A, p. 8-5
10632(a)(5)	Specify consumption reduction methods in the most restrictive stages.	Water Shortage Contingency Planning	Section 8.4	p. 8-10
10632(a)(6)	Indicated penalties or charges for excessive use, where applicable.	Water Shortage Contingency Planning	Section 8.3	p. 8-9
10632(a)(7)	Provide an analysis of the impacts of each of the actions and conditions in the water shortage contingency analysis on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts.	Water Shortage Contingency Planning	Section 8.6	p. 8-12
10632(a)(8)	Provide a draft water shortage contingency resolution or ordinance.	Water Shortage Contingency Planning	Section 8.7	p. 8-13 Appendix M
10632(a)(9)	Indicate a mechanism for determining actual reductions in water use pursuant to the water shortage contingency analysis.	Water Shortage Contingency Planning	Section 8.5	p. 8-12
10633	For wastewater and recycled water, coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.1	p. 6-21 to 6-27
10633(a)	Describe the wastewater collection and treatment systems in the supplier's service area. Include quantification of the amount of	System Supplies (Recycled Water)	Section 6.5.2	p. 6-25, 6-26

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location
	wastewater collected and treated and the methods of wastewater disposal.			
10633(b)	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	System Supplies (Recycled Water)	Section 6.5.2.2	Table 6-3, p. 6-26
10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.3 and 6.5.4	p. 6-26. 6-27
10633(d)	Describe and quantify the potential uses of recycled water and provide a determination of the technical and economic feasibility of those uses.	System Supplies (Recycled Water)	Section 6.5.4	p. 6-27
10633(e)	Describe the projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected.	System Supplies (Recycled Water)	Section 6.5.4	Table 6-4, p. 6-28
10633(f)	Describe the actions which may be taken to encourage the use of recycled water and the projected results of these actions in terms of acre-feet of recycled water used per year.	System Supplies (Recycled Water)	Section 6.5.5	p. 6-29
10633(g)	Provide a plan for optimizing the use of recycled water in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.5	p. 6-29, 6-30
10634	Provide information on the quality of existing sources of water available to the supplier and the manner in which water quality affects water management strategies and supply reliability	Water Supply Reliability Assessment	Section 7.1	p. 7-2
10635(a)	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing the total water supply sources available to the water supplier with the total projected water use over the next 20 years.	Water Supply Reliability Assessment	Section 7.3	p. 7-4 to 7-6
10635(b)	Provide supporting documentation that Water Shortage Contingency Plan has been, or will be, provided to any city or county within which it provides water, no later than 60 days after the submission of the plan to DWR.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	p. 10-4
10642	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	Plan Preparation	Section 2.5.2	Section 2.1 (p. 2-3)
10642	Provide supporting documentation that the urban water supplier made the plan available for public inspection, published notice of the public hearing, and held a public hearing	Plan Adoption, Submittal, and Implementation	Sections 10.2.2, 10.3, and 10.5	p. 10-2 to 10-5, Appendix B, Appendix P

Appendix A			Guidebook	UWMP
CWC Section	UWMP Requirement	Subject	Location	Location
	about the plan.			
10642	The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water.	Plan Adoption, Submittal, and Implementation	Sections 10.2.1	p. 10-2, Appendix B
10642	Provide supporting documentation that the plan has been adopted as prepared or modified.	Plan Adoption, Submittal, and Implementation	Section 10.3.1	p. 10-3, Appendix P
10644(a)	Provide supporting documentation that the urban water supplier has submitted this UWMP to the California State Library.	Plan Adoption, Submittal, and Implementation	Section 10.4.3	р. 10-4
10644(a)(1)	Provide supporting documentation that the urban water supplier has submitted this UWMP to any city or county within which the supplier provides water no later than 30 days after adoption.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	р. 10-4
10644(a)(2)	The plan, or amendments to the plan, submitted to the department shall be submitted electronically.	Plan Adoption, Submittal, and Implementation	Sections 10.4.1 and 10.4.2	р. 10-3
10645	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the supplier has or will make the plan available for public review during normal business hours.	Plan Adoption, Submittal, and Implementation	Section 10.5	p. 10-5

Jurupa Community Services District 2015 Urban Water Management Plan

APPENDIX B

NOTICES

Documents

There are several locations on our website that provides access to a number of documents such as:

- 2016 California Environmental Quality Act Guidelines
- Agenda Packets for Public Meetings (Board, Committee, Commission, and Citizens Advisory Board)
- Capacity Charges Study
- Community Facilities Districts (CFD)
 - CFD Maps
 - Disclosure Reports
- Claim Form
- Development Services Forms
- Enterprise Systems List
- Financial Statements
- Master Sewer Plan
 - MSP Part 1
 - MSP Part 2
 - MSP Part 3
 - MSP Part 4
 - MSP Part 5
 - MSP Part 6
 - MSP Part 7
 - MSP Part 8
 - MSP Part 9
- Operating Budgets
- Prop 218 Notice Regarding Water and Sewer Rates
- Sewer Rates for 2015 2019
- Strategic Plan
- Urban Water Management Plan 2015 Draft
- Water Rates for 2015 2019

If you looking for a document that is not on our website, please visit the Public Records page for information on how to obtain specific public documents.



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THE PRESS-ENTERPRISE

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PROOF OF PUBLICATION (2010, 2015.5 C.C.P)

Publication(s): The Press-Enterprise

PROOF OF PUBLICATION OF

Ad Desc.: 2015 UWMP

I am a citizen of the United States. I am over the age of eighteen years and not a party to or interested in the above entitled matter. I am an authorized representative of THE PRESS-ENTERPRISE, a newspaper in general circulation, printed and published daily in the County of Riverside, and which newspaper has been adjudicated a newspaper of general circulation by the Superior Court of the County of Riverside, State of California, under date of April 25, 1952, Case Number 54446, under date of March 29, 1957, Case Number 65673, under date of August 25, 1995, Case Number 267864, and under date of September 16, 2013, Case Number RIC 1309013; that the notice, of which the annexed is a printed copy, has been published in said newspaper in accordance with the instructions of the person(s) requesting publication, and not in any supplement thereof on the following dates, to wit:

06/13, 06/20/2016

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Date: Jun 20, 2016

At: Riverside, California

Legal Advertising Representative, The Press-Enterprise

JURUPA CSD 11201 HARREL ST MIRA LOMA, CA 91752

Ad Number: 0010171979-01

P.O. Number: 2015 UWMP

Ad Copy:

NOTICE OF PREPARATION OF AN URBAN WATER MANAGEMENT PLAN

To: Responsible and Trustee Agencies; Interested Organizations and Individuals

From: Eddie Rhee, P.E., Interim Engineering Manager, Jurupa Community Services District

Subject: Jurupa Community Services District 2015 Urban Water Management Plan.

Notice of Preparation of an Urban Water Management Plan:

Pursuant to California Water Code §10608– 10656, Jurupa Community Services District (JCSD) has prepared its 2015 Urban Water Management Plan (UWMP). The purpose of the UWMP is to report, describe, and evaluate: water deliveries and uses, water supply sources, efficient water uses, demand management measures, and water shortage contingency planning.

This transmittal constitutes the official notice of public hearing on JCSD's 2015 UWMP and serves as an opportunity for you or your organization to provide input on the plan before it is adopted.

UWMP Public Hearing:

Notice is hereby given that the Jurupa Community Services District will hold a public hearing for the general public and any interested agencies regarding JCSD's 2015 UWMP. The meeting will be held on **June 27, 2016, at 7:00 p.m.** The meeting will be held at the Jurupa Community Services District Board Room located at 11201 Harrel Street, Jurupa Valley, CA 91752.

Public Review Period:

The 14-day public review period will commence on Monday, June 13, 2016 and conclude on Monday, June 27, 2016.

The UWMP can be reviewed at the following locations:

- JCSD District Office: 11201 Harrel Street, Jurupa
- Valley, CA 91752 • JCSD Web site: www.jcsd.us

Any responses must be submitted to JCSD at the earliest possible date, but no later than the June 27th deadline. Comments must be submitted in writing, or via email, to:

Eddie Rhee, P.E., Interim Engineering Manager Jurupa Community Services District 11201 Harrel Street Jurupa Valley, CA 91752 (951) 685-7434 erhee@icsd.us

6/13, 20

THE PRESS-ENTERPRISE

1825 Chicago Ave, Suite 100 Riverside, CA 92507 951-684-1200 951-368-9018 FAX

PROOF OF PUBLICATION (2010, 2015.5 C.C.P)

Publication(s): The Press-Enterprise

PROOF OF PUBLICATION OF

Ad Desc.: 2015 UWMP

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I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Date: Jun 20, 2016

At: Riverside, California

Legal Advertising Representative, The Press-Enterprise

JURUPA CSD 11201 HARREL ST MIRA LOMA, CA 91752

Ad Number: 0010171979-01

P.O. Number: 2015 UWMP

Ad Copy:

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From: Eddie Rhee, P.E., Interim Engineering Manager, Jurupa Community Services District

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- Valley, CA 91752 • JCSD Web site: www.jcsd.us

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Eddie Rhee, P.E., Interim Engineering Manager Jurupa Community Services District 11201 Harrel Street Jurupa Valley, CA 91752 (951) 685-7434 erhee@icsd.us

6/13, 20

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Account #:	1100141293			NOTICE OF PREPARA URBAN WATER MANAG	TION OF AN EMENT PLAN		
Client:				To: Responsible and Trustee Agen zations and Individuals	cies; Interested Organi-		
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				This transmittal constitutes the	official notice of public		
				hearing on JCSD's 2015 UWMP portunity for you or your organi on the plan before it is adopted.	zation to provide input		
				UWMP Public Hearing: Notice is hereby given that the Ju			
				ices District will hold a public heari lic and any interested agencies r UWMP. The meeting will be held o	ng for the general pub-		
Start Date:	06/13/2016			7:00 p.m . The meeting will be held of 7:00 p.m . The meeting will be held of munity Services District Board R	eld at the Jurupa Com-		
Stop Date:	06/20/2016			Harrel Street, Jurupa Valley, CA 91	752.		
Insertions:	2 print / 2 online			Public Review Period: The 14-day public review period w			
				day, June 13, 2016 and conclude 2016.			
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Ad type:		-		 JCSD District Office: 11201 Ha Valley, CA 91752 JCSD Web site: www.jcsd.us 			
				Any responses must be submitted possible date, but no later than th Comments must be submitted in w	to JCSD at the earliest the June 27th deadline.		
				Eddie Rhee, P.E., Interim Engineer	ring Manager		
Size:	2 X 61 Li			Jurupa Community Services Distric 11201 Harrel Street Jurupa Valley, CA 91752	ot		
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Amount Due:	\$488.00						



April 21, 2016

Mr. Curtis Paxton General Manager Chino Basin Desalter Authority 2151 S. Haven Avenue Ontario, CA 91761

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Paxton:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

The public hearing will be held at the following time and place for the purpose of hearing any and all public testimony on the above-stated issue.

- DATE: Monday, June 27, 2016 7:00 p.m.
- PLACE: Jurupa Community Services District Board Room 11201 Harrel Street Mira Loma, CA 91752

All interested persons are invited to attend the public hearing and provide comments regarding the Draft 2015 UWMP. Oral statements will be heard, but for the accuracy of the record all important testimony should be submitted in writing.

A copy of the Draft 2015 UWMP will be available beginning on June 13, 2016, on the District's website at <u>www.jcsd.us</u> or by hard copy at the District office. Please direct comments and guestions to me at (951) 685-7434.

MU

Eddie Rhee, P.E. Interim Engineering Manager



April 21, 2016

Mr. Peter Kavounas General Manager Chino Basin Watermaster 9641 San Bernardino Road Rancho Cucamonga, CA 91730

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Kavounas:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

The public hearing will be held at the following time and place for the purpose of hearing any and all public testimony on the above-stated issue.

- DATE: Monday, June 27, 2016 7:00 p.m.
- PLACE: Jurupa Community Services District Board Room 11201 Harrel Street Mira Loma, CA 91752

All interested persons are invited to attend the public hearing and provide comments regarding the Draft 2015 UWMP. Oral statements will be heard, but for the accuracy of the record all important testimony should be submitted in writing.

A copy of the Draft 2015 UWMP will be available beginning on June 13, 2016, on the District's website at <u>www.jcsd.us</u> or by hard copy at the District office. Please direct comments and questions to me at (951) 685-7434.

Eddie Rhee, P.E.

Interim Engineering Manager



April 21, 2016

Ms. Michele Nissen City of Eastvale 12363 Limonite Ave., Suite 910 Eastvale, CA 91752

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Ms. Nissen:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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Eddie Rhee, P.E.

Interim Engineering Manager



April 21, 2016

Mr. Gary Thompson City Manager City of Jurupa Valley 8930 Limonite Avenue Jurupa Valley, CA 92509

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Thompson:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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UN Eddie Rhee, P.E.

Interim Engineering Manager



April 21, 2016

Mr. Andy Okoro City of Norco 2870 Clark Avenue Norco CA 92860

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Okoro:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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Eddie Rhee, P.E

Interim Engineering Manager



April 21, 2016

Mr. Al C. Boling City Manager City of Ontario 303 East "B" Street Ontario, CA 91764

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Boling:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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Eddie Rhee, P.E. Interim Engineering Manager



April 21, 2016

Mr. Girish Balachandran General Manager City of Riverside Public Utilities Department 3901 Orange Street Riverside, CA 92501

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Balachandran:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

The public hearing will be held at the following time and place for the purpose of hearing any and all public testimony on the above-stated issue.

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Eddie Rhee, P.E. Interim Engineering Manager



April 21, 2016

Mr. Michael H. Lin, Ed.D. Superintendent Corona-Norco Unified School District 2820 Clark Avenue Norco, CA 92860

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Lin:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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nn

Eddie Rhee, P.E. Interim Engineering Manager



April 21, 2016

Mr. P. Joseph Grindstaff **General Manager** Inland Empire Utilities Agency 6075 Kimball Avenue Chino, CA 91708

Notice of Preparation of the 2015 Jurupa Community Services District Urban Water RE: Management Plan (UWMP)

Dear Mr. Grindstaff:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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Eddie Rhee, P.E.

Interim Engineering Manager



April 21, 2016

Mr. Elliott Duchon Superintendent Jurupa Unified School District 4850 Pedley Road Jurupa Valley, CA 92509

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Duchon:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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1 Eddie Rhee, P.E.

Interim Engineering Manager



April 21, 2016

Mr. David Lopez General Manager Rubidoux Community Services District 3590 Rubidoux Blvd Jurupa Valley, CA 92509

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Lopez:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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Eddie Rhee, P.E.

Interim Engineering Manager



April 21, 2016

Mr. J. Arnold Rodriguez General Manager Santa Ana River Water Company 10530 54th Street Jurupa Valley, CA 91752-2331

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Rodriguez:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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11 A Eddie Rhee, P.E.

Interim Engineering Manager



April 21, 2016

Mr. John Rossi General Manager Western Municipal Water District 14205 Meridian Parkway Riverside, CA 92518

RE: Notice of Preparation of the 2015 Jurupa Community Services District Urban Water Management Plan (UWMP)

Dear Mr. Rossi:

The Board of Directors of the Jurupa Community Services District (JCSD) has scheduled a public hearing to provide comments on the Draft 2015 Urban Water Management Plan (UWMP).

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NO Eddie Rhee

Interim Engineering Manager

APPENDIX C

MEMOS TO WHOLESALE SUPPLIERS



May 9, 2016

Ms. Karly Gaynor Water Resource Analyst Western Municipal Water District 14205 Meridian Parkway Riverside, CA 92518

RE: Water Use Projections Provided per Requirement of California Water Code Section 10631(j)

Dear Karly:

Pursuant to your request, please find below tables that have been taken from Jurupa Community Services District's Draft 2015 Urban Water Management Plan that summarize the District's water use projections.

Use Type (Add additional rows as needed)		Projected Water Use Report To the Extent that Records are Available						
<u>Use Drop down list</u> May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool	Additional Description (as needed)	2020	2025	2030	2035	2040-opt		
Single Family		15,700	17,341	19,153	21,154	23,364		
Multi-Family		1,359	1,501	1,657	1,830	2,022		
Landscape	potable	2,353	2,599	2,870	3,170	3,502		
Other	CII	3,119	3,444	3,804	4,202	4,641		
Other	Hydrant (construction)	665	735	811	896	990		
Landscape	non-potable (raw water)	592	654	722	797	881		
Losses	potable & non-potable combined	1,189	1,314	1,451	1,602	1,770		
	TOTAL	24,977	27,588	30,468	33,651	37,170		

Western Municipal Water District May 9, 2016 Page 2

Water Supply						Projected V	Vater Supply				
Drop down list		20	020	20	25	20	030	20)35	2040	(opt)
May use each category multiple times. These are the only water supply categories that will be compiled by the WIEfdata online	Reasonably Available Volume	Total Right or Safe Yield <i>(optional)</i>	Reasonably Available Volume	Total Right or Safe Yield <i>(optional)</i>	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield <i>(optional)</i>	Reasonably Available Volume	Total Right or Safe Yield (optional)	
Add additional rows as needed							_				
Purchased or Imported Water	Western Municipal Water District	5,000		7,500		10,000		10,000		10,000	
Other	Dry Year Yield conjunctive use agreement with City of Ontario	2,000		2,000		2,000		2,000		2,000	
Purchased or Imported Water	from Rubidoux Community Services District	2,000		2,000		2,000		2,000		2,000	
Groundwater	Current wells	10,000		12,000		14,000		14,000		14,000	
Purchased or Imported Water	Chino Desalter Authority	11,733		11,733		11,733		11,733		11,733	
Recycled Water	WRCWRA plant	500		500		500		500		500	
Groundwater	Non-Potable from Riverside Basin	450		450		450		450		450	
Groundwater	Non-Potable from Chino Basin	310		310		310		310		310	
Groundwater	Non-Potable from Temescal Basin	120		120		120		120		120	
	Total	32,113	0	36,613	0	41,113	0	41,113	0	41,113	0

Should you have any further questions or concerns, please feel free to contact me at (909) 685-7434 or e-mail me at <u>erhee@jcsd.us</u>.

Sincerely,

an m

Eddie Rhee, P.E. Interim Engineering Manager

ER/sc J/:Engineering/UWMP/2015 UWMP



May 26, 2016

Ms. Casey Costa Chino Basin Desalter Authority 2151 S. Haven Avenue, Suite 202 Ontario, CA 91761

RE: Water Use Projections Provided per Requirement of California Water Code Section 10631(j)

Dear Casey:

Pursuant to California Water Code Section 10631(j), please find below tables that have been taken from Jurupa Community Services District's Draft 2015 Urban Water Management Plan that summarize the District's water use projections.

Use Type (Add additional rows as needed)		Repor		ected Water <i>ent that Rec</i> o		ailable
<u>Use Drop down list</u> May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool		2020	2025	2030	2035	2040-opt
Single Family	<i>a</i>	15,700	17,341	19,153	21,154	23,364
Multi-Family		1,359	1,501	1,657	1,830	2,022
Landscape	potable	2,353	2,599	2,870	3,170	3,502
Other	CII	3,119	3,444	3,804	4,202	4,641
Other	Hydrant (construction)	665	735	811	896	990
Landscape	non-potable (raw water)	592	654	722	797	881
Losses	potable & non-potable combined	1,189	1,314	1,451	1,602	1,770
	TOTAL	24,977	27,588	30,468	33,651	37,170

Chino Desalter Authority May 26, 2016 Page 2

Water Supply		Projected Water Supply									
Drop down list		2020		2025		2030		2035		2040 (opt)	
May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online	Additional Detail on Water Supply	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield <i>(optional)</i>	Reasonably Available Volume	Total Right or Safe Yield <i>(optional)</i>
Add additional rows as needed	and the second second				Citra Cale						
Purchased or Imported Water	Western Municipal Water District	5,000		7,500		10,000		10,000		10,000	
Other	Dry Year Yield conjunctive use agreement with City of Ontario	2,000		2,000		2,000		2,000		2,000	
Purchased or Imported Water	Rubidoux CSD (Riverside Basin)	2,000		2,000		2,000		2,000		2,000	
Groundwater	Current potable wells (Chino Basin)	10,000		12,000		14,000		14,000		14,000	
Purchased or Imported Water	Chino Desalter Authority (Chino Basin)	11,733		11,733		11,733		11,733		11,733	
Recycled Water	WRCRWA plant	500		500		500		500		500	
Groundwater	Non-Potable from Riverside Basin	450		450		450		450		450	
Groundwater	Non-Potable from Chino Basin	310		310		310		310		310	
Groundwater	Non-Potable from Temescal Basin	0		0		0		0		0	
	Total	31,993	0	36,493	0	40,993	0	40,993	0	40,993	0

Should you have any questions or concerns, please feel free to contact me at (909) 685-7434 or e-mail me at <u>erhee@jcsd.us</u>.

Sincerely,

M Eddle Rhee, P.E

Interim Engineering Manager

ER/sc Cc: Robert Tock J/:Engineering/UWMP/2015 UWMP

APPENDIX D

POPULATION TOOL RESULTS

Sign Out

WUEdata - Jurupa Community Service District

		Confirmation Info	ormation			
Generated I		Water Supplier Name	Confirmation		enerated On	
Nanette Prat	ini Jurupa	a Community Service District	4846418082	5/26/	2016 3:27:09 PM	
		Boundary Infor	mation			
Census	Year	Boundary	Filename		Internal Boundary ID	
199		jcsd_bnd_2000_f			898	
200		jcsd_bnd_2000_f			898	
201	0	jcsd_bnd_2000_f	or DWRtool.kml		898	
		Baseline Period	Ranges			
		10 to 15-year basel	ine period			
	Number of y	ears in baseline period:	[10 🗸		
	Year beginni	ng baseline period range:	[1999 🗸		
	Year ending	baseline period range ¹ :		2008		
		5-year baseline	period			
	Year beginni	ng baseline period range:	[2003 🗸		
	Year ending	baseline period range ² :		2007		
		ear must be between Decembe				
	² The ending ye	ear must be between Decembe	r 31, 2007 and De	cember 31, 2	2010.	

	Persons	per Connection	
	Census Block Level	Number of	Persons per
Year	Total Population	Connections *	Connection
1990	42,479	9700	4.38
1991	-	-	4.39
1992	-	-	4.39
1993	-	-	4.40
1994	-	-	4.40
1995	-	-	4.40
1996	-	-	4.41
1997	-	-	4.42
1998	-	-	4.42
1999	-	-	4.43
2000	50,489	11391	4.43
2001	-	-	4.41
2002	-	-	4.40
2003	-	-	4.38
2004	-	-	4.37
2005	-	-	4.35
2006	-	-	4.33
2007	-	-	4.32
2008	-	-	4.30
2009	-	-	4.29
2010	108,248	25374	4.27
2015	-	-	4.18 **

Year		Number of Connections *	Persons per Connection	Total Population			
10 to 15 Year Baseline Population Calculations							
Year 1	1999	11280	4.43	49,914			
Year 2	2000	11391	4.43	50,489			
Year 3	2001	12425	4.41	54,844			
Year 4	2002	14357	4.40	63,142			
Year 5	2003	16085	4.38	70,484			
Year 6	2004	18986	4.37	82,893			
Year 7	2005	20762	4.35	90,315			
Year 8	2006	22540	4.33	97,688			
Year 9	2007	23551	4.32	101,693			
Year 10	2008	24005	4.30	103,270			
	5 Ye	ar Baseline Popul	ation Calculations				
Year 1	2003	16085	4.38	70,484			
Year 2	2004	18986	4.37	82,893			
Year 3	2005	20762	4.35	90,315			
Year 4	2006	22540	4.33	97,688			
Year 5	2007	23551	4.32	101,693			
	2015 Co	mpliance Year Po	pulation Calculations				
2015		28462	4.18 **	119,034			

QUESTIONS / ISSUES? CONTACT THE WUEDATA HELP DESK

APPENDIX E

WATER LOSS AUDIT

AWWA Free Water Audit Software v5.0

American Water Works Association Copyright © 2014, All Rights Reserved.

This spreadsheet-based water audit tool is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. It provides a "top-down" summary water audit format, and is not meant to take the place of a full-scale, comprehensive water audit format. Auditors are strongly encouraged to refer to the most current edition of AWWA M36 Manual for Water Audits for detailed guidance on the water auditing process and targetting loss reduction levels The spreadsheet contains several separate worksheets. Sheets can be accessed using the tabs towards the bottom of the screen, or by clicking the buttons below. The following guidance will help you complete the Audit Please begin by providing the following information Name of Contact Person: Eddie Rhee All audit data are entered on the Reporting Worksheet Email Address: erhee@jcsd.us Value can be entered by user Telephone | Ext.: 9516857434 ext. 118 Value calculated based on input data Name of City / Utility: Jurupa Community Services District These cells contain recommended default values Jurupa Valley City/Town/Municipality: State / Province: California (CA) Value: Use of Option Pcnt: Country: USA (Radio) Buttons: 0 25% ۲ \bigcirc 2015 Calendar Year Year: Select the default percentage To enter a value, choose this button and enter a by choosing the option button value in the cell to the right on the left Audit Preparation Date: 4/1/2016 Volume Reporting Units: Acre-feet PWSID / Other ID: CA3310021 The following worksheets are available by clicking the buttons below or selecting the tabs along the bottom of the page Reporting Worksheet Comments Performance Water Balance Dashboard Instructions Indicators Enter the required data Enter comments to A graphical summary of The values entered in The current sheet. on this worksheet to Review the explain how values the Reporting Enter contact the water balance and performance indicators calculate the water information and basic were calculated or to Worksheet are used to Non-Revenue Water . to evaluate the results balance and data grading audit details (year, populate the Water document data sources components of the audit units etc) Balance Loss Control Acknowledgements **Grading Matrix** Service Connection Definitions Example Audits Planning Diagram Presents the possible Use this sheet to **Reporting Worksheet** Acknowledgements for Use this sheet to the AWWA Free Water grading options for understand the terms and Performance **Diagrams** depicting interpret the results of Audit Software v5.0 used in the audit each input component Indicators examples the audit validity score possible customer service process of the audit and performance are shown for two connection line indicators validated audits configurations If you have guestions or comments regarding the software please contact us via email at: wlc@awwa.org

	AWW	VA Free	Water Audit So	oftware:					WA	\S v5.0
		<u>Repo</u>	orting Workshee	<u>et</u>				A	American Water Work	s Associatio
? Click to access definition	Water Audit Report for: Jure	una Comn	nunity Services Distric	ct (CA3310021)					1	
+ Click to add a comment		2015	1/2015 - 12/2015						1	
		a usadu if m		-	la dia ati		fields a second			
	below. Where available, metered values should b ent (n/a or 1-10) using the drop-down list to the le								e accuracy of the	
	All vol	umes to b	e entered as: ACRE-F	EET PER YEAR						
	ct the correct data grading for each input, det	termine the	e highest grade where							_
10 36160	ct the correct data grading for each input, der					ter Meter	and S	upply	Error Adjustmer	nts
WATER SUPPLIED		<		in column 'E' and 'J'	>	Pcnt:			Value:	_
	Volume from own sources: +	? 7	9,837.738	-			-	0		acre-ft/yr
	Water imported: + Water exported: +	? 7 ? 7	12,543.319 284.754	-			-	0		acre-ft/yr acre-ft/yr
			204.704			r negative			e for under-regist	
	WATER SUPPLIED:		22,096.303	acre-ft/yr		-			for over-registra	
										_
AUTHORIZED CONSUMPTION	Billed metered: +	? 7	21,360.056	acre-ft/vr					k here: ? help using option	
	Billed unmetered: +	? 7	,	acre-ft/yr					tons below	
	Unbilled metered: +	? 7	0.000	acre-ft/yr		Pcnt:			Value:	_
	Unbilled unmetered: +	?	276.204	acre-ft/yr		1.25%	۲	0		acre-ft/yr
De	efault option selected for Unbilled unmete	red - a gra	ading of 5 is applied b	ut not displayed			A			
	AUTHORIZED CONSUMPTION:	?	21,636.260	acre-ft/yr			:		e buttons to select rcentage of water supplied	
WATER LOSSES (Water Suppl	lied - Authorized Consumption)		460.043	acre-ft/yr	_				<u>OR</u> value	
Apparent Losses						Pcnt:		▼	Value:	
	Unauthorized consumption: +	?	55.241	acre-ft/yr		0.25%	۲	0		acre-ft/yr
Default	option selected for unauthorized consum	ption - a g	rading of 5 is applied	but not displayed						
	Customer metering inaccuracies: +	? 4	0.000	acre-ft/yr			۲	0		acre-ft/yr
	Systematic data handling errors: 🕂			acre-ft/yr		0.25%	۲	0		acre-ft/yr
Defa	ult option selected for Systematic data ha	ndling err			d					
	Apparent Losses:	?	108.641	acre-ft/yr						
Real Losses (Current Annual F Real Losse	s = Water Losses - Apparent Losses:	?	351.402	acre-ft/vr						
				-						
	WATER LOSSES:		460.043	acre-ft/yr						_
NON-REVENUE WATER										
	NON-REVENUE WATER:	?	736.247	acre-ft/yr						
= Water Losses + Unbilled Metered	+ Unbilled Unmetered									_
SYSTEM DATA										
	Length of mains: +	? 8	450.0	miles						
Number of <u>a</u>	<u>ctive AND inactive</u> service connections: + Service connection density:	? 7	29,669	conn./mile main						
	Service connection density.	?	0							
	located at the curbstop or property line?		Yes	(length of service li	ne, hevo	and the pro	operty			
	Average length of customer service line: +			boundary, that is th	e respo	nsibility of	the util	ity)		
Average lengt	th of customer service line has been set to									
	Average operating pressure: +	? 7	70.0	psi						
										_
COST DATA										
	l annual cost of operating water system:		\$29,147,816							
Customer retai	I unit cost (applied to Apparent Losses): +	? 7	\$2.10	\$/100 cubic feet (ccf)						

Variable production cost (applied to Real Losses): + ? 7

\$879.23 \$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 65 out of 100 ***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

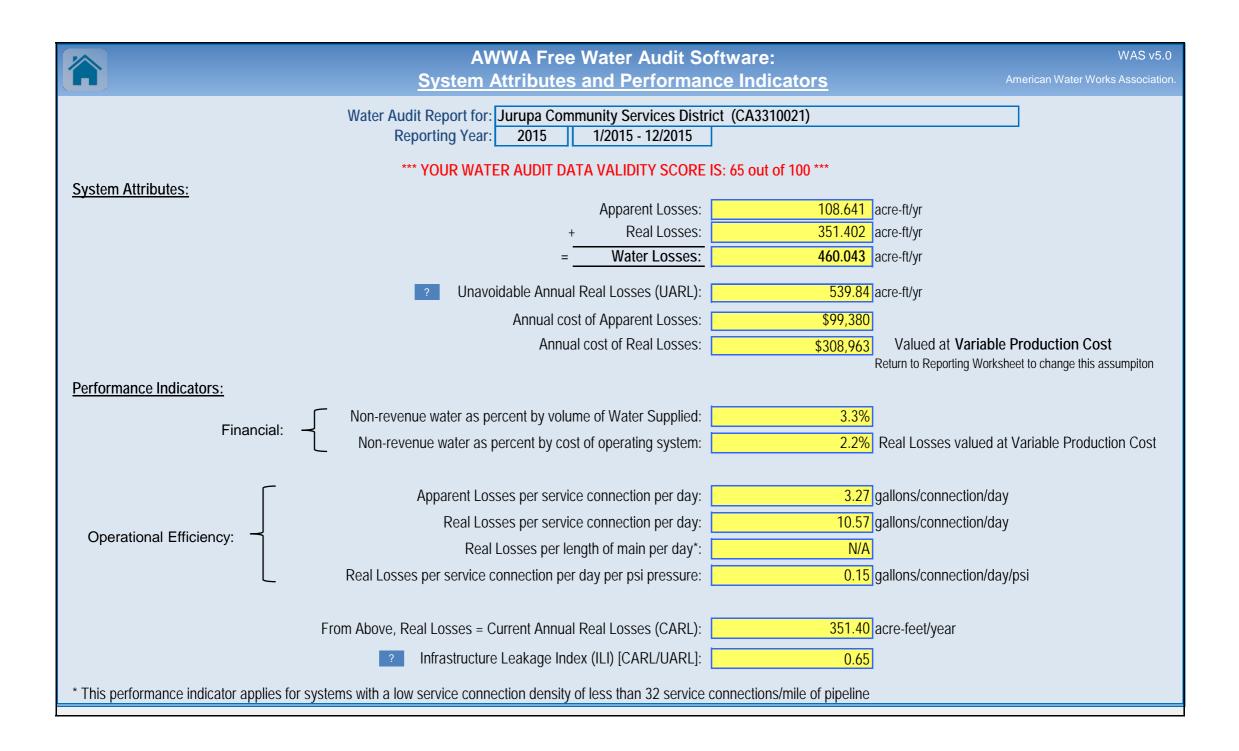
PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Water imported

2: Customer metering inaccuracies

3: Volume from own sources





AWWA Free Water Audit Software: <u>User Comments</u>

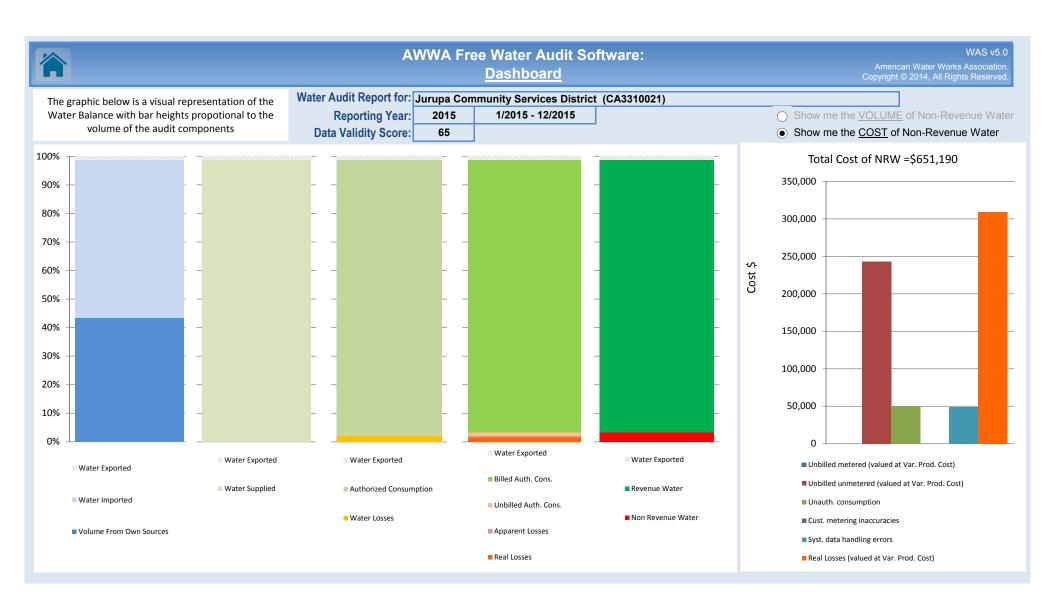
WAS v5.0 American Water Works Association. Copyright © 2014, All Rights Reserved.

Use this worksheet to add comments or notes to explain how an input value was calculated, or to document the sources of the information used.

General Comment:	
Audit Item	Comment
Volume from own sources:	Value is derived from the 2015 Annual Report Production table under section 5, by adding Produced from Groudnwater annual value of 8992.563 AF (Column C) and Non-Potable annual total of 845.175 AF (Column H) to arrive at 9,837.738 AF
Vol. from own sources: Master meter error adjustment:	
Water imported:	This value is listed in the 2015 Annual Report Production table under section 5- Columne E (Annual Total).
Water imported: master meter error adjustment:	
Water exported:	This value is the value of the meter read on the 1st of the month. It is also listed in the Production table in the Annual Total for Column G.
Water exported: master meter error adjustment:	
Billed metered:	In 2015 Annual Report, Section 6b- Water Deliveries, this value is derived by adding Total values for Column H- 21,106.31 AF (Total Urban Retail) and Column I- 538.5 AF (Agricultural), then subtracting Swan Lake Annutal total volume of 284.754 AF (Column G in Production data in Section 5).
Billed unmetered:	
Unbilled metered:	

Audit Item	Comment
Unbilled unmetered:	
Unauthorized consumption:	
Customer metering inaccuracies:	
Systematic data handling errors:	
Length of mains:	
Number of active AND inactive service connections:	
Average length of customer service line:	
Average operating pressure:	Assumed Nomal pressure of 70 psi. Pressures range anywhere between 40 psi to 150 psi in the District, with majority in the 70 to 80 psi range
Total annual cost of operating water system:	
Customer retail unit cost (applied to Apparent Losses):	
Variable production cost (applied to <u>Real Losses):</u>	

斧		AW	/WA Free Wa	ter Audit Software: <u>Wat</u> e	Americ	WAS v5.0 can Water Works Association © 2014, All Rights Reserved
		Wa	ater Audit Report for: Reporting Year: Data Validity Score:		(CA3310021) 1/2015 - 12/2015	
		Water Exported 284.754			Billed Water Exported	Revenue Water 284.754
				Billed Authorized Consumption	Billed Metered Consumption (water exported is removed) 21,360.056	Revenue Water
Own Sources (Adjusted for known			Authorized Consumption	21,360.056	Billed Unmetered Consumption 0.000	21,360.056
errors)			21,636.260	Unbilled Authorized Consumption	Unbilled Metered Consumption 0.000	Non-Revenue Wate (NRW)
9,837.738				276.204	Unbilled Unmetered Consumption 276.204	
	System Input 22,381.057	Water Supplied		Apparent Losses	Unauthorized Consumption 55.241	736.247
		22,096.303		108.641	Customer Metering Inaccuracies 0.000	
			Water Losses		Systematic Data Handling Errors 53.400	
Water Imported			460.043	Real Losses	Leakage on Transmission and/or Distribution Mains <i>Not broken down</i>	
12,543.319				351.402	Leakage and Overflows at Utility's Storage Tanks <i>Not broken down</i>	
					Leakage on Service Connections Not broken down	



			AWW	A Free Water Audit Software	: <u>Grading Matrix</u>	American Water Works Association. Cop	WAS 5.0 pyright © 2014, All Rights Reserved.
	Th	e grading assigned to each au	dit component and the corresponding recomm	ended improvements and actions are highlighte	d in yellow. Audit accuracy is likely to be improve	d by prioritizing those items shown in red	
Grading >>>	n/a	1	2 3	4 5 WATER SUPPL	6 7	8 9	10
Volume from own sources:	Select this grading only if the water utility purchases/imports all of its water resources (i.e. has no sources of its own)	Less than 25% of water production sources are metered, remaining sources are estimated. No regular meter accuracy testing or electronic calibration conducted.	25% - 50% of treated water production sources are metered; other sources estimated. No regular meter accuracy testing or electronic calibration conducted.	50% - 75% of treated water production sources are metered, other sources estimated. Occasional meter accuracy testing or electronic calibration conducted.	At least 75% of treated water production sources are metered, <u>or</u> at least 90% of the source flow is derived from metered sources. Meter accuracy testing and/or electronic calibration of related instrumentation is conducted annually. Less than 25% of tested meters are found outside of +/- 6% accuracy.	100% of treated water production sources are metered, meter accuracy testing and electronic calibration of related instrumentation is conducted annually, less than 10% of meters are found outside of +/- 6% accuracy	100% of treated water production sources are metered, meter accuracy testing and electronic calibration of related instrumentation is conducted semi-annually, with less than 10% found outside of +/- 3% accuracy. Procedures are reviewed by a third party knowledgeable in the M36 methodology.
Improvements to attain higher data grading for "Volume from own Sources" component:		to qualify for 2: Organize and launch efforts to collect data for determining volume from own sources	to <u>qualify for 4:</u> Locate all water production sources on maps and in the field, launch meter accuracy testing for existing meters, begin to install meters on unmetered water production sources and replace any obsolete/defective meters.	to qualify for 6: Formalize annual meter accuracy testing for all source meters: specify the frequency of testing. Complete installation of meters on unmetered water production sourc and complete replacement of all obsolete/defective meter	to qualify for 8: Conduct annual meter accuracy testing and calibration of related instrumentation on all meter installations on a regula basis. Complete project to install new, or replace defective se existing, meters so that entire production meter population metered. Repair or replace meters outside of 4/- 6% accuracy.	to qualify for 10: Maintain annual meter accuracy testing and calibration of related instrumentation or all meter installations. Repair or replace meters outside of +1.3% accuracy. Investigate new meter technology, pilot one or more replacements with innovative meters in attempt to further improve meter accuracy.	to maintain 10: Standardize meter accuracy test frequency to semi-annual, or more frequent, for all meters. Repair or replace meters outside of +/- 3% accuracy. Continually investigate/piot improving metering technology.
Volume from own sources master meter and supply error adjustment:	Select n/a only if the water utility fails to have meters on its sources of supply	Inventory information on meters and paper records of measured volumes exist but are incomplete and/or in a very crude condition, data error cannot be determined	No automatic datalogging of production volumes; daily readings are scribed on paper records without any accountability controls. Flows are not balanced across the water distribution system: tank/storage elevation changes are not employed in calculating the "Volume from own sources" component and archived flow data is adjusted only when grossly evident data error occurs.	Production meter data is logged automatically in electronic format and reviewed at least on a monthly basis with necessary corrections implemented. "Volume from own sources" tabulations include estimate of daily charges in tanks/storage facilities. Meter data is adjusted when gross data errors occur, or occasional meter testing deems this necessary.	Hourly production meter data logged automatically & reviewed on at least a weekly basis. Data is adjusted to correct gross error when meter/instrumentation equipment malfunction is detected; and/or error is confirmed by meter accuracy testing. Tank/storage facility elevation changes are automatically used in calculating a balanced "Volume from own sources" component, and data gaps in the archived data are corrected on at least a weekly basis.	Continuous production meter data is logged automatically & reviewed each business day. Data is adjusted to correct gross error from detected meter/instrumentation equipment matiruction and/or results of meter accuracy testing. Tank/storage facility used in "Volume from own sources" tabulations and data gaps in the archived data are corrected on a daily basis.	Computerized system (SCADA or similar) automatically balances flows from all sources and storages, results are reviewed each business day. Tight accountability controls ensure that all data ages that occur in the archived flow data are quick/detectd and corrected. Regular calibrations between SCADA and sources minimal data transfer error.
Improvements to attain higher data grading for "Master meter and supply error adjustment" component:		to qualify for 2; Develop a plan to restructure recordkeeping system to capture all flow data; set a procedure to review flow data et a daily basis to detect input errors. Obtain more reliable information about existing meters by conducting field inspections of meters and related instrumentation, and obtaining manufacturer literature.	to qualify for 4: Install automatic datalogging equipment on production meters. Complete installation of level instrumentation at al tanks/storage facilities and include tank level data in automatic calculation routine in a computerized system. Construct a computerized listing or spreadsheet to archive input volumes, tank/storage volume changes and import/export flows in order to determine the composite "Water Supplied" volume for the distribution system. Set procedure to review this data on a monthly basis to detect gross anomalies and data gaps.	to qualify for 6: Refine computerized data collection and archive to includ hourly production meter data that is reviewed at least on weekly basis to detect specific data anomalies and gaps Use daily net storage change to balance flows in calculati "Water Suppled" volume. Recessary corrections to dat errors are implemented on a weekly basis.	an hourly basis. All data is reviewed and detected errors corrected each business day. Tank/storage levels variation	data to a Supervisory Control & Data Acquisition (SCADA)	to maintain 10: Monitor meter innovations for development of more accurate and less expensive flowmeters. Continue to replace or repair meters as they perform outside of desired accuracy limits. Stay abreast of new and more accurate water level instruments to better record tank/storage levels and archive the variations in storage volume. Keep current with SCADA and data management systems to ensure that archived data is well-managed and error free.
Water Imported:	Select n/a if the water utility's supply is exclusively from its own water resources (no bulk purchased/ imported water)	Less than 25% of imported water sources are metered, remaining sources are estimated. No regular meter accuracy testing.	25% - 50% of imported water sources are metered; other sources estimated. No regular meter accuracy testing.	50% - 75% of imported water sources are metered, other sources Conditions betwee estimated. Occasional meter 4 and 6 accuracy testing conducted.	At least 75% of imported water sources are metered, meter accuracy testing and/or electronic calibration of related instrumentation is conducted annually for all meter installations. Less than 25% of tested meters are found outside of +/- 6% accuracy.	100% of imported water sources are metered, meter accuracy testing and electronic alibration of related instrumentation is conducted annually, 8 and 10 less than 10% of meters are found outside of +/- 6% accuracy	100% of imported water sources are metered, meter accuracy testing and electronic calibration of related instrumentation is conducted semi- annually for all meter installations, with less than 10% of accuracy tests found outside of +/- 3% accuracy.
Improvements to attain higher data grading for "Water Imported Volume" component: (Note: usually the water supplier selling the water - "the Exporter" - to the utility being audited is responsible to maintain the metering installation measuring the imported volume. The utility should coordinate carefully with the Exporter to ensure that adequate meter upkeep takes place and an accurate measure of the Water Imported volume is quantified.)		to qualify for 2; Review bulk water purchase agreements with partner suppliers; confirm requirements for use and maintenance of accurate metering, Identify needs for new or replacement meters with goal to meter all imported water sources.	<u>To qualify for 4:</u> Locate all imported water sources on maps and in the field launch meter accuracy testing for existing meters, begin to install meters on umetered imported water interconnections and replace obsolete/defective meters.	to qualify for 6: Formalize annual meter accuracy testing for all imported water meters, planning for both regular meter accuracy testing and calibration of the related instrumentation. Continue instation of meters on unmetered imported wat interconnections and replacement of obsolete/defective meters.	to qualify for 8: Complete project to install new, or replace defective, meter on all imported water interconnections. Maintain annual meter accuracy testing for all imported water meters and conduct calibration of related instrumentation at least annually. Repair or replace meters outside of +/- 6% accuracy.	to qualify for 10: Conduct meter accuracy testing for all meters on a semi- annual basis, along with calibration of all related instrumentation. Repair or replace meters outside of +/- 3% accuracy. Investigate new meter technology, pilot one or mor replacements with innovative meters in attempt to improve meter accuracy.	to maintain 10: Standardize meter accuracy test frequency to semi-annual, or more frequent, for all meters. Continue to conduct calibration of releted instrumentation on a semi-annual basis. Repair or replace meters outside of +/- 3% accuracy. Continually investigate/pilot improving metering technology.

Grading >>>	n/a	1	2	3	4	5	6	7	8	9	10
Water imported master meter and supply error adjustment:	Select n/a if the Imported water supply is unnetered, with Imported water quantities estimated on the billing invices sent by the Exporter to the purchasing Utility.	Inventory information on imported meters and paper records of measured volumes exists but are incomplete and/or in a very crude condition; data error cannot be determined Written agreement(s) with water Exporter(s) are missing or written in vague language concerning meter management and testing.	No automatic datalogging of imported supply volumes; daily readings are scribed on paper records without any accountability controls to coorfim data accuracy and the absence of errors and data gaps in recorded volumes. Written gareement requires meter accuracy testing but is vague on the details of how and who conducts the testing.		Imported supply metered flow data is logged automatically in electronic format and reviewed at least on a monthly basis by the Exporter with necessary corrections implemented. Meter data is adjusted by the Exporter when gross data errors are detected. A coherent data trail exists for this process to protect both the selling and the purchasing Utility. Written agreement exists and clearly states requirements and roles for meter accuracy testing and data management.	Conditions between 4 and 6	Hourly Imported supply metered data is logged automatically & reviewed on at least a weekly basis by the Exporter. Data is adjusted to correct gross error when meter/instrumentation equipment mafunction is detected; and to correct for error confirmed by meter accuracy testing. Any data gaps in the archived data are detected and corrected during the weekly review. A coherent data trail exists for this process to protect both the selling and the purchasing Utility.	Conditions between 6 and 8	Continuous Imported supply metered flow data is logged automatically & reviewed each business day by the Exporter. Data is adjusted to correct gross error from detected meter/instrumentation equipment malfunction and/or results of meter accuracy testing. Any data errors/gaps are detected and corrected on a daily basis. A data trail exists for the process to protect both the selling and the purchasing Utility.	Conditions between 8 and 10	Computerized system (SCADA or similar) automatically records data which is reviewed each business day by the Exporter. Tight accountability controls ensure that all error/data gaps that occur in the archived flow data are quickly detected and corrected. A reliable data trail exists and contract provisions for meter testing and data management are reviewed by the selling and purchasing Utility at least once every five years.
Improvements to attain higher data grading for "Water imported master meter and supply error adjustment" component:		to qualify for 2: Develop a plan to restructure recordkeeping system to capture all flow data; set a procedure to review flow data; set a procedure to review flow data and a daily basis to detect input errors. Obtain more reliable information about existing meters by conducting field inspections of meters and related instrumentation, and obtaining manufacturer literature. Review the written agreement between the selling and purchasing Utility.	to qualify for 4: Instal automatic datalogging equip supply meters. Set a procedure tor monthy basis to detect gross anom. Launch discussions with the Export terms of the written agreement; rea testing and data management; re necessary.	eview this data on a alies and data gaps. ers to jointly review rding meter accuracy	to qualify for 6: Refine computerized data collection , hourly imported supply metered flow , least on a weekly basis to detect speci gaps. Make necessary corrections to weekly basis.	lata that is reviewed at fic data anomalies and	to qualify for 8: Ensure that all Imported supply met collected and archived on at least an ho reviewed and errors/data gaps are com day.	urly basis. All data is	to qualify for 10 Conduct accountability checks to co supply metered data is reviewed and data corrections should be available f Exporter and the purchasing Utility. Er regular review and updating of the cor written agreement between the selli Utility; at least every fix	nfirm that all Imported corrected each business eter accuracy tests and or sharing between the stablish a schedule for a tractual language in the ng and the purchasing	to maintain 10: Monitor meter innovations for development of more accurate and less expensive flowmeters; work with the Exporter to heb identify meter replacement needs. Keep communication lines with Exporters open and maintain productive relations. Keep the written agreement current with clear and explicit language that meets the ongoing needs of all parties.
Water Exported:	Select n/a if the water utility sells no bulk water to neighboring water utilities (no exported water sales)	Less than 25% of exported water sources are metered, remaining sources are estimated. No regular meter accuracy testing.	25% - 50% of exported water sources are metered; other sources estimated. No regular meter accuracy testing.	Conditions between 2 and 4	50% - 75% of exported water sources are metered, other sources estimated. Occasional meter accuracy testing conducted.	Conditions between 4 and 6	At least 75% of exported water sources are metered, meter accuracy testing and/or electronic calibration conducted amually. Less than 25% of tested meters are found outside of +/- 6% accuracy.	Conditions between 6 and 8	100% of exported water sources are metered, meter accuracy testing and electronic calibration of related instrumentation is conducted annually, less than 10% of meters are found outside of +/- 6% accuracy	Conditions between 8 and 10	100% of exported water sources are metered, meter accuracy testing and electronic calibration of related instrumentation is conducted semi- annually for all meter installations, with less than 10% of accuracy tests found outside of +/- 3% accuracy.
Improvements to attain higher data grading for "Water Exported Volume" component: (Note: usually, if the water utility being audited sells (Exports) water to a neighboring purchasing Utility, it is the responsibility of the utility exporting the water to manitain the metering installation measuring the Exported volume. The utility exporting the water should ensure that adequate meter upkeep takes place and an accurate measure of the Water Exported volume is quantified.)		to qualify for 2: Review bulk water sales agreements with purchasing utilities; confirm requirements for use & upkeep of accurate metering. Identify needs to install new, or replace defective meters as needed.	<u>To qualify for 4:</u> Locate all exported water sources o launch meter accuracy lesing for exist install meters on unmetered e interconnections and replace obsole	ting meters, begin to ported water	to qualify for 6: Formalize annual meter accuracy te water meters. Continue installation of exported water interconnections a obsolete/defective m	meters on unmetered nd replacement of	<u>to qualify for 8:</u> Complete project to install new, or repla on all exported water interconnections meter accuracy testing for all exported v or replace meters outside of +/- i	s. Maintain annual vater meters. Repair	or replace meters outside of +/- 3% ac	g for all meters. Repair curacy. Investigate new e replacements with	to maintain 10: Standardize meter accuracy test frequency to semi-annual, or more frequent, for all meters. Repair or replace meters outside of +4. 3% accuracy. Continually investigate/pilot improving metering technology.
Water exported master meter and supply error adjustment:	Select n/a only if the water utility fails to have meters on its exported supply interconnections.	Inventory information on exported meters and paper records of measured volumes exist but are incomplete and/or in a very crude condition; data error cannot be determined Written agreement(s) with the utility purchasing the water are missing or written in vague language concerning meter management and testing.	No automatic datalogging of exported supply volumes; daily readings are sorbed on paper records without any accountability controls to coordim data accuracy and the absence of errors and data gaps in recorded volumes. Written agreement requires meter accuracy testing but is vague on the details of how and who conducts the testing.		Exported metered flow data is logged automatically in electronic format and reviewed at least on a monthly basis, with necessary corrections implemented. Meter data is adjusted by the utility selling (exporting) the water when gross data errors are detected. A coherent data trail exists for this process to protect both the utility exporting the water and the purchasing Utility. Written agreement exists and clearly states requirements and roles for meter accuracy testing and data management.	Conditions between 4 and 6	Hourly exported supply metered data is logged automatically & reviewed on at least a weekly basis by the utility selling the water. Data is adjusted to correct gross error when meter/instrumentation equipment mafunction is detected; and to correct for error found by meter accuracy testing. Any data gaps in the archived data are detected and corrected during the weekly review. A coherent data trail exists for this process to protect both the selling (exporting) utility and the purchasing Utility.	Conditions between 6 and 8	Continuous exported supply metered flow data is logged automatically & reviewed each business day by the utility selling (exporting) the water. Data is adjusted to correct gross error from detected meter/instrumentation equipment malfunction and any error confirmed by meter accuracy testing. Any data errors/gaps are detected and corrected on a daly basis. A data trail exists for the process to protect both the selling (exporting) Utility and the purchasing Utility.	Conditions between 8 and 10	Computerized system (SCADA or similar) automatically records data which is reviewed each business day by the utility selling (exporting) the water. Tight accountability controls ensure that all error/data gaps that occur in the archived flow data are quickly detected and corrected. A reliable data trail exists and contract provisions for meter testing and data management are reviewed by the selling Utility and purchasing Utility at least once every five years.

Grading >>>	n/a	1	2	3	4	5	6	7	8	9	10
Improvements to attain higher data grading for "Water exported master meter and supply error adjustment" component:		to qualify for 2: Develop a plan to restructure recordikeeping system to capture all flow data; set a procedure to review flow data on a daily basis to detect input errors. Obtain more reliable information about existing meters by conducting field inspections of meters and related instrumentation, and obtaining manufacturer literature. Review the written agreement between the utility selling (exporting) the water and the purchasing Utility.	to qualify for 4: Install automatic datalogging equipme meters. Set a procedure to review th basis to detect gross anomalies and discussions with the purchasing util terms of the written agreements rega testing and data management; re necessary.	tis data on a monthly data gaps. Launch ties to jointly review rding meter accuracy	to qualify for 6 Refine computerized that a collection hourly exported supply metered flow least on a weekly basis to detect spe gaps. Make necessary corrections to weekly basis.	data that is reviewed at ific data anomalies and	to qualify for 8: Ensure that all exported metered flow, archived on at least an hourly basis. All errors/data gaps are corrected ear	data is reviewed and	to qualify for 10 Conduct accountability checks to co metered flow data is reviewed and co day by the utility selling the water. accuracy tests and data corrections : sharing between the utility and the pur a schedule for a regular review and up language in the written agreements with at least every five y	nfirm that all exported irrected each business Results of all meter should be available for shasing Utility. Establish dating of the contractual h the purchasing utilities;	to maintain 10: Monitor meter innovations for development of more accurate and less expensive flowmeters; work with the purchasing utilities to help identify meter replacement needs. Keep communication lines with the purchasing utilities open and maintain productive relations. Keep the written agreement current with clear and explicit language that meets the ongoing needs of all parties.
					AUTHORIZED CC	NSUMPTION					
Billed metered:	n'a (not applicable). Select n'a onij if the entire customer population is not metered and is billed for water service on a flat or fixed rate basis. In such a case the volume entered must be zero.	Less than 50% of customers with volume-based billings from meter readings; flat or fixed rate billing exists for the majority of the customer population	At least 50% of customers with volume-based billing from meter reads; flat rate billing for others. Manual meter reading is conducted, with less than 60% meter read success rate, remainding accounts' consumption is estimated. Limited meter records, no regular meter testing or replacement. Billing data maintained on paper records, with no auditing.		At least 75% of customers with volume-based, billing from meter reads; fat or fixed rate billing for remaining accounts. Manual meter reading is conducted with at least 50% meter read success rate: consumption for accounts with fated reads is estimated. Purchase records verify age of customer meters; only very limited meter accuracy testing is conducted. Customer meters are replaced only upon complete failure. Computerized billing records exist, but only sporadic internal auditing conducted.	Conditions between 4 and 6	At least 90% of customers with volume based billing from meter reads; consumption for remaining accounts is estimated. Manual customer meter reading gives at least 80% customer meter reading success rate; consumption for accounts with failed reads is estimated. Good customer meter records exist, but only limited meter accuracy testing is conducted for the oldest meters. Computerized billing records exist with annual auditing of summary statistics conducting by utility personnel.	Conditions between 6 and 8	At least 97% of customers exist with volume-based billing from meter reads. At least 90% customer meter reading success rate: grt at least 80% read success rate: grt at least 80% Reading (AMK) or Advanced Metering Infrastructure (AMI) in one or more Reading (AMK) or Advanced Metering Infrastructure (AMI) in one or more records. Regular meter accuracy testing guides replacement of statistically significant number of meters each year. Routine auditing of computerized billing records for global and detailed statistics occurs annually by utility personnel, and is verified by third party at least once every five years.	Conditions between 8 and 10	At least 99% of customers exist with volume-based billing from meter reads. At least 95% customer meter reading success rate; <u>or</u> minimum 80% meter reading success rate, with Automatic Metering Intrastructure (AMI) trials underway. Statistically significant customer meter testing and replacement program in place on a continuous basis. Computerized billing thit noutine, detailed auditing, including field investigation of representative sample of accounts undertaken annually by utility personnel. Audit is conducted by thir dury auditors at least once every three years.
Improvements to attain higher data grading for "Silled Metera Consumption" component:	If n/a is selected because the customer meter population is umetered, consider establishing a new policy to meter the customer population and employ water rates based upon metered volumes.	to qualify for 2? Conduct investigations or trials of customer meters to select appropriate meter models. Budget funding for meter installations. Investigate volume based water rate structures.	to qualify for 4: Purchase and install meters on un Implement policies to improve met Catalog meter information during re identify age/model of existing mete number of meters for accuracy. Insta system.	er reading success. neter read visits to rs. Test a minimal	to qualify for 6 Purchase and instal meters on un Eliminate flat fee billing and establish structure based upon measured con achieve verfibale success in removing barriers. Expand meter accuracy te meter replacement program. Launc auditing of global billing statistics	ametered accounts. appropriate water rate sumption. Continue to g manual meter reading sting. Launch regular h a program of annual	<u>to qualify for 8:</u> Purchase and install meters on unme customer meter reading success rations (AMR) or Advanced Metering Infrastruc portion or entire system; <u>or</u> otherwise improvements in manual meter reading or higher. Refine meter accuracy ter meter replacement goals based upon a implement annual auding of detailed b personnel and implement third party a every five years.	e is less than 97%, atic Meter Reading ture (AMI) system for e achieve ongoing success rate to 97% sting program. Set accuracy test results. illing records by utility	to qualify for 10: Purchase and install meters on unmetered accounts. Launch Automatic Meter Reading (AMR) or Advanced Metering Infrastructure (AMI) system trials if manual meter reading success rate of at least 99% is not achieved within a five-year program. Continue meter accuracy testing program. Conduct planning and budgeting for large scale meter replacement based upon meter life cycle analysis using cumulative flow target. Continue annual detailed billing data auditing by utility personnel and conduct third party auditing at least once every three years.		to maintain 10: Continue annual internal billing data auditing, and third party auditing at least every three years. Continue customer meter accuracy testing to ensure that accurate customer meter readings are obtained and entered as the basis for volume based billing. Stay abreast of improvements in Automatic Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) and information management. Plan and budget for justified upgrades in metering, meter reading and billing data management to maintain very high accuracy in customer metering and billing.
Billed unmetered:	Select n/a if it is the policy of the water utility to meter all customer connections and it has been confined by detailed auding that all customers do indeed have a water meter; i.e. no intentionally unmetered accounts exist	Water utility policy does <u>not</u> require customer metering; flat or fixed fee billing is employed. No data is collected on customer consumption. The only estimates of customer population consumption available are derived from data estimation methods using average fidure count multipled by number of connections, or similar approach.	Water utility policy does <u>not</u> require customer metering; flat or fixed fee billing is employed. Some metered accounts exist in parts of the system (pilot areas or District Metered Areas) with consumption read periodically or recorded on portable datalogers over one, three, or seven day periods. Data from these sample meters are used to infer consumption for the total customer population. Site specific estimation methods are used for nunsual buildings/water uses.		Water utility policy <u>does</u> require metering and volume based billing in general. However, a liberal amount of exemptions and a lack of clearly written and communicated procedures result in up to 20% of billed accounts believed to be unmetered by exemption; or the water utility is in transition to becoming fully metered, and a large number of customers remain unmetered. A rough estimate of the annual consumption for all unmetered accounts is included in the annual water audit, with no inspection of individual unmetered accounts.	Conditions between 4 and 6	Water utility policy does require metering and volume based billing but established exemptions exist for a portion of accounts such as municipal buildings. As many as 15% of billed accounts are unmetered due to this exemption or meter installation difficulties. Only a group estimate of annual consumption for al unmetered accounts is included in the annual water audit, with no inspection of individual unmetered accounts.	Conditions between 6 and 8	Water utility policy <u>does</u> require metering and volume based billing for all customer accounts. However, less than 5% of billed accounts remain unnetered because meter installation is hindered by unusual circumstances. The goal is to minimize the number of metered accounts. Reliable estimates of consumption are obtained for these unmetered accounts via site specific estimation methods.	Conditions between 8 and 10	Water utility policy <u>does</u> require metering and volume based billing for all customer accounts. Less that 2% of billed accounts are unmetered and exist because meter installation is hindred by unusual circumstances. The goal exists to minimize the number of unmetered accounts to the extent that is economical. Reliable estimates of consumption are obtained at these accounts via site specific estimation methods.

Grading >>>	n/a	1	2	3	4	5	6	7	8	9	10
Improvements to attain higher data grading for "Billed Ummetered Consumption" component:		to qualify for 2: Conduct research and evaluate cost/benefit of a new water utility policy to require metering of the customer population; thereby greatly reducing or eliminating unmetered accounts. Conduct pilot metering project by installing water meters in small sample of customer accounts and periodically reading the meters or datalogging the water consumption over one, three, or seven day periods.	several different meter types, which will provide data for economic assessment of full scale metering options. Assess sites with access difficulties to devise means to obtain water consumption usin mea.		to qualify for 6: Refine policy and procedures to improve customer metering participation for all but solidly exempt accounts. Assign staff resources to review billing records to identify errant umnetered properties. Specify metering needs and funding requirements to install sufficient meters to significant reduce the number of unmetered accounts		<u>to quality for 8:</u> Push to install customer meters on a full scale basis. Refine metering poley and procedures to ensure that all accounts, including municipal properties, are designated for meters. Plan special efforts to address "hard-to-access" accounts. Implement procedures to obtain a reliable consumption estimate for the remaining few unmetered accounts awaiting meter installation.		to qualify for 10: Continue customer meter installation throughout the service area, with a goal to minimize unmetered accounts. Sustain the effort to investigate accounts with access difficulties, and devise means to install water meters or otherwise measure water consumption.		to maintain 10: Continue to refine estimation methods for unmetered consumption and explore means to establish metering, for as many billed remaining unmetered accounts as is economically feasible.
Unbilled metered:	select n/a if all billing- exempt consumption is unmetered.	Billing practices exempt certain accounts, such as municipal buildings, but written policies do not exist; and a reliable count of unbilled metered accounts is unavailable. Meter upkeep and meter reading on these accounts is rare and not considered a priority. Due to poor cordicepeing and lack of auditing, water consumption for all such accounts is purely guesstimated.	Billing practices exempt certain accounts, such as municipal buildings, but only scattered, dated written directives exist to justify this practice. A reliable count of unbilled metered accounts is unavailable. Sporadic meter replacement and meter reading occurs on an as- needed basis. The total annual water consumption for all unbilled, metered accounts is estimated based upon approximating the number of accounts and assigning consumption from actively billed accounts of same meter size.	Conditions between 2 and 4	Dated written procedures permit billing exemption for specific accounts, such as municipal properties, but are unclear regarding certain other types of accounts. Meter reading is given iow priority and is sporadic. Consumption is quantified from meter readings where available. The total number of unbiled, unmetered accounts must be estimated along with consumption volumes.	Conditions between 4 and 6	Written policies regarding biling exemptions exist but adherence in practice is questionable. Metering and neter reading for municipal buildings is reliable but sporadic for other unbilled such accounts. Periodic auditing of such accounts is conducted. Water consumption is quantified directly from meter readings where available, but the majority of the consumption is estimated.	Conditions between 6 and 8	Written policy identifies the types of accounts granted a biling exemption. Customer meter management and meter reading are considered secondary profiles, but meter reading is conducted at least annually to obtain consumption volumes for the annual water audit. High level auditing of billing records ensures that a reliable census of such accounts exists.		Clearly written policy identifies the types of accounts given a billing exemption, with emphasis on keeping such accounts to a minimum. Customer meter management and meter reading for these accounts is given proper priority and is reliably conducted. Regular auditing confirms this. Total water consumption for these accounts is taken from reliable readings from accurate meters.
Improvements to attain higher data grading for "Unbilled Metered Consumption" component:		to qualify for 2: Reasess the water utility's policy allowing certain accounts to be granted a billing exemption. Draft an outline of a new written policy for billing exemptions, with clear justification as to why any accounts should be exempt from billing, and with the intention to keep the number of such accounts to a minimum.	to qualify for 4: Review historic written directives and policy documents allowing certain accounts to be billing-exempt. Draft an outline of a written policy for billing exemptions, identify oriteria that grants an exemption, with a goal of keeping this number of accounts to a minimum. Consider increasing the priority of reading meters on unbilled accounts at least annually.		Draft a new written policy regarding bi upon consensus criteria allowing this resources to audit meter records and census of unbilled metered accounts greater number of these metered acc	to qualify for 6: Draft a new written policy regarding billing exemptions based upon consensus criteria allowing this occurrence. Assign resources to audit meter records and billing records to obtain census of unbilled metered accounts. Gradually include a greater number of these metered accounts to the routes for regular meter reading.		to qualify for 8: Communicate billing exemption policy throughout the organization and implement procedures that ensure proper account management. Conduct inspections of accounts confirmed in unbilled metered status and verify that accurate meters exist and are scheduled for routine meter readings. Gradually increase the number of unbilled metered accounts that are included in regular meter readings routes.		: eter accuracy testing, ng activities for unbilled ority as billed accounts. ess to ensure that water provided to the annual iss.	to maintain 10: Reassess the utilitys philosophy in allowing any water uses to go "unbilled". It is possible to meter and bill all accounts, even if the fee charged for water consumption is discounted or waived. Metering and billing all accounts ensures that water consumption is tracket and water waste from plumbing leaks is detected and minimized.
Unbilled unmetered:		Extent of unbilled, unmetered consumption is unknown due to unclear policies and poor recordkeeping. Total consumption is quantified based upon a purely subjective estimate.	Clear extent of unbilled, unmetered consumption is unknown, but a number of events are randomly documented each year, confirming existence of such consumption, but without sufficient documentation to quantify an accurate estimate of the annual volume consumed.		Extent of unbilled, unmetered consumption is partially known, and procedures exist to document certain events such as miscellaneous fire hydrant uses. Formulae is used to quartify the consumption from such events (time running multiplied by typical flowrate, multiplied by number of events).	Default value of 1.25% of system input volume is employed	Coherent policies exist for some forms of unbilled, unmetered consumption but others await closer evaluation. Reasonable recordkeeping for the managed uses exists and allows for annual volumes to be quantified by inference, but unsupervised uses are guesstimated.	Conditions between 6 and 8	Clear policies and good recordkeeping exist for some uses (ex: water used in periodic testing of unmetered fire connections), but other uses (ex: miscellaneous uses of fire hydrants) have limited oversight. Total consumption is a mix of well quantified use such as from formulae (time running multiplied by typical flow, multiplied by number of events) or temporary meters, and relatively subjective estimates of less regulated use.	Conditions between 8 and 10	Clear policies exist to identify permitted use of water in unbilled, unmetered fashion, with the intention of minimizing this type of consumption. Good records document each occurrence and consumption is quantified via formula (time running multiplied by ylocimal dow, multiplied by number of events) or use of temporary meters.
Improvements to attain higher data grading for "Unbilled Unmetered Consumption" component:		to qualify for 5: Utilize the accepted default value of 1.25% of the volume of water supplied as an expedient means to gain a reasonable quantification of this use. to qualify for 2: Establish a policy regarding what water uses should be allowed to remain as unbilled and unmetered. Consider tracking a small sample of one such use (ex. fire hydrant flushings).	to quality for 5: Utilize accepted default value of 1.2 water supplied as an expedient reasonable quantification (<u>supalify for 4</u>) Evaluate the documentation of eve observed. Meet with user groups (ex- departments, contractors to a socrat volume requirements for water fro	means to gain a of this use. ents that have been for fire hydrants - fire ain their need and/or	to qualify for 5: Utilize accepted default value of 1.25% of the volume of water supplied as an expedient means to gain a reasonable quantification of all such use. This is particularly appropriate for water utilities who are in the early stages of the water adding process, and should focus on other components since the volume of unbilled, unetered consumption is usually a relatively small quality component, and other larger-quantity components should take priority.	to qualify for 6 or. greater. Finalize policy and begin to conduct field checks to better estabilish and quantify such usage. Proceed if top-down audit exists and/or a great volume of such use is suspected.	unmetered usages. For example, ensu and permits are issued for use of fire outside of the utility. Create written pro documentation of fire hydrants by wa	Assess water utility policy and procedures for various netered usages. For example, ensure that a policy exists of permits are issued for use of fire hydrants by performance tside of the utility. Create written procedures for use and occumentation of fire hydrants by water utility personnel. e same approach for other types of unbilled, unmetered to determine if some of these uses have value in being converted to billed and/or metered status.		to maintain 10; Continue to refine policy and procedures with intention of reducing the number of allowable uses of water in unbilled and unmetered fashion. Any uses that can feasibly become billed and metered should be converted eventually.	
					APPARENT	LOSSES					•

Grading >>>	n/a	1	2	3	4	5	6	7	8	9	10
Unauthorized consumption:		Extent of unauthorized consumption is unknown due to unclear policies and poor recordkeeping. Total unauthorized consumption is guesstimated.	Unauthorized consumption is a known occurrence, but its extent is a mystery. There are no requirements to document observed events, but periodic field reports capture some of these occurrences. Total unauthorized consumption is approximated from this limited data.		Procedures exist to document some unauthorized consumption such as observed unauthorized fire hydrant openings. Use formulae to quantify this consumption (time running multiplied typical flowrate, multiplied by number of events).	Default value of 0.25% of volume of water supplied is employed	Coherent policies exist for some forms of unauthorized consumption (more than simply fire hydrant misuse) but others await closer evaluation. Reasonable surveillance and recordkeeping exist for occurrences that fall under the policy. Volumes quantified by inference from these records.	Conditions between 6 and 8	Clear policies and good auditable recordkeeping exist for certain events (ex tampering with water meters, illegal bypasses of customer meters); but other occurrences have limited oversight. Total consumption is a combination of volumes from formulae (time x typical flow) and subjective estimates of unconfirmed consumption.	Conditions between 8 and 10	Clear policies exist to identify all known unauthorized uses of water. Staff and procedures exist to provide enforcement of policies and detect violations. Each occurrence is recorded and quantified via formulae (estimated time running multiplied by typical flow) or similar methods. All records and calculations should exist in a form that can be audited by a third party.
Improvements to attain higher data grading for "Unauthorized Consumption" component:		to qualify for 5: Use accepted default of 0.25% of volume of water supplied. to qualify for 2: Review utility policy regarding what water uses are considered unauthorized, nod consider tracking a small sample of one such occurrence: unauthorized fire hydrant openings)	to <u>quality for 5:</u> Use accepted default of 0.25% of s <u>to quality for 4:</u> Review utility polcy regarding whi considered unauthorized, and consi sample of one such occurrence (e hydrant openings	at water uses are der tracking a small x: unauthorized fire	to qualify for 5: Utilize accepted default value of 0.25% of volume of water suppled as an expedient means to gain a reasonable quantification of all such use. This is particularly appropriate for water utilities who are in the early stages of the water auditing process.	to qualify for 6 or. greater: Finalize policy updates to clearly identify the types of water consumption that are consumption that are authorized from those usages that fall outside of this policy and are, therefore, unauthorized. Begin to conduct regular field checks. Proceed if the top-down audit already exists and/or a great volume of such use is suspected.	to quality for 8: Assess water utility policies to ensi occurrences of unauthorized consumpt that appropriate penalities are preser procedures for detection and docum occurrences of unauthorized consur uncovered.	ion are outlawed, and bed. Create written rentation of various	to qualify for 10 Refine written procedures and assign occurrences of unauthorized consu locking devices, monitors and other te locking devices, monitors and other detect and thwart unauthorize	a staff to seek out likely mption. Explore new echnologies designed to	to maintain 10: Continue to refine policy and procedures to eliminate any loopholes that allow or lacitly encourage unauthorized consumption. Continue to be vigilant in detection, documentation and enforcement efforts.
Customer metering inaccuracies:	select n/a only if the entire customer population is unmetered. In such a case the volume entered must be zero.	Customer meters exist, but with unorganized paper records on meters; no meter accuracy testing or meter replacement program for any size of retail meter. Metering workflow is driven chaoticably with no proactive management. Loss volume due to aggregate meter inaccuracy is guesstimated.	Poor recordkeeping and meter oversight is recognized by water utility management who has allotted staff and funding resources to organize improved recordkeeping and start meter accuracy testing. Existing paper records gathered and organized to provide cursory disposition of meter population. Customer meters are tested for accuracy only upon customer request.	Conditions between 2 and 4	Reliable recordkeeping exists, meter information is improving as meters are replaced. Meter accuracy testing is conducted annually for a smail number of meters (more than just customer requests, but less than % of inventory. A limited number of the oldest meters are replaced each year. Inaccuracy volume is largely an estimate, but refined based upon limited testing data.	4 and 6	A reliable electronic record/keeping system for meters exists. The meter population includes a mix of new high performing meters and dated meters with suspect accuracy. Routine, but limited, meter accuracy testing and meter replacement occur. Inaccuracy volume is quantified using a mix of reliable and less certain data.		Ongoing meter replacement and accuracy testing result in highly accurate customer meter population. Testing is conducted on samples of meters of varying age and accurduted volume of throughput to determine optimum replacement time for various types of meters.	Ongoing meter replacement and accuracy testing result in highly accurate ustomer meter population. Statistically significant number of meters are tested in audit year. This testing is conducted on samples of meters of varying age and accumulated volume of throughput to determine optimum replacement time for these meters.	Good records of all active customer meters exist and include as a minimum: meter number, account number/location, type, size and manufacturer. Ongoing meter replacement occurs according to a targeted and justified basis. Regular meter accuracy testing gives a reliable measure of composite inaccuracy volume for the customer meter population. New metering technology is embraced to keep overall accuracy a third party knowledgeable in the M36 methodology.
Improvements to attain higher data grading for "Customer meter inaccuracy volume" component:	If n/a is selected because the customer meter population is unmetered, consider establishing a new policy to meter the customer population and employ water rates based upon metered volumes.	to qualify for 2: Gather available meter purchase records. Conduct testing on a small number of meters believed to be the most inaccurate. Review staffing needs of the metering group and budget for necessary resources to better organize meter management.	to qualify for 4: Implement a reliable record keeping meter histories, preferably using e typically linked to, or part of, the Cus or Customer Information System. Ex testing to a larger group c	electronic methods tomer Billing System pand meter accuracy	to quality for 6; Standardize the procedures for mete an electronic information system. Acc testing and meter replacements guik	r recordkeeping within elerate meter accuracy	to qualify for 8: Expand annual meter accuracy tes statistically significant number of me Expand meter replacement program t significant number of poor performing	ter makes/models. o replace statistically	to qualify for 9: Continue efforts to manage meter population with reliable recordkeeping. Test a statistically significant number of meters each year and analyze test results in an ongoing mamer to serve as a basis for a target meter replacement strategy based upon accumulated volume throughput.	to qualify for 10: Continue efforts to manage meter population with reliable recordkeeping, meter testing and replacement. Evaluate new meter types and install one or more accounts each year in order to pilot improving metering technology.	to maintain 10: Increase the number of meters tested and replaced as justified by meter accuracy test data. Continually monitor development of new metering technology and Advanced Metering infrastructure (AMI) to grasp opportunities for greater accuracy in metering of water flow and management of customer consumption data.

Grading >>>	n/a	1	2	3	4	5	6	7	8	9	10
Systematic Data Handling Errors:	Note: all water utilities incur some amount of this error. Even in water utilities with unmetered ustomer populations and fixed rate billing, errors occur in amuua billing tabulations. Enter a positive value for the volume and select a grading.	Policies and procedures for activation of new customer water billing accounts are vague and lack accountability. Billing data is maintained on paper records which are not well organized. No auditing is conducted to confirm billing data handling efficiency. An unknown number of customers escape routine billing due to lack of billing process oversight.	Policy and procedures for activation of new customer accounts and oversight of billing records exist but need refinement. Billing data is maintained on paper records or insufficiently capable electronic database. Only periodic unstructured auditing work is conducted to confirm billing data handling efficiency. The volume of unbilled water due to billing lapses is a guess.	Conditions between 2 and 4	Policy and procedures for new account activation and oversight of billing operations exist but needs refinement. Computerized billing system exists, but is dated on lacks needed functionality. Periodic, limited internal audits conducted and confirm with approximate accuracy the consumption volumes lost to billing lapses.	Conditions between 4 and 6	Policy and procedures for new account activation and oversight of billing operations is adequate and reviewed periodically. Computerized billing system is in use with basic reporting available. Any effect of billing adjustments on measured consumption volumes is well understood. Internal checks of billing data error conducted annually. Reasonably accurate quantification of consumption volume lost to billing lapses is obtained.	Conditions between 6 and 8	New account activation and billing operations policy and procedures are reviewed at least biannually. Computerized billing system includes an array of reports to confirm billing data and system functionality. Checks are conducted routinely to flag and explain zero consumption accounts. Annual internal checks conducted with third party audit conducted with third party audit conducted with third party everas. Accountability once every five years. Accountability onchecks flag billing lapses is Consumption lost to billing lapses is well quantified and reducing year-by- year.	Conditions between 8 and 10	Sound written policy and procedures exist for new account activation and oversight of customer billing operations. Robust computerized billing system gives high functionality and reporting capabilities which are utilized, analyzed and the results reported each billing cycle. Assessment of policy and data handling errors are conducted internally and audited by hird party at least once every three years, ensuring consumption bots to billing lapses is minimized and detected as it occurs.
Improvements to attain higher data grading for "Systematic Data Handling Error volume" component:		to qualify for 2: Draft written policy and procedures for activating new water billing accounts and oversight of billing operations. Investigate and budget for computerized customer billing system. Conduct initial audit of billing records by flow-charting the basic business processes of the customer account/billing function.	to qualify for 4: Finalize written policy and procedures billing acocunts and overall billing oper Implement a computerized custom Conduct initial audit of billing recor process.	ations management. er billing system.	to qualify for 6: Refine new account activation an procedures and ensure consistency regarding billing, and minimize opport. Upgrade or replace customer billing adjust functionality – ensure that billing adjust value of consumption volumes. Proc audit process.	v with the utility policy unity for missed billings. g system for needed ments don't corrupt the edurize internal annual	to qualify for 8: Formalize regular review of new accou and general billing practices. Enhance computerized billing system. Formal process to reveal scope of data hand periodic third party audit to occur at le years.	reporting capability of ize regular auditing lling error. Plan for	to qualify for 10 Close policy/procedure loopholes tha accounts to go unbilled, or data har Ensure that billing system reports are reported every billing cycle. Ensure tha audits are conducted at least once	t allow some customer adling errors to exist. utilized, analyzed and t internal and third party	to maintain 10: Stay abreast of customer information management developments and innovations. Monitor developments of Advanced Metering Infrastructure (AMI) and integrate technology to ensure that customer endpoint information is well- monitored and errors/lapses are at an economic minimum.
					SYSTEM	DATA	1	-			
Length of mains:		Poorly assembled and maintained paper as-built records of existing water main installations makes accurate determination of system pipe length impossible. Length of mains is guesstimated.	Paper records in poor or uncertain condition (no annual tracking of installations & abandomments). Poor procedures to ensure that new water mains installed by developers are accurately documented.	Conditions between 2 and 4	Sound written policy and procedures exist for documenting new water main installations, but gaps in management result in a uncertain degree of error in tabulation of mains length.	Conditions between 4 and 6	Sound written policy and procedures exist for permitting and commissioning new water mains. Highly accurate paper records with regular field validation, or electronic records and asset management system in good condition. Includes system backup.	Conditions between 6 and 8	Sound written policy and procedures exist for permitting and commissioning new water mains. Electronic recordkeeping such as a Geographical Information System (GIS) and asset management system are used to store and manage data.	Conditions between 8 and 10	Sound written policy exists for managing water mains extensions and replacements. Geographic Information System (GIS) data and asset management database agree and random field validation porves truth of databases. Records of annual field validation should be available for review.
Improvements to attain higher data grading for "Length of Water Mains" component:		to qualify for 2: Assign personnel to inventory current as-built records and compare with customer billing system records and highway plans in order to verify poorly documented pipelines. Assemble policy document regarding permitting and document agrading partiting installations by the utility and building developers: identify gaps in procedures that result in poor documentation of new water main installations.	installations for several years prior to policy and procedures for commission	indext indext		m (GIS) and asset Id verification of data.	to maintain 10: Continue with standardization and random field validation to improve the completeness and accuracy of the system.				
Number of active AND inactive service connections:		Vague permitting (of new service connections) policy and poor paper recordkeeping of customer connections/billings result in suspect determination of the number of service connections, which may be 10-15% in error from actual count.	General permitting policy exists but paper records, procedural gaps, and weak oversight result in questionable total for number of connections, which may vary 5-10% of actual count.	Conditions between 2 and 4	Written account activation policy and procedures exist, but with some gaps in performance and oversight. Computerized information management system is being brought online to replace dated paper recordkeeping system. Reasonably accurate tracking of service connection installations & abandonments; but count can be up to 5% in error from actual total.	Conditions between	Written new account activation and overal billing policies and procedures are adequate and reviewed periodically. Computerized information management system is in use with annual installations & abandonments totaled. Very initied field verifications and audits. Error in count of number of service connections is believed to be no more than 3%.	6 and 8	Policies and procedures for new account activation and overall billing operations are written, well-structured and reviewed at least biannually. Well- managed computerized information management system exists and routine, periodic field checks and internal system audits are conducted. Counts of connections are no more than 2% in error.	Conditions between 8 and 10	Sound written policy and well managed and audited procedures ensure reliable management of service connection population. Computerized information management system, Cusbomer Billing System (GIS) information agree; field validation proves truth of databases. Count of connections recorded as being in error is less than 1% of the entire population.
Improvements to attain higher data grading for "Number of Active and Inactive Service Connections" component:	Note: The number of Service Connections does <u>not</u> include fire hydrant leads/lines connecting the hydrant to the water main	to qualify for 2: Draft new policy and procedures for new account activation and overall billing operations. Research and collect paper records of installations & abandonments for several years prior to audit year.	to qualify for 4: Refine policy and procedures for new and overall billing operations. Rese, recordkeeping system (Customer Infi Customer Billing System) to improve d for service connectio	arch computerized ormation System or ocumentation format	to qualify for 6: Refine procedures to ensure consist activation and over and biling policy to connections or decommission existing process to include all totals for at le audit year.	establish new service connections. Improve	to qualify for 8: Formalize regular review of new acco overall billing operations policies and p random field checks of limited number reports and auditing mechanisms f information management:	orocedures. Launch of locations. Develop or computerized	to qualify for 10 Close any procedural loopholes that a undocumented. Link computerized inf system with Geographic Informatio formalize field inspection and inform processes. Documentation of new or d connections encounters several levels of	allow installations to go cormation management in System (GIS) and ation system auditing lecommissioned service	to maintain 10: Continue with standardization and random field validation to improve knowledge of system.
	Note: if customer water	Gradings 1-9 apply if customer prop cases the average distance betwee	erties are unmetered, if customer mete n the curb stop or boundary separating	rs exist and are locate utility/customer response	ed inside the customer building premise nsibility for service connection piping, a quantify this value. (See the '	and the typical first point	owns and is responsible for the entire set t of use (ex: faucet) or the customer mete agram" worksheet)	rvice connection pipin er must be quantified.	g from the water main to the customer b Gradings of 1-9 are used to grade the v	uilding. In any of these validity of the means to	Either of two conditions can be met for a grading of 10:

Grading >>>	n/a	1	2	3	4	5	6	7	8	9	10
Average length of customer service line:	meters are located outside of the customer building met to the curb stop or boundary separating uitility/customer responsibility, then the audior should answer "Yes" to the question on the Reporting Workstenet asking about this. If the answer is Yes, the grading description lated under the Grading of 10(a) will be Grading of 10(a) will be a to Grading of 10. See the Service Connection Diagram worksheet for a visual presentation of this distance.	Vague policy exists to define the delineation of water utility ownership and customer ownership of the service connection piping. Curb stops are perceived as the break point but these have not been well-maintained or documented. Most are buried or obscured. Their location varies widely from alte-to- site, and estimating this distance is arbitrary due to the unknown location of many curb stops.	Policy requires that the curb stop serves as the delineation point between water utility ownership and customer ownership of the service connection piping. The piping from the water main to the curb stop is the property of the water utility, and the piping from the curb stop to the customer building is owned by the customer building is owned by the average distance is based upon a limited number of locations measured in the field.		Good policy requires that the curb stop serves as the delineation point between water utility ownership and customer ownership of the service connection piping. Curb stops are generally instaled as needed and are reasonably documented. Their location varies widely from site-to- site, and an estimate of this distance is hindered by the availability of paper records of limited accuracy.	Conditions between 4 and 6	Clear written policy exists to define utility/customer responsibility for service connection piping. Accurate, well-maintained paper or basic electronic recordreeping system exists. Periodic field checks confirm piping lengths for a sample of customer properties.	Conditions between 6 and 8	Clearly worded policy standardizes the location of curb stops and meters, which are inspected upon installation. Accurate and well maintained electronic records exist with periodic field checks to confirm locations of service lines, curb stops and customer meter pils. An accurate number of customer properties from the customer billing system allows for reliable averaging of this length.	Conditions between 8 and 10	a) Customer water meters exist outside of customer buildings next to the curb stop or boundary separating utility/customer responsibility for service connection piping. If so, answer "Yes" to the question on the Reporting Working asking about this condition. A value of zero and a Grading of 10 are automatically entered in the Reporting Worksheet. b). Meters exist inside customer buildings, or properties are unmetered. In either case, answer "No" to the Reporting Worksheet question on meter location, and enter a distance determined by the auditor. For a Grading of 10 this value must be a very reliable number from a Geographic Information System (GIS) and confirmed by a statistically valid number of field checks.
Improvements to attain higher data grading for "Average Length of Customer Service Line" component:		to qualify for 2: Research and collect paper records of service line installations. Inspect several sites in the field using pipe locators to locate curb stops. Obtain the length of this small sample of connections in this manner.	to qualify for 4: Formalize and communicate pr utility/customer responsibilities for : piping. Assess accuracy of pape inspection of a small sample of servic pipe locators as needed. Research II to a computerized information man to a computerized information man	service connection r records by field ce connections using he potential migration agement system to	to qualify for 6 Establish coherent procedures to ens stop, meter installation and documen consensus within the water utility for computerized information mana	sure that policy for curb tation is followed. Gain the establishment of a	to qualify for 8: Implement an electronic means of rec via a customer information system, cus or Geographic Information System (CI process to conduct field checks of a locations.	stomer billing system, IS). Standardize the	to qualify for 10 Link customer information manag Geographic Information System (GIS), field verification of d	ement system and standardize process for	to maintain 10: Continue with standardization and random field validation to improve knowledge of service connection configurations and customer meter locations.
Average operating pressure:		Available records are poorly assembled and maintained paper records of supply pump characteristics and water distribution system operating conditions. Average pressure is guesstimated based upon this information and ground elevations from crude topographical maps. Widely varying distribution system pressures due to undulating terrain, high system head loss and wack/erraiter pressure controls further compromise the validity of the average pressure calculation.	Limited telemetry monitoring of scattered pumping station and water storage tank sites provides some static preseure data, which is recorded in handwritten logbooks. Pressure data is gathered at individual sites only when low pressure compaints arise. Average pressure is determined by averaging relatively corde data, and is affected by significant variation in ground elevations, system head loss and distribution system.		Effective pressure controls separate different pressure zones; moderate pressure variation across the system, occasional open boundary valves are discovered that breech pressure zones. Basic telemetry monitorig of the distribution system log pressure data electronicaly. Pressure data gathered by gauges or datalogers at fire hydratts or buildings when low pressure complaints arise, and during fire flow telss to buildings when low pressure complaints arise, and during fire flow telss and system flushing. Reliable topographical data exists. Average presure is calculated using this mix of data.	Conditions between 4 and 6	Reliable pressure controls separate distinct pressure zones; only very occasional open boundary valves are encountered that breech pressure zones. Well-covered telementry monitoring of the distribution system (nd just pumping at source treatment parts or wells) logs extensive pressure data electronicaly. Pressure gathered by gauges/datologers at fire hydrants and buildings when low pressure complaints arise, and during fire flow tests and system flushing. Average pressure is determined by using this mix of reliable data.	6 and 8	Well-managed, discrete pressure zones exist with generally predictable pressure fluctuations. A current full- scale SCADA System or similar realitime monitoring system exists to monitor the water distribution system and collect data, including real time pressure readings at representative sites across the system. The average system pressure is determined from reliable monitoring system data.	Conditions between 8 and 10	Well-managed pressure districts/zones, SCADA System and hydraulic model exist to give very precise pressure data across the water distribution system. Average system pressure is reliably calculated from extensive, reliable, and cross-checked data. Calculations are reported on an annual basis as a minimum.
Improvements to attain higher data grading for "Average Operating Pressure" component:		to qualify for 2: Employ pressure gauging and/or datalogging equipment to obtain pressure measurements from fire hydrants. Locate accurate topographical maps of service area in order to confirm ground elevations. Research pump data sheets to find pump pressure/flow characteristics	to qualify for 4; Formalize a procedure to us gauging/datalogging equipment to g during various system events sud complaints, or operational testing. Gr and flow data at different flow regin pressure controls (pressure reduci valves, partially open boundary valves configure pressure zones. Make all these efforts available to generate sy pressure.	ather pressure data h as low pressure ather pump pressure nes. Identify faulty ing valves, altitude) and plan to properly pressure data from	to qualify for 6 Expand the use of pressure gauging? to gather scattered pressure data at sites, based upon pressure and flow data to determine each pressure zone or district. Corr controls (pressure reducing valves, a open boundary valves) to ensure pressure zones. Use expanded press activities to generate system-wide	datalogging equipment a representative set of ir areas. Utilize pump s supply head entering ect any faulty pressure altitude valves, partially properly configured sure dataset from these	to qualify for 8: Install a Supervisory Control and Data System, or similar realtime monitoring system parameters and control oper calibration schedule for instrumenta accuracy. Obtain accurate topograph pressue data gathered from field s extensive, reliable data for press	system, to monitor ations. Set regular tion to insure data nical data and utilize surveys to provide	to qualify for 10 Annually, obtain a system-wide avera- the hydraulic model of the distributior calibrated via field measurements in system and confirmed in comparison data.	ge pressure value from system that has been the water distribution	to maintain 10: Continue to refine the hydraulic model of the distribution system and consider linking it with SCADA System for real- time pressure data calibration, and averaging.

Grading >>>	n/a	1	2	3	4	5	6	7	8	9	10
	•				COST D	ATA		•	•	•	•
Total annual cost of operating water system:		Incomplete paper records and lack of financial accounting documentation on many operating functions makes calculation of water system operating costs a pure guessimate	Reasonably maintained, but incomplete, paper or electronic accounting provides data to estimate the major portion of water system operating costs.	Conditions between 2 and 4	Electronic, industry-standard cost accounting system in place. However, gaps in data are known to exist, periodic internal reviews are conducted but not a structured financial audit.	Conditions between 4 and 6	Reliable electronic, industry-standard cost accounting system in place, with all pertinent water system operating costs tracked. Data audited periodically by utility personnel, but not a Certified Public Accountant (CPA).	6 and 8	Reliable electronic, industry-standard cost accounting system in place, with all pertinent water system operating costs tracked. Data audited at least annually by utility personnel, and at least once every three years by third- party CPA.	Conditions between 8 and 10	Reliable electronic, industry-standard cost accounting system in place, with all pertinent water system operating costs tracked. Data audited annually by utility personnel and annually also by third- party CPA.
Improvements to attain higher data grading for "Total Annual Cost of Operating the Water System" component:		to qualify for 2: Gather available records, institute new financial accounting procedures to regularly collect and audit basic cost data of most important operations functions.	to qualify for 4: Implement an electronic cost acc structured according to accounting utilities		<u>to qualify for 6</u> Establish process for periodic interna operating costs; identify cost data procedures for tracking these o	gaps and institute	to qualify for 8: Standardize the process to conduct rou an annual basis. Arrange for CPA aud at least once every three	it of financial records	<u>to qualify for 10</u> Standardize the process to conduct a t by a CPA on an annue	hird-party financial audit	to maintain 10: Maintain program, stay abreast of expenses subject to erratic cost changes and long-term cost trend, and budget/track costs proactively
Customer retail unit cost (applied to Apparent Losses):	Customer population unmetered, and/or only a fixed fee is charged for consumption.	Antiquated, cumbersome water rate structure is used, with periodic historic amendments that were poorly documented and implemented; resulting in classes of customers being billed inconsistent charges. The actual composite billing rate likely differs significantly from the published water rate structure, but a lack of auditing leaves the degree of error indeterminate.	Dated, cumbersome water rate structure, not always employed consistently in actual billing operations. The actual billing billing rate is known to differ from the published water rate structure, and a reasonably accurate estimate of the degree of error is determined, allowing a composite billing rate to be quantified.	2 and 4	Straight-forward water rate structure in use, but not updated in several years. Billing operations reliably employ the rate structure. The composite billing rate is derived from a single customer class such as residential customer accounts, neglecting the effect of different rates from varying customer classes.	Conditions between 4 and 6	Clearly written, up-to-date water rate structure is in force and is applied reliably in billing operations. Composite customer rate is determined using a weighted average residential rate using volumes of water in each rate block.	Conditions between 6 and 8	Effective water rate structure is in force and is applied reliably in billing operations. Composite customer rate is determined using a weighted average composite consumption rate, which includes residential, commercial, industrial, institutional (CII), and any other distinct customer classes within the water rate structure.	Conditions between 8 and 10	Current, effective water rate structure is in force and applied reliably in billing operations. The rate structure and calculations of composite rate - which includes residential, commercial, industrial, institutional (CII), and other distinct customer classes - are reviewed by a third party knowledgeable in the M36 methodology at least once every five years.
Improvements to attain higher data grading for "Customer Retail Unit Cost" component:		to qualify for 2: Formalize the process to implement water rates, including a secure documentation procedure. Create a current, formal water rate document and gain approval from all stakeholders.	to quality for 4: Review the water rate structure and needed. Assess billing operations is billing operations incorporate the es structure.	o ensure that actual	to qualify for 6: Evaluate volume of water used in each usage block by residential users. Multiply volumes by full rate structure.		to qualify for 8: Evaluate volume of water used in each usage block by all classifications of users. Multiply volumes by full rate structure.		to <u>qualify for 10</u> : Conduct a periodic third-party audit of water used in each usage block by all classifications of users. Multiply volumes full rate structure.		to maintain 10: Keep water rate structure current in addressing the water utility's revenue needs. Update the calculation of the customer unit rate as new rate components, customer classes, or other components are modified.
Variable production cost (applied to Real Losses):	Note: if the water utility purchases/imports its entire water supply, then enter the unit purchase cost of the bulk water supply in the Reporting Worksheet with a grading of 10	Incomplete paper records and lack of documentation on primary operating functions (electric power and treatment costs most importantly) makes calculation of variable production costs a pure guesstimate	Reasonably maintained, but incomplete, paper or electronic accounting provides data to roughly estimate the basic operations costs (pumping power costs and treatment costs) and calculate a unit variable production cost.	Conditions between 2 and 4	Electronic, industry-standard cost accounting system in place. Electric power and treatment costs are reliably tracked and allow accurate weighted calculation of unit variable production costs based on these two inputs and water imported purchase costs (if applicable). All costs are audited internally on a periodic basis.	Conditions between 4 and 6	Reliable electronic, industry-standard cost accounting system in place, with all pertinent water system operating costs tracked. Pertinent additional costs beyond power, treatment and water imported purchase costs (if applicable) such as fability, residuals management, wear and tear on equipment, impending expansion of supply, are included in the unit variable production cost, as applicable. The data is audited at least annually by utility personnel.	Conditions between 6 and 8	Reliable electronic, industry-standard cost accounting system in place, with all pertinent primary and secondary variable production and water imported purchase (if applicable) costs tracked. The data is audited at least annual by utility personnel, and at least once every three years by a third-party knowledgeable in the M36 methodology.	Conditions between 8 and 10	Either of two conditions can be met to obtain a grading of 10: 1) Third party CPA audit of all pertinent primary and secondary variable production and water imported purchase (if applicable) costs on an annual basis. or: 2) Water supply is entirely purchased as buk water imported, and the unit purchase cost - including <u>all</u> applicable marginal supply costs - are not included in this figure, a grade of 10 should <u>not</u> be selected.
Improvements to attain higher data grading for "Variable Production Cost" component:		to qualify for 2: Gather available records, institute new procedures to regularly collect and audit basic cost data and most important operations functions.	to qualify for 4: Implement an electronic cost acc structured according to accounting : utilities		to qualify for 6: Formalize process for regular interm costs. Assess whether additional cc management, equipment wear, imp expansion) should be included to representative variable pro	sts (liability, residuals ending infrastructure calculate a more	to qualify for 8: Formalize the accounting process to components (power, treatment) as we components (licibility, residuals manage to conduct audits by a knowledgable thi every three years.	vell as indirect cost ement, etc.) Arrange ird-party at least once	<u>to qualify for 10</u> Standardize the process to conduct a I by a CPA on an annua	hird-party financial audit	to maintain 10: Maintain program, stay abreast of expenses subject to erratic cost changes and budget/track costs proactively



AWWA Free Water Audit Software: Customer Service Line Diagrams

WAS v5.0

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Average Length of Customer Service Line

The three figures shown on this worksheet display the assignment of the Average Length of Customer Service Line, Lp, for the three most common piping configurations.

Figure 1 shows the

configuration of the water meter outside of the customer building next to the curb stop valve. In this configuration Lp = 0 since the distance between the curb stop and the customer metering point is essentially zero.

Figure 2 shows the

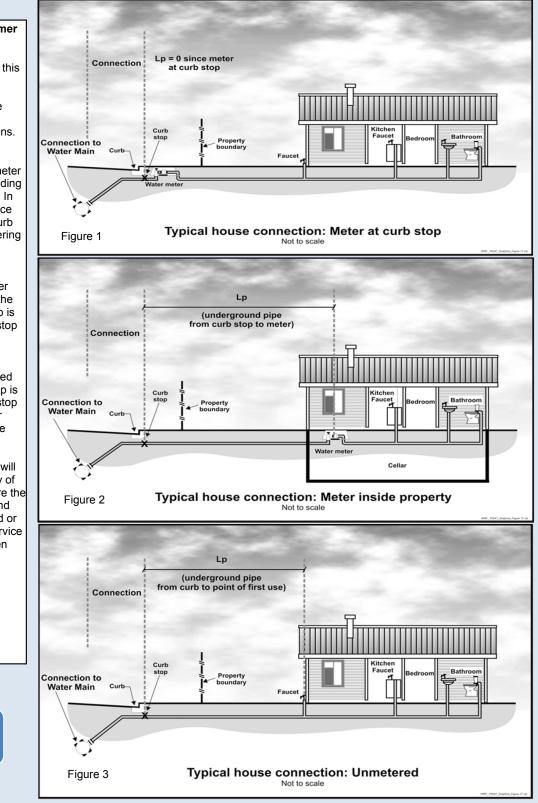
configuration of the customer water meter located inside the customer building, where Lp is the distance from the curb stop to the water meter.

Figure 3 shows the

configuration of an unmetered customer building, where Lp is the distance from the curb stop to the first point of customer water consumption, or, more simply, the building line.

In any water system the Lp will vary notably in a community of different structures, therefore the average Lp value is used and this should be approximated or calculated if a sample of service line measurements has been gathered.

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Item Name	Description
	= unauthorized consumption + customer metering inaccuracies + systematic data handling errors
Apparent Losses	Apparent Losses include all types of inaccuracies associated with customer metering (worn meters as well as improperly sized meters or wrong type of meter for the water usage profile) as well as systematic data handling errors (meter reading, billing, archiving and reporting), plus unauthorized consumption (theft or illegal use).
Find	NOTE: Over-estimation of Apparent Losses results in under-estimation of Real Losses. Under-estimation of Apparent Losses results in over-estimation of Real Losses.
	= billed water exported + billed metered + billed unmetered + unbilled metered + unbilled unmetered consumption
	The volume of metered and/or unmetered water taken by registered customers, the water utility's own uses, and uses of others who are implicitly or explicitly authorized to do so by the water utility; for residential, commercial, industrial and public-minded purposes.
	Typical retail customers' consumption is tabulated usually from established customer accounts as billed metered consumption, or - for unmetered customers - billed unmetered consumption. These types of consumption, along with billed water exported, provide revenue potential for the water utility. Be certain to tabulate the water exported volume as a separate component and do not "double-count" it by including in the billed metered consumption component as well as the water exported component.
Find	Unbilled authorized consumption occurs typically in non-account uses, including water for fire fighting and training, flushing of water mains and sewers, street cleaning, watering of municipal gardens, public fountains, or similar public-minded uses. Occasionally these uses may be metered and billed (or charged a flat fee), but usually they are unmetered and unbilled. In the latter case, the water auditor may use a default value to estimate this quantity, or implement procedures for the reliable quantification of these uses. This starts with documenting usage events as they occur and estimating the amount of water used in each event. (See Unbilled unmetered consumption)
View Service Connection Diagram	This is the average length of customer service line, Lp, that is owned and maintained by the customer; from the point of ownership transfer to the customer water meter, or building line (if unmetered). The quantity is one of the data inputs for the calculation of Unavoidable Annual Real Losses (UARL), which serves as the denominator of the performance indicator: Infrastructure Leakage Index (ILI). The value of Lp is multiplied by the number of customer service connections to obtain a total length of customer owned piping in the system. The purpose of this parameter is to account for the unmetered service line infrastructure that is the responsibility of the customer for arranging repairs of leaks that occur on their lines. In many cases leak repairs arranged by customers take longer to be executed than leak repairs arranged by the water utility on utility-maintained piping. Leaks run longer - and lose more water - on customer-owned service piping, than utility owned piping.
Average length of customer service line	If the customer water meter exists near the ownership transfer point (usually the curb stop located between the water main and the customer premises) this distance is zero because the meter and transfer point are the same. This is the often encountered configuration of customer water meters located in an underground meter box or "pit" outside of the customer's building. The Free Water Audit Software asks a "Yes/No" question about the meter at this location. If the auditor selects "Yes" then this distance is set to zero and the data grading score for this component is set to 10.
Find	If water meters are typically located inside the customer premise/building, or properties are unmetered, it is up to the water auditor to estimate a system-wide average Lp length based upon the various customer land parcel sizes and building locations in the service area. Lp will be a shorter length in areas of high density housing, and a longer length in areas of low density housing and varied commercial and industrial buildings. General parcel demographics should be employed to obtain a composite average Lp length for the entire system.
	Refer to the "Service Connection Diagram" worksheet for a depiction of the service line/metering configurations that typically exist in water utilities. This worksheet gives guidance on the determination of the Average Length, Lp, for each configuration.
Average operating pressure Find	This is the average pressure in the distribution system that is the subject of the water audit. Many water utilities have a calibrated hydraulic model of their water distribution system. For these utilities, the hydraulic model can be utilized to obtain a very accurate quantity of average pressure. In the absence of a hydraulic model, the average pressure may be approximated by obtaining readings of static water pressure from a representative sample of fire hydrants or other system access points evenly located across the system. A weighted average of the pressure can be assembled; but be sure to take into account the elevation of the fire hydrants, which typically exist several feet higher than the level of buried water pipelines. If the water utility is compiling the water audit for the first time, the average pressure can be approximated, but with a low data grading. In subsequent years of auditing, effort should be made to improve the accuracy of the average pressure quantity. This will then qualify the value for a higher data grading.
Billed Authorized Consumption	All consumption that is billed and authorized by the utility. This may include both metered and unmetered consumption. See "Authorized Consumption" for more information.
Billed metered consumption Find	All metered consumption which is billed to retail customers, including all groups of customers such as domestic, commercial, industrial or institutional. It does NOT include water supplied to neighboring utilities (water exported) which is metered and billed. Be sure to subtract any consumption for exported water sales that may be included in these billing roles. Water supplied as exports to neighboring water utilities should be included only in the Water Exported component. The metered consumption data can be taken directly from billing records for the water audit period. The accuracy of yearly metered consumption data can be refined by including an adjustment to account for customer meter reading lag time since not all customer meters are read on the same day of the meter reading period. However additional analysis is necessary to determine the lag time adjustment value, which may or may not be significant.
Billed unmetered consumption Find	All billed consumption which is calculated based on estimates or norms from water usage sites that have been determined <u>by utility policy</u> to be left unmetered. This is typically a very small component in systems that maintain a policy to meter their customer population. However, this quantity can be the key consumption component in utilities that have not adopted a universal metering policy. This component should NOT include any water that is supplied to neighboring utilities (water exported) which is unmetered but billed. Water supplied as exports to neighboring water utilities should be included only in the Water Exported component.

Item Name	Description
Customer metering	Apparent water losses caused by the collective under-registration of customer water meters. Many customer water meters gradually wear as large cumulative volumes of water are passed through them over time. This causes the meters to under-register the flow of water. This occurrence is common with smaller residential meters of sizes 5/8-inch and 3/4 inch after they have registered very large cumulative volumes of water, which generally occurs only after periods of years. For meters sized 1-inch and larger - typical of multi-unit residential, commercial and industrial accounts - meter under-registration can occur from wear or from the improper application of the meter; i.e. installing the wrong type of meter or the wrong size of meter, for the flow pattern (profile) of the consumer. For instance, many larger meters have reduced accuracy at low flows. If an oversized meter is installed, most of the time the routine flow will occur in the low flow range of the meter, and a significant portion of it may not be registered. It is important to properly select and install all meters, but particularly large customer meters, size 1-inch and larger.
inaccuracies Find	The auditor has two options for entering data for this component of the audit. The auditor can enter a percentage under-registration (typically an estimated value), this will apply the selected percentage to the two categories of metered consumption to determine the volume of water not recorded due to customer meter inaccuracy. Note that this percentage is a composite average inaccuracy for <u>all</u> customer meters in the entire meter population. The percentage will be multiplied by the sum of the volumes in the Billed Metered and Unbilled Metered components. Alternatively, if the auditor has substantial data from meter testing activities, he or she can calculate their own loss volumes, and this volume may be entered directly.
	of inaccuracy, a positive value should be entered. A value of zero in this component is valid only if the water utility does not meter its customer population.
Customer retail	The Customer Retail Unit Cost represents the charge that customers pay for water service. This unit cost is applied routinely to the components of Apparent Loss, since these losses represent water reaching customers but not (fully) paid for. Since most water utilities have a rate structure that includes a variety of different costs based upon class of customer, a weighted average of individual costs and number of customer accounts in each class can be calculated to determine a single composite cost that should be entered into this cell. Finally, the weighted average cost should also include additional charges for sewer, storm water or biosolids processing, but only if these charges are based upon the volume of potable water consumed.
Find	For water utilities in regions with limited water resources and a questionable ability to meet the drinking water demands in the future, the Customer Retail Unit Cost might also be applied to value the Real Losses; instead of applying the Variable Production Cost to Real Losses. In this way, it is assumed that every unit volume of leakage reduced by leakage management activities will be sold to a customer.
	Note: the Free Water Audit Software allows the user to select the units that are charged to customers (either \$/1,000 gallons, \$/hundred cubic feet, or \$/1,000 litres) and automatically converts these units to the units that appear in the "WATER SUPPLIED" box. The monetary units are United States dollars, \$.
Infrastructure Leakage Index (ILI) Find	The ratio of the Current Annual Real Losses (Real Losses) to the Unavoidable Annual Real Losses (UARL). The ILI is a highly effective performance indicator for comparing (benchmarking) the performance of utilities in operational management of real losses.
Length of mains	Length of all pipelines (except service connections) in the system starting from the point of system input metering (for example at the outlet of the treatment plant). It is also recommended to include in this measure the total length of fire hydrant lead pipe. Hydrant lead pipe is the pipe branching from the water main to the fire hydrant. Fire hydrant leads are typically of a sufficiently large size that is more representative of a pipeline than a service connection. The average length of hydrant leads across the entire system can be assumed if not known, and multiplied by the number of fire hydrants in the system, which can also be assumed if not known. This value can then be added to the total pipeline length. Total length of mains can therefore be calculated as:
	Length of Mains, miles = (total pipeline length, miles) + [{(average fire hydrant lead length, ft) x (number of fire hydrants)} / 5,280 ft/mile]
Find	or Length of Mains, kilometres = (total pipeline length, kilometres) + [{(average fire hydrant lead length, metres) x (number of fire hydrants)} / 1,000 metres/kilometre]
NON-REVENUE WATER Find	= Apparent Losses + Real Losses + Unbilled Metered Consumption + Unbilled Unmetered Consumption. This is water which does not provide revenue potential to the utility.
Number of <u>active</u> <u>AND inactive</u> service connections Find	Number of customer service connections, extending from the water main to supply water to a customer. Please note that this includes the actual number of distinct piping connections, including fire connections, whether active or inactive. This may differ substantially from the number of customers (or number of accounts). Note: this number does not include the pipeline leads to fire hydrants - the total length of piping supplying fire hyrants should be included in the "Length of mains" parameter.
Real Losses Find	Physical water losses from the pressurized system (water mains and customer service connections) and the utility's storage tanks, up to the point of customer consumption. In metered systems this is the customer meter, in unmetered situations this is the first point of consumption (stop tap/tap) within the property. The annual volume lost through all types of leaks, breaks and overflows depends on frequencies, flow rates, and average duration of individual leaks, breaks and overflows.
Revenue Water	Those components of System Input Volume that are billed and have the potential to produce revenue.
Service Connection Density Find	=number of customer service connections / length of mains

Item Name	Description
	Apparent losses caused by accounting omissions, errant computer programming, gaps in policy, procedure, and permitting/activation of new accounts; and any type of data lapse that results in under-stated customer water consumption in summary billing reports.
	Systematic Data Handling Errors result in a direct loss of revenue potential. Water utilities can find "lost" revenue by keying on this component.
	Utilities typically measure water consumption registered by water meters at customer premises. The meter should be read routinely (ex: monthly) and the data transferred to the Customer Billing System, which generates and sends a bill to the customer. Data Transfer Errors result in the consumption value being less than the actual consumption, creating an apparent loss. Such error might occur from illegible and mis-recorded hand-written readings compiled by meter readers, inputting an incorrect meter register unit conversion factor in the automatic meter reading equipment, or a variety of similar errors.
Systematic data handling errors	Apparent losses also occur from <u>Data Analysis Errors</u> in the archival and data reporting processes of the Customer Billing System. Inaccurate estimates used for accounts that fail to produce a meter reading are a common source of error. Billing adjustments may award customers a rightful monetary credit, but do so by creating a negative value of consumption, thus under-stating the actual consumption. Account activation lapses may allow new buildings to use water for months without meter readings and billing. Poor permitting and construction inspection practices can result in a new building lacking a billing account, a water meter and meter reading; i.e., the customer is unknown to the utility's billing system.
Find	Close auditing of the permitting, metering, meter reading, billing and reporting processes of the water consumption data trail can uncover data management gaps that create volumes of systematic data handling error. Utilities should routinely analyze customer billing records to detect data anomalies and quantify these losses. For example, a billing account that registers zero consumption for two or more billing cycles should be checked to explain why usage has seemingly halted. Given the revenue loss impacts of these losses, water utilities are well-justified in providing continuous oversight and timely correction of data transfer errors & data handling errors.
	If the water auditor has not yet gathered detailed data or assessment of systematic data handling error, it is recommended that the auditor apply the default value of 0.25% of the the Billed Authorized Consumption volume. However, if the auditor has investigated the billing system and its controls, and has well validated data that indicates the volume from systematic data handling error is substantially higher or lower than that generated by the default value, then the auditor should enter a quantity that was derived from the utility investigations and select an appropriate grading. Note: negative values are not allowed for this audit component. If the auditor enters zero for this component then a grading of 1 will be automatically assigned.
Total annual cost of operating the water system Find	These costs include those for operations, maintenance and any annually incurred costs for long-term upkeep of the drinking water supply and distribution system. It should include the costs of day-to-day upkeep and long-term financing such as repayment of capital bonds for infrastructure expansion or improvement. Typical costs include employee salaries and benefits, materials, equipment, insurance, fees, administrative costs and all other costs that exist to sustain the drinking water supply. Depending upon water utility accounting procedures or regulatory agency requirements, it may be appropriate to include depreciation in the total of this cost. This cost should not include any costs to operate wastewater, biosolids or other systems outside of drinking water.
Unauthorized consumption Find	Includes water illegally withdrawn from fire hydrants, illegal connections, bypasses to customer consumption meters, or tampering with metering or meter reading equipment; as well as any other ways to receive water while thwarting the water utility's ability to collect revenue for the water. Unauthorized consumption results in uncaptured revenue and creates an error that understates customer consumption. In most water utilities this volume is low and, if the water auditor has not yet gathered detailed data for these loss occurrences, it is recommended that the auditor apply a default value of 0.25% of the volume of water supplied. However, if the auditor has investigated unauthorized occurrences, and has well validated data that indicates the volume from unauthorized consumption. Note that a value of zero will not be accepted since all water utilities have some volume of unauthorized consumption occurring in their system.
	UARL (gallons)=(5.41Lm + 0.15Nc + 7.5Lc) xP, or UARL (litres)=(18.0Lm + 0.8Nc + 25.0Lc) xP where: Lm = length of mains (miles or kilometres) Nc = number of customer service connections Lp = the average distance of customer service connection piping (feet or metres) (see the Worksheet "Service Connection Diagram" for guidance on deterring the value of Lp) Lc = total length of customer service connection piping (miles or km) Lc = Nc X Lp (miles or kilometres)
Unavoidable Annual Real Losses (UARL) Find	P = Pressure (psi or metres) The UARL is a theoretical reference value representing the technical low limit of leakage that could be achieved if all of today's best technology could be successfully applied. It is a key variable in the calculation of the Infrastructure Leakage Index (ILI). Striving to reduce system leakage to a level close to the UARL is usually not needed unless the water supply is unusually expensive, scarce or both. NOTE: The UARL calculation has not yet been proven as fully valid for very small, or low pressure water distribution systems. If, in gallons:
	(Lm x 32) + Nc < 3000 or P <35psi <u>in litres:</u> (Lm x 20) + Nc < 3000 or P < 25m then the calculated UARL value may not be valid. The software does not display a value of UARL or ILI if either of these conditions is true.

Item Name	Description
Unbilled Authorized Consumption	All consumption that is unbilled, but still authorized by the utility. This includes Unbilled Metered Consumption + Unbilled Unmetered Consumption. See "Authorized Consumption" for more information. For Unbilled Unmetered Consumption, the Free Water Audit Software provides the auditor the option to select a default value if they have not audited unmetered activities in detail. The default calculates a volume that is 1.25% of the Water Supplied volume. If the auditor has carefully audited the various unbilled, unmetered, authorized uses of water, and has established reliable estimates of this collective volume, then he or she may enter the volume directly for this component, and not use the default value.
Unbilled metered consumption Find	Metered consumption which is authorized by the water utility, but, for any reason, is <u>deemed by utility policy</u> to be unbilled. This might for example include metered water consumed by the utility itself in treatment or distribution operations, or metered water provided to civic institutions free of charge. It does <u>not</u> include water supplied to neighboring utilities (water exported) which may be metered but not billed.
Unbilled unmetered consumption Find	Any kind of Authorized Consumption which is neither billed or metered. This component typically includes water used in activities such as fire fighting, flushing of water mains and sewers, street cleaning, fire flow tests conducted by the water utility, etc. In most water utilities it is a small component which is very often substantially overestimated. It does NOT include water supplied to neighboring utilities (water exported) which is unmetered and unbilled – an unlikely case. This component has many sub-components of water use which are often tedious to identify and quantify. Because of this, and the fact that it is usually a small portion of the water supplied, it is recommended that the auditor apply the default value, which is 1.25% of the Water Supplied volume. Select the default percentage to enter this value. If the water utility has carefully audited the unbilled, unmetered activities occurring in the system, and has well validated data that gives a value substantially higher or lower than the default volume, then the auditor should enter their own volume. However the default approach is recommended for most water utilities. Note that a value of zero is not permitted, since all water utilities have some volume of water in this component occurring in their system.
Units and Conversions	The user may develop an audit based on one of three unit selections: 1) Million Gallons (US) 2) Megalitres (Thousand Cubic Metres) 3) Acre-feet Once this selection has been made in the instructions sheet, all calculations are made on the basis of the chosen units. Should the user wish to make additional conversions, a unit converter is provided below (use drop down menus to select units from the yellow unit boxes): Enter Units: Convert From Enter Units: Convert From 1 Million Gallons (US) = 3.06888329 Acre-feet (conversion factor = 3.06888328973723)
Use of Option Buttons	To use the default percent value choose this button To enter a value choose this button and enter the value in the cell to the right Pcnt: Value: 1.25% • • • • • • • • • • • • • • • • • • •
Variable production cost (applied to Real Losses) Find	The cost to produce and supply the next unit of water (e.g., \$/million gallons). This cost is determined by calculating the summed unit costs for ground and surface water treatment and all power used for pumping from the source to the customer. It may also include other miscellaneous unit costs that apply to the production of drinking water. It should also include the unit cost of bulk water purchased as an import if applicable. It is common to apply this unit cost to the volume of Real Losses. However, if water resources are strained and the ability to meet future drinking water demands is in question, then the water auditor can be justified in applying the Customer Retail Rate to the Real Loss volume, rather than applying the Variable Production Cost. The Free Water Audit Software applies the Variable Production costs to Real Losses by default. However, the auditor has the option on the Reporting Worksheet to select the Customer Retail Cost as the basis for the Real Loss cost evaluation if the auditor determines that this is warranted.
Volume from own sources Find	The volume of water withdrawn (abstracted) from water resources (rivers, lakes, streams, wells, etc) controlled by the water utility, and then treated for potable water distribution. Most water audits are compiled for utility retail water distribution systems, so this volume should reflect the amount of <u>treated</u> drinking water that entered the distribution system. Often the volume of water measured at the effluent of the treatment works is slightly less than the volume measured at the raw water source, since some of the water is used in the treatment process. Thus, it is useful if flows are metered at the effluent of the treatment works. If metering exists only at the raw water source, an adjustment for water used in the treatment process should be included to account for water consumed in treatment operations such as filter backwashing, basin flushing and cleaning, etc. If the audit is conducted for a wholesale water agency that sells untreated water, then this quantity reflects the measure of the raw water, typically metered at the source.

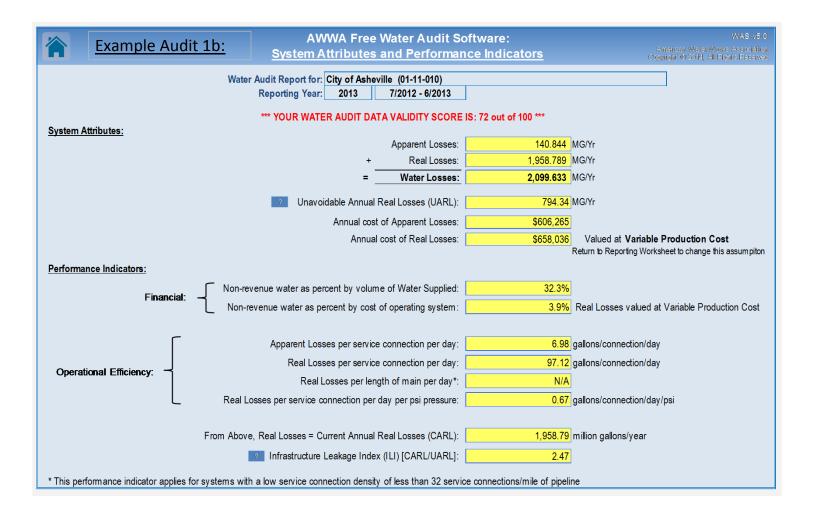
Item Name	Description
Volume from own sources: Master meter and supply error adjustment Find	An estimate or measure of the degree of inaccuracy that exists in the master (production) meters measuring the annual Volume from own Sources, and any error in the data trail that exists to collect, store and report the summary production data. This adjustment is a weighted average number that represents the collective error for all master meters for all days of the audit year and any errors identified in the data trail. Meter error can occur in different ways. A meter or meters may be inaccurate by under-registering flow (did not capture all the flow), or by over-registering flow (overstated the actual flow). Data error can occur due to data gaps caused by temporary outages of the meter or related instrumentation. All water utilities encounter some degree of inaccuracy in master meters and data errors in archival systems are common; thus a value of zero should <u>not</u> be entered. Enter a negative percentage or value for metered data under-registration; or, enter a positive percentage or value for metered data over-registration.
Water exported	The Water Exported volume is the bulk water conveyed and sold by the water utility to neighboring water systems that exists outside of their service area. Typically this water is metered at the custody transfer point of interconnection between the two water utilities. Usually the meter(s) are owned by the water utility that is selling the water: i.e. the exporter. If the water utility who is compiling the annual water audit sells bulk water in this manner, they are an exporter of water. Note: The Water Exported volume is sold to wholesale customers who are typically charged a wholesale rate that is different than retail rates charged to the retail customers existing within the service area. Many state regulatory agencies require that the Water Exported volume be reported to them as a quantity separate and distinct from the retail customer billed consumption. For these reasons - and others - the Water Exported volume is always quantified separately from Billed Authorized Consumption in the standard water audit. Be certain not to "double-count" this quantity by including it in both the Water Exported box and the Billed Metered Consumption box of the water audit Reporting Worksheet. This volume should be included only in the Water Exported box.
Water exported: Master meter and supply error adjustment Find	An estimate or measure of the volume in which the Water Exported volume is incorrect. This adjustment is a weighted average that represents the collective error for all of the metered and archived exported flow for all days of the audit year. Meter error can occur in different ways. A meter may be inaccurate by under-registering flow (did not capture all the flow), or by over-registering flow (overstated the actual flow). Error in the metered, archived data can also occur due to data gaps caused by temporary outages of the meter or related instrumentation. All water utilities encounter some degree of error in their metered data, particularly if meters are aged and infrequently tested. Occasional errors also occur in the archived data. Thus, a value of zero should <u>not</u> be entered. Enter a negative percentage or value for metered data under-registration; or enter a positive percentage or value for metered data over-registration. If regular meter accuracy testing is conducted on the meter(s) - which is usually conducted by the water utility selling the water - then the results of this testing can be used to help quantify the meter error adjustment. Corrections to data gaps or other errors found in the archived data should also be included as a portion of this meter error adjustment.
Water imported Find	The Water Imported volume is the bulk water purchased to become part of the Water Supplied volume. Typically this is water purchased from a neighboring water utility or regional water authority, and is metered at the custody transfer point of interconnection between the two water utilities. Usually the meter(s) are owned by the water supplier selling the water to the utility conducting the water audit. The water supplier selling the bulk water usually charges the receiving utility based upon a wholesale water rate.
Water imported: Master meter and supply error adjustment Find	An estimate or measure of the volume in which the Water Imported volume is incorrect. This adjustment is a weighted average that represents the collective error for all of the metered and archived imported flow for all days of the audit year. Meter error can occur in different ways. A meter may be inaccurate by under-registering flow (did not capture all the flow), or by over-registering flow (overstated the actual flow). Error in the metered, archived data can also occur due to data gaps caused by temporary outages of the meter or related instrumentation. All water utilities encounter some level of meter inaccuracy, particularly if meters are aged and infrequently tested. Occasional errors also occur in the archived metered data. Thus, a value of zero should <u>not</u> be entered. Enter a negative percentage or value for metered data under-registration; or, enter a positive percentage or value for metered data over-registration. If regular meter accuracy testing is conducted on the meter(s) - which is usually conducted by the water utility selling the water - then the results of this testing can be used to help quantify the meter error adjustment.
WATER LOSSES	= apparent losses + real losses Water Losses are the difference between Water Supplied and Authorized Consumption. Water losses can be considered as a total volume for the whole system, or for partial systems such as transmission systems, pressure zones or district metered areas (DMA); if one of these configurations are the basis of the water audit.

Water Audit Report for: Jurupa Community Services District (CA3310021) Reporting Year: 2015 Data Validity Score: 65								
	Water Loss Control Planning Guide							
		Water A	Audit Data Validity Level	/ Score				
Functional Focus Area	Level I (0-25)	Level II (26-50)	Level III (51-70)	Level IV (71-90)	Level V (91-100)			
Audit Data Collection	Launch auditing and loss control team; address production metering deficiencies	Analyze business process for customer metering and billing functions and water supply operations. Identify data gaps.	Establish/revise policies and procedures for data collection	Refine data collection practices and establish as routine business process	Annual water audit is a reliabl gauge of year-to-year water efficiency standing			
Short-term loss control	Research information on leak detection programs. Begin flowcharting analysis of customer billing system	Conduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey, unauthorized consumption, etc.	Establish ongoing mechanisms for customer meter accuracy testing, active leakage control and infrastructure monitoring	Refine, enhance or expand ongoing programs based upon economic justification	Stay abreast of improvements metering, meter reading, billin leakage management and infrastructure rehabilitation			
_ong-term loss control		Begin to assess long-term needs requiring large expenditure: customer meter replacement, water main replacement program, new customer billing system or Automatic Meter Reading (AMR) system.	Begin to assemble economic business case for long-term needs based upon improved data becoming available through the water audit process.	Conduct detailed planning, budgeting and launch of comprehensive improvements for metering, billing or infrastructure management	Continue incremental improvements in short-term a long-term loss control interventions			
Target-setting			Establish long-term apparent and real loss reduction goals (+10 year horizon)	Establish mid-range (5 year horizon) apparent and real loss reduction goals	Evaluate and refine loss cont goals on a yearly basis			
Benchmarking			Preliminary Comparisons - can begin to rely upon the Infrastructure Leakage Index (ILI) for performance comparisons for real losses (see below table)	Performance Benchmarking - ILI is meaningful in comparing real loss standing	Identify Best Practices/ Best class - the ILI is very reliable a real loss performance indicat for best in class service			

Once data have been entered into the Reporting Worksheet, the performance indicators are automatically calculated. How does a water utility operator know how well his or her system is performing? The AWWA Water Loss Control Committee provided the following table to assist water utilities is gauging an approximate Infrastructure Leakage Index (ILI) that is appropriate for their water system and local conditions. The lower the amount of leakage and real losses that exist in the system, then the lower the ILI value will be.

<u>Note:</u> this table offers an approximate guideline for leakage reduction target-setting. The best means of setting such targets include performing an economic assessment of various loss control methods. However, this table is useful if such an assessment is not possible.

General Guidelines for Setting a Target ILI (without doing a full economic analysis of leakage control options)					
Target ILI Range	Financial Considerations	Operational Considerations	Water Resources Considerations		
1.0 - 3.0	greatly limited because of regulation or low	Operating with system leakage above this level would require expansion of existing infrastructure and/or additional water resources to meet the demand.	Available resources are greatly limited and are very difficult and/or environmentally unsound to develop.		
>3.0 -5.0	at reasonable expense; periodic water rate increases can be feasibly imposed and are	Existing water supply infrastructure capability is sufficient to meet long-term demand as long as reasonable leakage management controls are in place.	Water resources are believed to be sufficient to meet long-term needs, but demand management interventions (leakage management, water conservation) are included in the long-term		
>5.0 - 8.0	Cost to purchase or obtain/treat water is low, as are rates charged to customers.	Superior reliability, capacity and integrity of the water supply infrastructure make it relatively immune to supply shortages.	Water resources are plentiful, reliable, and easily extracted.		
Greater than 8.0	Although operational and financial considerations may allow a long-term ILI greater than 8.0, such a level of leakage is not an effective utilization of waterGreater than 8.0Although operational and financial considerations may allow a long-term ILI greater than 8.0, such a level of leakage is not an effective utilization of wateras a resource.Setting a target level greater than 8.0 - other than as an incremental goal to a smaller long-term target - is discouraged.				
Less than 1.0 If the calculated Infrastructure Leakage Index (ILI) value for your system is 1.0 or less, two possibilities exist. a) you are maintaining your leakage at low levels in a class with the top worldwide performers in leakage control. b) A portion of your data may be flawed, causing your losses to be greatly understated. This is likely if you calculate a low ILI value but do not employ extensive leakage control practices in your operations. In such cases it is beneficial to validate the data by performing field measurements to confirm the accuracy of production and customer meters, or to identify any other potential sources of error in the data.					
	ľ				



	WWA Free Water Audit So	oftware:	WAS v5.0
Example Audit 2a:	Reporting Workshee	<u>et</u>	American Water Works Association Copyright @2014, All Rights Reserved
Click to access definition Water Audit Report for: Click to add a comment Reporting Year:			
Please enter data in the white cells below. Where available, metered values s	should be used; if metered values are una		
the input data by grading each component (n/a or 1-10) using the drop-down All volumes to be	list to the left of the input cell. Hover the n entered as: MEGALITRES (THOUSA		· · · · · · · · · · · · · · · · · · ·
To select the correct data grading for each input the utility meets or exceeds all criteria f		Maa	ter Mater Freez Adiustrasite
WATER SUPPLIED		in column 'E' and 'J'>	PcntValue:
Volume from own sources: Water imported:			1.00% ● ○ ML/Yr ● ○ ML/Yr
Water exported:	: + ? 7 8,190.131		1.00% O ML/Yr regative % or value for under-registration
WATER SUPPLIED:	164,488.979		r positive % or value for over-registration
AUTHORIZED CONSUMPTION Billed metered:		ML/Yr	Click here: 🧧 🥐
Billed unmetered: Unbilled metered:			buttons below Pcnt Value:
Unbilled unmetered:			● 1,444.000 ML/Yr
AUTHORIZED CONSUMPTION:	: 7 130,224.811	ML/Yr	Use buttons to select percentage of water supplied
WATER LOSSES (Water Supplied - Authorized Consumption)	34,264.168	ML/Yr	OR value
Apparent Losses		NII 0/-	Pcnt ▼ Value:
Unauthorized consumption: Default option selected for unauthorized con			0.25% • O ML/Yr
Customer metering inaccuracies:		ML/Yr	1.00% • O ML/Yr
Systematic data handling errors: Default option selected for Systematic da			0.25% • O ML/Yr
Apparent Losses:			
Real Losses (Current Annual Real Losses or CARL)			
Real Losses = Water Losses - Apparent Losses			
WATER LOSSES:	34,264.168	ML/Yr	
NON-REVENUE WATER NON-REVENUE WATER:	35,874.325	ML/Yr	
= Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA			
Length of mains:		kilometers	
Number of <u>active AND inactive</u> service connections: Service connection density:		conn./km main	
Are customer meters typically located at the curbstop or property line?	No	(length of service line, bey	and the property
<u>Average</u> length of customer service line:	* * ? 8 12.0	metres boundary, that is the respo	
Average operating pressure:	: + ? 8 50.8	metres (head)	
COST DATA			
Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses):		\$/Year \$/1000 litres	
Variable production cost (applied to Real Losses):			Retail Unit Cost to value real losses
WATER AUDIT DATA VALIDITY SCORE:			
*	** YOUR SCORE IS: 72 out of 100 **	*	
A weighted scale for the components of const	umption and water loss is included in the cal	culation of the Water Audit Data Validit	y Score
PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can be improved by addressin	a the following componente:		
1: Volume from own sources	g are knowing components.		
2: Billed metered			
3: Customer metering inaccuracies]		

Example Audit 2b:	AWWA Free W System Attributes ar			WAS v5.0 Amonom Wellor Works Association Geographi 49 0016, All Helphis Research
Wate	er Audit Report for: The City of Calg Reporting Year: 2013 1	gary 1/2013 - 12/2013		
System Attributes:	*** YOUR WATER AUDIT DATA	VALIDITY SCORE	IS: 72 out of 100 ***	
System Aundules.		Apparent Losses:	1,989.429	ML/Yr
	+	Real Losses:	32,274.739	ML/Yr
	=	Water Losses:	34,264.168	ML/Yr
	Unavoidable Annual Rea	al Losses (UARL):	8,015.57	ML/Yr
	Annual cost of	Apparent Losses:	\$4,675,159	
	Annual cos	st of Real Losses:	\$75,845,637	Valued at Customer Retail Unit Cost
.				Return to Reporting Worksheet to change this assumption
Performance Indicators:				
Financial:	evenue water as percent by volume o revenue water as percent by cost of o	of Water Supplied:	21.8%	
_ Non-	revenue water as percent by cost of o	operating system:	49.6%	Real Losses valued at Customer Retail Unit Cost
Γ	Apparent Losses per service co	onnection per day:	17.47	litres/connection/day
	Real Losses per service co	onnection per day:	283.34	litres/connection/day
Operational Efficiency:	Real Losses per length	of main per day*:	N/A	
Real Losses per	service connection per day per mete	er (head) pressure:	5.58	litres/connection/day/m
				
From Abov	re, Real Losses = Current Annual Rea	al Losses (CARL):	32,274.74	ML/year
	Infrastructure Leakage Index (IL	LI) [CARL/UARL]:	4.03	
* This performance indicator applies for systems wit	h a low service connection density of	f less than 20 servio	e connections/kilometre of	pipeline

	www.awwa.org	AWWA Free Water Audit Software: <u>Acknowledgements</u>	WAS v5.0 American Water Works Association. Copyright © 2014, All Rights Reserved.
AWWA V	Water Audit Software Versio	n 5.0 Developed by the Water Loss Control Committe Association August, 2014	ee of the American Water Works
	tion of the AWWA M36 Publication	ool to compile a preliminary, or "top-down", water audit. It is renning to compile a preliminary, or "top-down", water audit. It is renning the same water audit methodology.	
DEVELOPED BY	Y: Andrew Chastain-Howley, PG*, Will J. Jernigan, P.E. Cavanau George Kunkel, P.E. Philadelp Alain Lalonde, P.Eng. Master I Ralph Y. McCord, P.E. Louisvi David A. Sayers Delaware Riv Brian M. Skeens, P.E. CH2M I Reinhard Sturm Water System John H. Van Arsdel M.E. Simp	igh & Associates, P.A. hia Water Department Meter Canada Inc. ille Water Company er Basin Commission HILL hs Optimization, Inc.	
<u>REFERENCES:</u>	Best Practice' Series, 2000. - Kunkel, G. et al, 2003. Wat Control. Journal AWWA, 95: - AWWA Water Audits and Lo	er Loss Control Committee Report: Applying Worldwide Best I	

Version:	Release Date:	Number of Worksheets:	Key Features and Developments
v1	2005/ 2006	5	The AWWA Water Audit Software was piloted in 2005 (v1.0 beta). The early versions (1.x) of the software restricted data entry to units of Million Gallons per year. For each entry into the audit, users identified whether the input was measured or estimated.
v2	2006	5	The most significant enhancement in v2 of the software was to allow the user to choose the volumetric units to be used in the audit, Million Gallons or Thousand Cubic Metres (megalitres) per year. Two financial performance indicators were added to provide feedback to the user on the cost of Real and Apparent losses.
v3	2007	7	In v3, the option to report volumetric units in acre-feet was added. Another new feature in v3 was the inclusion of default values for two water audit components (unbilled unmetered and unauthorized consumption). v3 also included two examples of completed audits in units of million gallons and Megalitres. Several checks were added into v3 to provide instant feedback to the user on common data entry problems, in order to help the user complete an accurate water audit.
v4 - v4.2	2010	10	v4 (and versions 4.x) of the software included a new approach to data grading. The simple "estimated" or "measured" approach was replaced with a more granular scale (typically 1-10) that reflected descriptions of utility practices and served to describe the confidence and accuracy of the input data. Each input value had a corresponding scale fully described in the Grading Matrix tab. The Grading Matrix also showed the actions required to move to a higher grading score. Grading descriptions were available on the Reporting Worksheet via a pop-up box next to each water audit input. A water audit data validity score is generated (max = 100) and priority areas for attention (to improve audit accuracy) are identified, once a user completes the requied data grading. A servic connection diagram was also added to help users understand the impact of customer service line configurations on water losses and how this information should be entered into the water audit software. An acknoweldgements section was also added. Minor bug fixes resulted in the release of versions 4.1 and 4.2. A French language version was also made available for v4.2.
v5	2014	12	In v5, changes were made to the way Water Supplied information is entered into software, with each major component having a corresponding Master Meter Error Adjustment entry (and data grading requirement). This required changes to the data validity score calculation; v5 of the software uses a weighting system that is, in part, proportional to the volume of input components. The Grading Matrix was updated to reflect the new audit inputs and also to include clarifications and additions to the scale descriptions The appearance of the software was updated in v5 to make the software more user-friendly and several new features were added provide more feedback to the user. Notably, a dashboard tab has been added to provide more visual feedback on the water audit results and associated costs of Non-Revenue Water. A comments sheet was added to allow the user to track notes, comments a to cite sources used.

APPENDIX F

SB X7-7 VERIFICATION FORMS

SB X7-7 Table 0: Units of Measure Used in UWMP* (select one from the drop down list)

Acre Feet

*The unit of measure must be consistent with Table 2-3

NOTES: Data from PWSS/Annual Reports reported Calendar Year.

Baseline	Parameter	Value	Units
	2008 total water deliveries	24,279	Acre Feet
	2008 total volume of delivered recycled water	0	Acre Feet
10- to 15-year	2008 recycled water as a percent of total deliveries	0.00%	Percent
baseline period	Number of years in baseline period ¹	10	Years
	Year beginning baseline period range	1999	
	Year ending baseline period range ²	2008	
F ween	Number of years in baseline period	5	Years
5-year	Year beginning baseline period range	2003	
baseline period	Year ending baseline period range ³ 2007		
f the 2008 recycled wat	er percent is less than 10 percent, then the first baseline period is a continuous 10)-year period. If the amo	ount of recycled wate
The ending year must be	between December 31, 2004 and December 31, 2010.		
he ending year must be	between December 31, 2007 and December 31, 2010.		
OTES: Source: PWS	S Reports.		

SB X7-7 Table 2: Method for Population Estimates							
Method Used to Determine Population (may check more than one)							
	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available						
	2. Persons-per-Connection Method						
7	3. DWR Population Tool						
	4. Other DWR recommends pre-review						
NOTES:							

SB X7-7 Table 3: Service Area Population						
Y	ear	Population				
10 to 15 Ye	10 to 15 Year Baseline Population					
Year 1	1999	49,914				
Year 2	2000	50,489				
Year 3	2001	54,844				
Year 4	2002	63,142				
Year 5	2003	70,484				
Year 6	2004	82,893				
Year 7	2005	90,315				
Year 8	2006	97,688				
Year 9	2007	101,693				
Year 10 2008		103,270				
5 Year Base	eline Populati	on				
Year 1	2003	70,484				
Year 2	2004	82,893				
Year 3	2005	90,315				
Year 4	2006	97,688				
Year 5	2007	101,693				
2015 Compliance Year Population						
2	015	119,034				
NOTES: From Population Tool.						

	Baseline	nual Gross Water Use *	Deductions					
	Year Fm SB X7-7 Table 3	Volume Into Distribution System Fm SB X7-7 Table(s) 4-A	Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water Fm SB X7-7 Table 4-B	Water Delivered for Agricultural Use	Process Water Fm SB X7-7	Annual Gross Water Use
10 to 15	Year Baseline	e - Gross Water Use						
Year 1	1999	16233			0		0	16,233
Year 2	2000	18706			0		0	18,706
Year 3	2001	17551			0		0	17,551
Year 4	2002	17485			0		0	17,485
Year 5	2003	19793			0		0	19,793
Year 6	2004	21314			0		0	21,314
Year 7	2005	23894			0		0	23,894
Year 8	2006	26475			0		0	26,475
Year 9	2007	28848			0		0	28,848
Year 10	2008	26587			0		0	26,587
10 - 15 year baseline average gross water use							21,689	
5 Year B	aseline - Gros	ss Water Use	-				-	
Year 1	2003	19,793			0		0	19,793
Year 2	2004	21,314			0		0	21,314
Year 3	2005	23,894			0		0	23,894
Year 4	2006	26,475			0		0	26,475
Year 5	2007	28,848			0		0	28,848
5 year baseline average gross water use							24,065	
2015 Compliance Year - Gross Water Use								
	2015	22,381			0		0	22,381
* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3								
NOTES: Volume in AF from PWSS/Annual Reports								

Name of	Source				
		JCSD Wells			
This wat	er source				
\checkmark		ier's own wat			
	A purchas	ed or import	ed source		
		Volume	Meter Error		
Baseli	ne Year	Entering	Adjustment*	Rounded Volume Entering Distribution	
Fm SB X7	7-7 Table 3	Distribution	Optional	System	
		System	(+/-)		
10 to 15	Year Base	line - Water i	nto Distributio	n System	
Year 1	1999	16233.18		16,233	
Year 2	2000	16746.12		16,746	
Year 3	2001	13905.24		13,905	
Year 4	2002	14562		14,562	
Year 5	2003	16810.86		16,811	
Year 6	2004	19990.57		19,991	
Year 7	2005	18913		18,913	
Year 8	2006	17836		17,836	
Year 9	2007	15761		15,761	
Year 10	2008	18559		18,559	
5 Year Baseline - Water into Distribution System					
Year 1	2003	16810.86		16,811	
Year 2	2004	19990.57		19,991	
Year 3	2005	18913		18,913	
Year 4	2006	17836		17,836	
Year 5	2007	15761		15,761	
2015 Compliance Year - Water into Distribution System					
2015		9837.738		9,838	

Source: PWSS reports. Potable and non-potable. (AF)

SB X7-7 Table 4-A: Volume Entering the Distribution System(s) Complete one table for each source.

Name of	f Source	Purchased sources					
This wat	This water source is:						
	The supplier's own water source						
~	A purchased or imported source						
		Volume	Meter Error				
Baseli	ne Year	Entering	Adjustment*	Rounded Volume Entering Distribution			
Fm SB X7	7-7 Table 3	Distribution	Optional	System			
		System	(+/-)				
10 to 15	10 to 15 Year Baseline - Water into Distribution System						
Year 1	1999	0		0			
Year 2	2000	1959.722		1,960			
Year 3	2001	3645.56		3,646			
Year 4	2002	2922.77		2,923			
Year 5	2003	2982.18		2,982			

Year 6	2004	1323.22		1,323		
Year 7	2005	4981		4,981		
Year 8	2006	8639		8,639		
Year 9	2007	13087		13,087		
Year 10	2008	8028		8,028		
5 Year Ba	5 Year Baseline - Water into Distribution System					
Year 1	2003	2982.18		2,982		
Year 2	2004	1323.22		1,323		
Year 3	2005	4981		4,981		
Year 4	2006	8639		8,639		
Year 5	2007	13087		13,087		
2015 Compliance Year - Water into Distribution System						
2015		12,543		12,543		
* Met	* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document					
Source: PWSS reports. (AF)						

SB X7-7 T	able 5: Gallo	ns Per Capita P	er Day (GPCD)	
Basel	ine Year 7-7 Table 3	Service Area Population Fm SB X7-7 Table 3	Annual Gross Water Use <i>Fm SB X7-7</i> Table 4	Daily Per Capita Water Use (GPCD)
10 to 15 Ye	ear Baseline G	PCD		
Year 1	1999	49,914	16,233	290
Year 2	2000	50,489	18,706	331
Year 3	2001	54,844	17,551	286
Year 4	2002	63,142	17,485	247
Year 5	2003	70,484	19,793	251
Year 6	2004	82,893	21,314	230
Year 7	2005	90,315	23,894	236
Year 8	2006	97,688	26,475	242
Year 9	2007	101,693	28,848	253
Year 10	2008	103,270	26,587	230
10-15 Year	r Average Base	eline GPCD		260
5 Year Bas	seline GPCD			
	ine Year 7-7 Table 3	Service Area Population <i>Fm SB X7-7</i> Table 3	Gross Water Use Fm SB X7-7 Table 4	Daily Per Capita Water Use
Year 1	2003	70,484	19,793	251
Year 2	2004	82,893	21,314	230
Year 3	2005	90,315	23,894	236
Year 4	2006	97,688	26,475	242
Year 5	2007	101,693	28,848	253
	erage Baseline			242
2015 Com	pliance Year G	SPCD		
	015	119,034	22,381	168
NOTES: An	nual Gross Wa	ater Use in AF.		

SB X7-7 Table 6 : Gallons per Capita per Day Summary From Table SB X7-7 Table 5					
10-15 Year Baseline GPCD	260				
5 Year Baseline GPCD	242				
2015 Compliance Year GPCD	168				
NOTES:					

Targe	et Method	Supporting Documentation
\checkmark	Method 1	SB X7-7 Table 7A
	Method 2	SB X7-7 Tables 7B, 7C, and 7D Contact DWR for these tables
	Method 3	SB X7-7 Table 7-E
	Method 4	Method 4 Calculator

SB X7-7 Table 7-A: Target Method 1 20% Reduction	L	
10-15 Year Baseline GF	PCD	2020 Target GPCD
260		208
NOTES:		

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target						
5 Year Baseline GPCD From SB X7-7 Table 5	Maximum 2020 Target*	Calculated 2020 Target Fm Appropriate Target Table	Confirmed 2020 Target			
242	230	208	208			
* Maximum 2020 Target is 95% of the 5 Year Baseline GPCD						
NOTES:						

S	R X7-7 Table 8: 2	015 Interim Targe	at GPCD
5	Confirmed	10-15 year	
	2020 Target	, Baseline GPCD	2015 Interim
	Fm SB X7-7	Fm SB X7-7	Target GPCD
	Table 7-F	Table 5	
	208	260	234
Ν	OTES:		

SB X7-7 Table 9: 2015 Compliance								
Actual 2015 2015 Interim	2015 Interim		2015 GPCD	Did Supplier				
Actual 2015 GPCD	Target GPCD	Extraordinary	Weather	Economic	TOTAL	Adjusted 2015	(Adjusted if	Achieve
GPCD	Target GPCD	Events	Normalization	Adjustment	Adjustments	GPCD	applicable)	Targeted
168	234	0	0	0	0	167.8531783	167.8531783	YES
NOTES:								

APPENDIX G

CHINO GROUNDWATER BASIN ADJUDICATION

JUDGMENT No. 164327, January 2, 1975

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7	Attorneys for Plaintiff
8	
9	SUPERIOR COURT OF THE STATE OF CALIFORNIA
10	FOR THE COUNTY OF SAN BERNARDINO
11	CHINO BASIN MUNICIPAL WATER
12	DISTRICT,
13	Plaintiff,) No. 164327
14	v.)
15	CITY OF CHINO, et al.) JUDGMENT
16	Defendants.)
17)
18	
19	I. INTRODUCTION
20	1. Pleadings, Parties and Jurisdiction. The complaint here-
21	in was filed on January 2, 1975, seeking an adjudication of water
22	rights, injunctive relief and the imposition of a physical solu-
23	tion. A first amended complaint was filed on July 16, 1976. The
24	defaults of certain defendants have been entered, and certain
25	other defendants dismissed. Other than defendants who have been
26	dismissed or whose defaults have been entered, all defendants have
27	appeared herein. By answers and order of this Court, the issues
28	have been made those of a full inter se adjudication between the

parties. This Court has jurisdiction of the subject matter of
 this action and of the parties herein.

3 2. <u>Stipulation For Judgment</u>. Stipulation for entry of
4 judgment has been filed by and on behalf of a majority of the
5 parties, representing a majority of the quantitative rights herein
6 adjudicated.

7 3. <u>Trial; Findings and Conclusions</u>. Trial was commenced on
8 December 16, 1977, as to the non-stipulating parties, and findings
9 of fact and conclusions of law have been entered disposing of the
10 issues in the case.

4. <u>Definitions</u>. As used in this Judgment, the following terms shall have the meanings herein set forth:

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(a) <u>Active Parties</u>. All parties other than those who have filed with Watermaster a written waiver of service of notices, pursuant to Paragraph 58.

(b) <u>Annual</u> or <u>Year</u> -- A fiscal year, July 1 through June 30, following, unless the context shall clearly indicate a contrary meaning.

(c) <u>Appropriative Right</u> -- The annual production right of a producer from the Chino Basin other than pursuant to an overlying right.

(d) <u>Basin Water</u> -- Ground water within Chino Basin which is part of the Safe Yield, Operating Safe Yield, or replenishment water in the Basin as a result of operations under the Physical Solution decreed herein. Said term does not include Stored Water.

(e) <u>CBMWD</u> -- Plaintiff Chino Basin Municipal Water District.

- 2 -

(f) <u>Chino Basin</u> or <u>Basin</u> -- The ground water basin underlying the area shown as such on Exhibit "B" and within the boundaries described in Exhibit "K".

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(g) <u>Chino Basin Watershed</u> -- The surface drainage area tributary to and overlying Chino Basin.

(h) <u>Ground Water</u> -- Water beneath the surface of the ground and within the zone of saturation, i.e., below the existing water table.

(i) <u>Ground Water Basin</u> -- An area underlain by one or more permeable formations capable of furnishing substantial water storage.

(j) <u>Minimal Producer</u> -- Any producer whose production does not exceed five acre-feet per year.

(k) <u>MWD</u> -- The Metropolitan Water District of Southern California.

(1) <u>Operating Safe Yield</u> -- The annual amount of ground water which Watermaster shall determine, pursuant to criteria specified in Exhibit "I", can be produced from Chino Basin by the Appropriative Pool parties free of replenishment obligation under the Physical Solution herein.

(m) <u>Overdraft</u> -- A condition wherein the total annual production from the Basin exceeds the Safe Yield thereof.

(n) <u>Overlying Right</u> -- The appurtenant right of an owner of lands overlying Chino Basin to produce water from the Basin for overlying beneficial use on such lands.

(o) <u>Person</u>. Any individual, partnership, association, corporation, governmental entity or agency, or other organization.

- 3 -

(p) <u>PVMWD</u> -- Defendant Pomona Valley Municipal Water District.

(q) <u>Produce or Produced</u> -- To pump or extract ground water from Chino Basin.

(r) <u>Producer</u> -- Any person who produces water from Chino Basin.

(s) <u>Production</u> -- Annual quantity, stated in acre feet, of water produced.

(t) <u>Public Hearing</u> -- A hearing after notice to all parties and to any other person legally entitled to notice.

(u) <u>Reclaimed Water</u> -- Water which, as a result of processing of waste water, is suitable for a controlled use.

(v) <u>Replenishment Water</u> -- Supplemental water used to recharge the Basin pursuant to the Physical Solution, either directly by percolating the water into the Basin or indirectly by delivering the water for use in lieu of production and use of safe yield or Operating Safe Yield.

(w) <u>Responsible Party</u> -- The owner, co-owner, lessee or other person designated by multiple parties interested in a well as the person responsible for purposes of filing reports hereunder.

(x) <u>Safe Yield</u> -- The long-term average annual quantity of ground water (excluding replenishment or stored water but including return flow to the Basin from use of replenishment or stored water) which can be produced from the Basin under cultural conditions of a particular year without causing an undesirable result.

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(y) <u>SBVMWD</u> -- San Bernardino Valley Municipal Water

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District.

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 (z) <u>State Water</u> -- Supplemental Water imported through the State Water Resources Development System, pursuant to Chapter 8, Division 6, Part 6 of the Water Code.

(aa) <u>Stored Water</u> -- Supplemental water held in storage, as a result of direct spreading, in lieu delivery, or otherwise, for subsequent withdrawal and use pursuant to agreement with Watermaster.

(bb) <u>Supplemental Water</u> -- Includes both water imported to Chino Basin from outside Chino Basin Watershed, and reclaimed water.

(cc) <u>WMWD</u> --Defendant Western Municipal Water District of Riverside County.

5. List of Exhibits. The following exhibits are attached to this Judgment and made a part hereof:

"A" -- "Location Map of Chino Basin" showing boundaries of Chino Basin Municipal Water District, and other geographic and political features.

"B" -- "Hydrologic Map of Chino Basin" showing hydrologic features of Chino Basin.

"C" -- Table Showing Parties in Overlying (Agricultural) Pool.

"D" -- Table Showing Parties in Overlying (Nonagricultural Pool and Their Rights.

"E" -- Table Showing Appropriators and Their Rights.
"F" -- Overlying (Agricultural) Pool Pooling Plan.
"G" -- Overlying (Non-agricultural) Pool Pooling Plan.
"H" -- Appropriative Pool Pooling Plan.

- 5 -

"I" -- Engineering Appendix. 1 "J" -- Map of In Lieu Area No. 1. 2 "K" -- Legal Description of Chino Basin. 3 4 5 II. DECLARATION OF RIGHTS 6 Α. HYDROLOGY 7 6. Safe Yield. The Safe Yield of Chino Basin is 140,000 acre feet per year. 8 Overdraft and Prescriptive Circumstances. 9 7. In each year for a period in excess of five years prior to filing of the First 10 Amended Complaint herein, the Safe Yield of the Basin has been 11 exceeded by the annual production therefrom, and Chino Basin is and 12 has been for more than five years in a continuous state of over-13 draft. The production constituting said overdraft has been open, 14 notorious, continuous, adverse, hostile and under claim of right. 15 The circumstances of said overdraft have given notice to all 16 parties of the adverse nature of such aggregate over-production. 17 18 Β. WATER RIGHTS IN SAFE YIELD 8. Overlying Rights. The parties listed in Exhibits "C" and 19 "D" are the owners or in possession of lands which overlie Chino 20 Basin. As such, said parties have exercised overlying water 21 rights in Chino Basin. All overlying rights owned or exercised by 22 parties listed in Exhibits "C" and "D" have, in the aggregate, been 23 limited by prescription except to the extent such rights have been 24 preserved by self-help by said parties. Aggregate preserved 25 overlying rights in the Safe Yield for agricultural pool use, 26 including the rights of the State of California, total 82,800 acre 27 feet per year. Overlying rights for non-agricultural pool use 28

- 6 -

total 7,366 acre feet per year and are individually decreed for 1 each affected party in Exhibit "D". No portion of the Safe Yield 2 of Chino Basin exists to satisfy unexercised overlying rights, and 3 such rights have all been lost by prescription. However, uses may 4 be made of Basin Water on overlying lands which have no preserved 5 overlying rights pursuant to the Physical Solution herein. 6 A11 overlying rights are appurtenant to the land and cannot be assigned 7 or conveyed separate or apart therefrom. 8

9. Appropriative Rights. The parties listed in Exhibit "E" 9 are the owners of appropriative rights, including rights by pres-10 cription, in the unadjusted amounts therein set forth, and by 11 reason thereof are entitled under the Physical Solution to share in 12 the remaining Safe Yield, after satisfaction of overlying rights 13 and rights of the State of California, and in the Operating Safe 14 Yield in Chino Basin, in the annual shares set forth in Exhibit 15 ٣Е″. 16

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(a) Loss of Priorities. By reason of the long continued overdraft in Chino Basin, and in light of the complexity of determining appropriative priorities and the need for conserving and making maximum beneficial use of the water resources of the State, each and all of the parties listed in Exhibit "E" are estopped and barred from asserting special priorities or preferences, <u>inter se</u>. All of said appropriative rights are accordingly deemed and considered of equal priority.

(b) <u>Nature and Quantity</u>. All rights listed in Exhibit "E" are appropriative and prescriptive in nature. By reason of the status of the parties, and the provisions of Section

- 7 -

storage capacity of Chino Basin for storage of supplemental water; provided that no such use shall be made except pursuant to written agreement with Watermaster, as authorized by Paragraph 28. In the allocation of such storage capacity, the needs and requirements of lands overlying Chino Basin and the owners of rights in the Safe Yield or Operating Safe Yield of the Basin shall have priority and preference over storage for export.

III. INJUNCTION

13. <u>Injunction Against Unauthorized Production of Basin</u> <u>Water</u>. Each party in each of the respective pools is enjoined, as follows:

(a) <u>Overlying (Agricultural) Pool</u>. Each party in the Overlying (Agricultural) Pool, its officers, agents, employees, successors and assigns, is and they each are ENJOINED AND RESTRAINED from producing ground water from Chino Basin in any year hereafter in excess of such party's correlative share of the aggregate of 82,800 acre feet allocated to said Pool, except pursuant to the Physical Solution or a storage water agreement.

(b) <u>Overlying (Non-Agricultural) Pool</u>. Each party in the Overlying (Non-agricultural) Pool, its officers, agents, employees, successors and assigns, is and they each are ENJOINED AND RESTRAINED from producing ground water of Chino Basin in any year hereafter in excess of such party's decreed rights in the Safe Yield, except pursuant to the provisions of the Physical Solution or a storage water agreement.

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(c) Appropriative Pool. Each party in the

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1			1	Appropriative Pool, its officers, agents, employees, successors
2	an	s	2	and assigns, is and they are each ENJOINED AND RESTRAINED from
3	he	:T:	3	producing ground water of Chino Basin in any year hereafter in
4			4	excess of such party's decreed share of Operating Safe Yield,
5	(b	0	5	except pursuant to the provisions of the Physical Solution or
6	at		6	a storage water agreement.
7	af	rı	7	14. Injunction Against Unauthorized Storage or Withdrawal
8	(đ		8	of Stored Water. Each party, its officers, agents, employees,
9	of	x)	9	successors and assigns is and they each are ENJOINED AND RESTRAINED
10	of		10	from storing supplemental water in Chino Basin for withdrawal, or
11	wh	pi	11	causing withdrawal of, water stored by that party, except pursuant
12	th	 .	12	to the terms of a written agreement with Watermaster and in
13	Exl	h'	13	accordance with Watermaster regulations. Any supplemental water
14	mar	Dŧ	14	stored or recharged in the Basin, except pursuant to such a Water-
15	th		15	master agreement, shall be deemed abandoned and not classified as
16	by	fi	16	Stored Water. This paragraph has no application, as such, to
17	the		17	supplemental water spread or provided in lieu by Watermaster pur-
18	gra	nc	18	suant to the Physical Solution.
19	of		19	
20	foi	ar	20	IV. CONTINUING JURISDICTION
21	rea	-	21	15. Continuing Jurisdiction. Full jurisdiction, power and
22	tha	t	22	authority are retained and reserved to the Court as to all matters
23	sha	5e	23	contained in this judgment, except:
24	for	17	24	(a) The redetermination of Safe Yield, as set forth in
25	be	ıc	25	Paragraph 6, during the first ten (10) years of operation of
26	Said cor	:	26	the Physical Solution;
27	abling t	ą	27	(b) The allocation of Safe Yield as between the several
28	the Advi		28	pools as set forth in Paragraph 44 of the Physical Solution;
				- 10 -
				- 10 -

at least 30 days' notice thereof, and after hearing thereon, to 1 make such further or supplemental orders or directions as may be 2 necessary or appropriate for interpretation, enforcement or carry-3 ing out of this Judgment, and to modify, amend or amplify any of 4 5 the provisions of this Judgment.

V. WATERMASTER

A. APPOINTMENT

16. Watermaster Appointment. CBMWD, acting by and through a 9 majority of its board of directors, is hereby appointed Water-10 master, to administer and enforce the provisions of this Judgment 11 and any subsequent instructions or orders of the Court hereunder. 12 The term of appointment of Watermaster shall be for five (5) years. 13 The Court will by subsequent orders provide for successive terms or 14 for a successor Watermaster. Watermaster may be changed at any 15 time by subsequent order of the Court, on its own motion, or on the 16 motion of any party after notice and hearing. Unless there are 17 compelling reasons to the contrary, the Court shall act in con-18 formance with a motion requesting the Watermaster be changed if 19 such motion is supported by a majority of the voting power of the 20 Advisory Committee. 21

B. POWERS AND DUTIES

23 17. Powers and Duties. Subject to the continuing supervision and control of the Court, Watermaster shall have and may exercise 24 the express powers, and shall perform the duties, as provided in 25 this Judgment or hereafter ordered or authorized by the Court in 26 the exercise of the Court's continuing jurisdiction.

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18. Rules and Regulations. Upon recommendation by the

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Advisory Committee, Watermaster shall make and adopt, after public 1 hearing, appropriate rules and regulations for conduct of Water-2 master affairs, including meeting schedules and procedures, and 3 compensation of members of Watermaster at not to exceed \$25 per 4 member per meeting, or \$300 per member per year, whichever is less, 5 plus reasonable expenses related to activities within the Basin. 6 Thereafter, Watermaster may amend said rules from time to time upon 7 recommendation, or with approval of the Advisory Committee after 8 hearing noticed to all active parties. A copy of said rules and 9 regulations, and of any amendments thereof, shall be mailed to each 10 active party. 11

12 19. <u>Acquisition of Facilities</u>. Watermaster may purchase,
13 lease, acquire and hold all necessary facilities and equipment;
14 provided, that it is not the intent of the Court that Watermaster
15 acquire any interest in real property or substantial capital
16 assets.

20. Employment of Experts and Agents. Watermaster may 17 employ or retain such administrative, engineering, geologic, 18 accounting, legal or other specialized personnel and consultants as 19 may be deemed appropriate in the carrying out of its powers and 20 shall require appropriate bonds from all officers and employees 21 handling Watermaster funds. Watermaster shall maintain records for 22 purposes of allocation of costs of such services as well as of all 23 other expenses of Watermaster administration as between the several 24 pools established by the Physical Solution. 25

26 21. <u>Measuring Devices</u>. Watermaster shall cause parties, 27 pursuant to uniform rules, to install and maintain in good opera-28 ting condition, at the cost of each party, such necessary measuring

- 13 -

devices or meters as Watermaster may deem appropriate. 1 Such measuring devices shall be inspected and tested as deemed necessary 2 by Watermaster, and the cost thereof shall constitute an expense of 3 Watermaster.

22. Assessments. Watermaster is empowered to levy and collect all assessments provided for in the pooling plans and Physical Solution.

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23. Investment of Funds. Watermaster may hold and invest any and all Watermaster funds in investments authorized from time to time for public agencies of the State of California.

24. Borrowing. Watermaster may borrow from time to time 11 amounts not exceeding the annual anticipated receipts of Water-12 master during such year. 13

14 25. Contracts. Watermaster may enter into contracts for the 15 performance of any powers herein granted; provided, however, that 16 Watermaster may not contract with or purchase materials, supplies 17 or services from CBMWD, except upon the prior recommendation and 18 approval of the Advisory Committee and pursuant to written order of 19 the Court.

20 26. Cooperation With Other Agencies. Subject to prior 21 recommendation or approval of the Advisory Committee, Watermaster 22 may act jointly or cooperate with agencies of the United States and the State of California or any political subdivisions, munici-23 palities or districts or any person to the end that the purpose of 24 the Physical Solution may be fully and economically carried out. 25

27. Studies. Watermaster may, with concurrence of the 26 Advisory Committee or affected Pool Committee and in accordance 27 with Paragraph 54 (b), undertake relevant studies of hydrologic 28

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conditions, both quantitative and qualitative, and operating
 aspects of implementation of the management program for Chino
 Basin.

28. Ground Water Storage Agreements. Watermaster shall 4 adopt, with the approval of the Advisory Committee, uniformly 5 applicable rules and a standard form of agreement for storage of 6 supplemental water, pursuant to criteria therefore set forth in 7 Exhibit "I". Upon appropriate application by any person, Water-8 master shall enter into such a storage agreement; provided that all 9 such storage agreements shall first be approved by written order of 10 the Court, and shall by their terms preclude operations which will 11 have a substantial adverse impact on other producers. 12

29. <u>Accounting for Stored Water</u>. Watermaster shall calculate
additions, extractions and losses and maintain an annual account of
all Stored Water in Chino Basin, and any losses of water supplies
or Safe Yield of Chino Basin resulting from such Stored Water.

30. Annual Administrative Budget. Watermaster shall submit 17 to Advisory Committee an administrative budget and recommendation 18 for each fiscal year on or before March 1. The Advisory Committee 19 shall review and submit said budget and their recommendations to 20 Watermaster on or before April 1, following. Watermaster shall 21 hold a public hearing on said budget at its April quarterly meeting 22 and adopt the annual administrative budget which shall include the 23 administrative items for each pool committee. The administrative 24 budget shall set forth budgeted items in sufficient detail as 25 necessary to make a proper allocation of the expense among the 26 several pools, together with Watermaster's proposed allocation. 27 The budget shall contain such additional comparative information 28

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or explanation as the Advisory Committee may recommend from time
to time. Expenditures within budgeted items may thereafter be
made by Watermaster in the exercise of powers herein granted, as a
matter of course. Any budget transfer in excess of 20% of a
budget category during any budget year or modification of such
administrative budget during any year shall be first submitted to
the Advisory Committee for review and recommendation.

8 31. <u>Review Procedures</u>. All actions, decisions or rules of 9 Watermaster shall be subject to review by the Court on its own 10 motion or on timely motion by any party, the Watermaster (in the 11 case of a mandated action), the Advisory Committee, or any Pool 12 Committee, as follows:

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(a) Effective Date of Watermaster Action. Any action, decision or rule of Watermaster shall be deemed to have occurred or been enacted on the date on which written notice thereof is mailed. Mailing of copies of approved Watermaster minutes to the active parties shall constitute such notice to all parties.

(b) <u>Noticed Motion</u>. Any party, the Watermaster (as to any mandated action), the Advisory Committee, or any Pool Committee may, by a regularly noticed motion, apply to the Court for review of any Watermaster's action, decision or rule. Notice of such motion shall be served personally or mailed to Watermaster and to all active parties. Unless otherwise ordered by the Court, such motion shall not operate to stay the effect of such Watermaster action, decision or rule.

- 16 -

(c) <u>Time for Motion</u>. Notice of motion to review any Watermaster action, decision or rule shall be served and filed within ninety (90) days after such Watermaster action, decision or rule, except for budget actions, in which event said notice period shall be sixty (60) days.

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(d) <u>De Novo Nature of Proceedings</u>. Upon the filing of any such motion, the Court shall require the moving party to notify the active parties, the Watermaster, the Advisory Committee, and each Pool Committee, of a date for taking evidence and argument, and on the date so designated shall review <u>de novo</u> the question at issue. Watermaster's findings or decision, if any, may be received in evidence at said hearing, but shall not constitute presumptive or prima facie proof of any fact in issue.

(e) <u>Decision</u>. The decision of the Court in such proceeding shall be an appealable supplemental order in this case. When the same is final, it shall be binding upon the Watermaster and all parties.

C. ADVISORY AND POOL COMMITTEES

32. Authorization. Watermaster is authorized and directed to 20 cause committees of producer representatives to be organized to 21 act as Pool Committees for each of the several pools created under 22 the Physical Solution. Said Pool Committees shall, in turn, 23 jointly form an Advisory Committee to assist Watermaster in per-24 formance of its functions under this judgment. Pool Committees 25 shall be composed as specified in the respective pooling plans, and 26 the Advisory Committee shall be composed of not to exceed ten (10) 27 voting representatives from each pool, as designated by the 28

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respective Pool Committee. WMWD, PVMWD and SBVMWD shall each be 1 entitled to one non-voting representative on said Advisory Com-2 mittee. 3

33. Term and Vacancies. Members of any Pool Committee, shall 4 serve for the term, and vacancies shall be filled, as specified in 5 the respective pooling plan. Members of the Advisory Committee 6 shall serve at the will of their respective Pool Committee. 7

34. Voting Power. The voting power on each Pool Committee shall be allocated as provided in the respective pooling plan. The voting power on the Advisory Committee shall be one hundred (100) votes allocated among the three pools in proportion to the total assessments paid to Watermaster during the preceding year; provided, that the minimum voting power of each pool shall be

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(a) Overlying (Agricultural) Pool 20.

15 16 Overlying (Non-agricultural) Pool

(b)

Appropriative Pool (c)20.

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In the event any pool is reduced to its said minimum vote, the re-17 maining votes shall be allocated between the remaining pools on 18 said basis of assessments paid to Watermaster by each such remain-19 ing pool during the preceding year. The method of exercise of 20 each pool's voting power on the Advisory Committee shall be as 21 determined by the respective pool committees. 22

35. Quorum. A majority of the voting power of the Advisory 23 Committee or any Pool Committee shall constitute a quorum for the 24 transaction of affairs of such Advisory or Pool Committee; pro-25 vided, that at least one representative of each Pool Committee 26 shall be required to constitute a quorum of the Advisory Committee. 27 No Pool Committee representative may purposely absent himself or 28

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herself, without good cause, from an Advisory Committee meeting to 1 deprive it of a quorum. Action by affirmative vote of a majority 2 of the entire voting power of any Pool Committee or the Advisory 3 Committee shall constitute action by such committee. Any action or 4 recommendation of a Pool Committee or the Advisory Committee shall 5 be transmitted to Watermaster in writing, together with a report of 6 any dissenting vote or opinion. 7

36. Compensation. Pool or Advisory Committee members may 8 receive compensation, to be established by the respective pooling 9 10 plan, but not to exceed twenty-five dollars (\$25.00) for each meeting of such Pool or Advisory Committee attended, and provided 11 that no member of a Pool or Advisory Committee shall receive 12 compensation of more than three hundred (\$300.00) dollars for 13 service on any such committee during any one year. All such com-14 pensation shall be a part of Watermaster administrative expense. 15 No member of any Pool or Advisory Committee shall be employed by 16 Watermaster or compensated by Watermaster for professional or other 17 services rendered to such Pool or Advisory Committee or to Water-18 master, other than the fee for attendance at meetings herein 19 20 provided, plus reimbursement of reasonable expenses related to activities within the Basin. 21

37. Organization.

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(a) Organizational Meeting. At its first meeting in each year, each Pool Committee and the Advisory Committee shall elect a chairperson and a vice chairperson from its membership. It shall also select a secretary, a treasurer and such assistant secretaries and treasurers as may be appropriate, any of whom may, but need not, be members of

such Pool or Advisory Committee.

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(b) <u>Regular Meetings</u>. All Pool Committees and the Advisory Committee shall hold regular meetings at a place and time to be specified in the rules to be adopted by each Pool and Advisory Committee. Notice of regular meetings of any Pool or Advisory Committee, and of any change in time or place thereof, shall be mailed to all active parties in said pool or pools.

(c) <u>Special Meetings</u>. Special meetings of any Pool or Advisory Committee may be called at any time by the Chairperson or by any three (3) members of such Pool or Advisory Committee by delivering notice personally or by mail to each member of such Pool or Advisory Committee and to each active party at least 24 hours before the time of each such meeting in the case of personal delivery, and 96 hours in the case of mail. The calling notice shall specify the time and place of the special meeting and the business to be transacted. No other business shall be considered at such meeting.

(d) <u>Minutes</u>. Minutes of all Pool Committee, Advisory Committee and Watermaster meetings shall be kept at Watermaster's offices. Copies thereof shall be mailed or otherwise furnished to all active parties in the pool or pools concerned. Said copies of minutes shall constitute notice of any Pool or Advisory Committee action therein reported, and shall be available for inspection by any party.

(e) <u>Adjournments</u>. Any meeting of any Pool or Advisory Committee may be adjourned to a time and place specified in the order of adjournment. Less than a quorum may so adjourn

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from time to time. A copy of the order or notice of adjournment shall be conspicuously posted forthwith on or near the door of the place where the meeting was held.

38. Powers and Functions. 4 The powers and functions of the respective Pool Committees and the Advisory Committee shall be as follows: 6

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(a) Pool Committees. Each Pool Committee shall have the power and responsibility for developing policy recommendations for administration of its particular pool, as created under the Physical Solution. All actions and recommendations of any Pool Committee which require Watermaster implementation shall first be noticed to the other two pools. If no objection is received in writing within thirty (30) days, such action or recommendation shall be transmitted directly to Watermaster for action. If any such objection is received, such action or recommendation shall be reported to the Advisory Committee before being transmitted to Watermaster.

(b) Advisory Committee. The Advisory Committee shall have the duty to study, and the power to recommend, review and act upon all discretionary determinations made or to be made hereunder by Watermaster.

Committee Initiative. When any recommendation [1] or advice of the Advisory Committee is received by Watermaster, action consistent therewith may be taken by Watermaster; provided, that any recommendation approved by 80 votes or more in the Advisory Committee shall constitute a mandate for action by Watermaster consistent therewith. If Watermaster is unwilling or unable to act

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pursuant to recommendation or advice from the Advisory
Committee (other than such mandatory recommendations),
Watermaster shall hold a public hearing, which shall be
followed by written findings and decision. Thereafter,
Watermaster may act in accordance with said decision,
whether consistent with or contrary to said Advisory
Committee recommendation. Such action shall be subject
to review by the Court, as in the case of all other
Watermaster determinations.

[2]. <u>Committee Review</u>. In the event Watermaster proposes to take discretionary action, other than approval or disapproval of a Pool Committee action or recommendation properly transmitted, or execute any agreement not theretofore within the scope of an Advisory Committee recommendation, notice of such intended action shall be served on the Advisory Committee and its members at least thirty (30) days before the Watermaster meeting at which such action is finally authorized.

(c) <u>Review of Watermaster Actions</u>. Watermaster (as to mandated action), the Advisory Committee or any Pool Committee shall be entitled to employ counsel and expert assistance in the event Watermaster or such Pool or Advisory Committee seeks Court review of any Watermaster action or failure to act. The cost of such counsel and expert assistance shall be Watermaster expense to be allocated to the affected pool or pools.

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VI. PHYSICAL SOLUTION

Α. GENERAL.

39. Purpose and Objective. Pursuant to the mandate of 3 Section 2 of Article X of the California Constitution, the Court 4 hereby adopts and orders the parties to comply with a Physical 5 Solution. The purpose of these provisions is to establish a legal 6 and practical means for making the maximum reasonable beneficial 7 use of the waters of Chino Basin by providing the optimum economic, 8 long-term, conjunctive utilization of surface waters, ground waters 9 and supplemental water, to meet the requirements of water users 10 having rights in or dependent upon Chino Basin. 11

Need for Flexibility. It is essential that this Physical 12 40. solution provide maximum flexibility and adaptability in order that Watermaster and the Court may be free to use existing and future technological, social, institutional and economic options, in order 15 to maximize beneficial use of the waters of Chino Basin. 16 To that end, the Court's retained jurisdiction will be utilized, where appropriate, to supplement the discretion herein granted to the Watermaster.

Watermaster Control. Watermaster, with the advice of the 41. 20 Advisory and Pool Committees, is granted discretionary powers in 21 order to develop an optimum basin management program for Chino 22 Basin, including both water quantity and quality considerations. 23 Withdrawals and supplemental water replenishment of Basin Water, 24 and the full utilization of the water resources of Chino Basin, 25 must be subject to procedures established by and administered 26 through Watermaster with the advice and assistance of the Advisory 27 and Pool Committees composed of the affected producers. 28 Both the

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quantity and quality of said water resources may thereby be pre served and the beneficial utilization of the Basin maximized.

General Pattern of Operations. It is contemplated that 3 42. the rights herein decreed will be divided into three (3) operating 4 5 pools for purposes of Watermaster administration. A fundamental premise of the Physical Solution is that all water users dependent 6 upon Chino Basin will be allowed to pump sufficient waters from the 7 Basin to meet their requirements. To the extent that pumping 8 exceeds the share of the Safe Yield assigned to the Overlying 9 Pools, or the Operating Safe Yield in the case of the Appropriative 10 Pool, each pool will provide funds to enable Watermaster to replace 11 such overproduction. The method of assessment in each pool shall 12 be as set forth in the applicable pooling plan. 13

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43. <u>Multiple Pools Established</u>. There are hereby established
three (3) pools for Watermaster administration of, and for the
allocation of responsibility for, and payment of, costs of replenishment water and other aspects of this Physical Solution.

POOLING

(a) <u>Overlying (Agricultural) Pool</u>. The first pool shall consist of the State of California and all overlying producers who produce water for other than industrial or commercial purposes. The initial members of the pool are listed in Exhibit "C".

(b) <u>Overlying (Non-agricultural) Pool</u>. The second pool shall consist of overlying producers who produce water for industrial or commercial purposes. The initial members of this pool are listed in Exhibit "D".

(c) Appropriative Pool. A third and separate pool shall

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consist of owners of appropriative rights. The initial members of the pool are listed in Exhibit "E".

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Any party who changes the character of his use may, by sub-3 sequent order of the Court, be reassigned to the proper pool; but 4 the allocation of Safe Yield under Paragraph 44 hereof shall not be 5 changed. Any non-party producer or any person who may hereafter 6 commence production of water from Chino Basin, and who may become a 7 party to this physical solution by intervention, shall be assigned 8 to the proper pool by the order of the Court authorizing such 9 intervention. 10

11 44. Determination and Allocation of Rights to Safe Yield of
12 Chino Basin. The declared Safe Yield of Chino Basin is hereby
13 allocated as follows:

PoolAllocationOverlying (Agricultural) Pool414,000 acre feet in any five
(5) consecutive years.Overlying (Non-agricultural)
Pool.7,366 acre feet per year.Appropriative Pool49,834 acre feet per year.The foregoing acre foot allocations to the overlying pools arefixed.Any subsequent change in the Safe Yield shall be debited orcredited to the Appropriative Pool.Basin Water available to the

Appropriative Pool without replenishment obligation may vary from year to year as the Operating Safe Yield is determined by Watermaster pursuant to the criteria set forth in Exhibit "I".

45. <u>Annual Replenishment</u>. Watermaster shall levy and collect
assessments in each year, pursuant to the respective pooling plans,
in amounts sufficient to purchase replenishment water to replace
production by any pool during the preceding year which exceeds that

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pool's allocated share of Safe Yield in the case of the overlying 1 pools, or Operating Safe Yield in the case of the Appropriative 2 It is anticipated that supplemental water for replenishment Pool. 3 4 of Chino Basin may be available at different rates to the various pools to meet their replenishment obligations. If such is the 5 case, each pool will be assessed only that amount necessary for the 6 cost of replenishment water to that pool, at the rate available to 7 the pool, to meet its replenishment obligation. 8

9 46. <u>Initial Pooling Plans</u>. The initial pooling plans, which
10 are hereby adopted, are set forth in Exhibits "F", "G" and "H",
11 respectively. Unless and until modified by amendment of the
12 judgment pursuant to the Court's continuing jurisdiction, each
13 such plan shall control operation of the subject pool.

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C. REPORTS AND ACCOUNTING

47. <u>Production Reports</u>. Each party or responsible party
shall file periodically with Watermaster, pursuant to Watermaster
rules, a report on a form to be prescribed by Watermaster showing
the total production of such party during the preceding reportage
period, and such additional information as Watermaster may require,
including any information specified by the affected Pool Committee.

48. <u>Watermaster Report and Accounting</u>. Watermaster's annual report, which shall be filed on or before November 15 of each year and shall apply to the preceding year's operation, shall contain details as to operation of each of the pools and a certified audit of all assessments and expenditures pursuant to this Physical Solution and a review of Watermaster activities.

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D. REPLENISHMENT

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Sources of Supplemental Water. Supplemental water may be 49. 2 obtained by Watermaster from any available source. Watermaster 3 shall seek to obtain the best available quality of supplemental 4 water at the most reasonable cost for recharge in the Basin. 5 То the extent that costs of replenishment water may vary between 6 pools, each pool shall be liable only for the costs attributable to 7 its required replenishment. Available sources may include, but are 8 not limited to: 9

(a) <u>Reclaimed Water</u>. There exist a series of agreements generally denominated the Regional Waste Water Agreements between CBMWD and owners of the major municipal sewer systems within the basin. Under those agreements, which are recognized hereby but shall be unaffected and unimpaired by this judgment, substantial quantities of reclaimed water may be made available for replenishment purposes. There are additional sources of reclaimed water which are, or may become, available to Watermaster for said purposes. Maximum beneficial use of reclaimed water shall be given high priority by Watermaster.

(b) <u>State Water</u>. State water constitutes a major available supply of supplemental water. In the case of State Water, Watermaster purchases shall comply with the water service provisions of the State's water service contracts. More specifically, Watermaster shall purchase State Water from MWD for replenishment of excess production within CBMWD, WMWD and PVMWD, and from SBVMWD to replenish excess production within SBVMWD's boundaries in Chino Basin, except to the

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extent that MWD and SBVMWD give their consent as required by such State water service contracts.

(c) <u>Local Import</u>. There exists facilities and methods for importation of surface and ground water supplies from adjacent basins and watersheds.

(d) <u>Colorado River Supplies</u>. MWD has water supplies available from its Colorado River Aqueduct.

50. <u>Methods of Replenishment</u>. Watermaster may accomplish replenishment of overproduction from the Basin by any reasonable method, including:

(a) <u>Spreading</u> and percolation or <u>Injection</u> of water in existing or new facilities, subject to the provisions of
 Paragraphs 19, 25 and 26 hereof.

(b) <u>In Lieu Procedures</u>. Watermaster may make, or cause to be made, deliveries of water for direct surface use, in lieu of ground water production.

E. REVENUES

18 51. <u>Production Assessment</u>. Production assessments, on what19 ever basis, may be levied by Watermaster pursuant to the pooling
20 plan adopted for the applicable pool.

52. <u>Minimal Producers</u>. Minimal Producers shall be exempted from payment of production assessments, upon filing of production reports as provided in Paragraph 47 of this Judgment, and payment of an annual five dollar (\$5.00) administrative fee as specified by Watermaster rules.

26 53. <u>Assessment Proceeds -- Purposes</u>. Watermaster shall have
27 the power to levy assessments against the parties (other than
28 minimal pumpers) based upon production during the preceding period

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1 of assessable production, whether quarterly, semi-annually or 2 annually, as may be determined most practical by Watermaster or the 3 affected Pool Committee.

4 54. <u>Administrative Expenses</u>. The expenses of administration 5 of this Physical Solution shall be categorized as either (a) gen-6 eral Watermaster administrative expense, or (b) special project 7 expense.

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(a) <u>General Watermaster Administrative Expense</u> shall include office rental, general personnel expense, supplies and office equipment, and related incidental expense and general overhead.

(b) <u>Special Project Expense</u> shall consist of special engineering, economic or other studies, litigation expense, meter testing or other major operating expenses. Each such project shall be assigned a Task Order number and shall be separately budgeted and accounted for.

General Watermaster administrative expense shall be allocated 17 and assessed against the respective pools based upon allocations 18 made by the Watermaster, who shall make such allocations based upon 19 generally accepted cost accounting methods. Special Project 20 Expense shall be allocated to a specific pool, or any portion there 21 of, only upon the basis of prior express assent and finding of 22 benefit by the Pool Committee, or pursuant to written order of the 23 Court. 24

25 55. <u>Assessments -- Procedure</u>. Assessments herein provided
26 for shall be levied and collected as follows:

(a) <u>Notice of Assessment</u>. Watermaster shall give written notice of all applicable assessments to each party on

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or before ninety (90) days after the end of the production period to which such assessment is applicable.

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(b) <u>Payment</u>. Each assessment shall be payable on or before thirty (30) days after notice, and shall be the obligation of the party or successor owning the water production facility at the time written notice of assessment is given, unless prior arrangement for payment by others has been made in writing and filed with Watermaster.

(c) <u>Delinquency</u>. Any delinquent assessment shall bear interest at 10% per annum (or such greater rate as shall equal the average current cost of borrowed funds to the Watermaster) from the due date thereof. Such delinquent assessment and interest may be collected in a show-cause proceeding herein instituted by the Watermaster, in which case the Court may allow Watermaster its reasonable costs of collection, includeing attorney's fees.

56. Accumulation of Replenishment Water Assessment Proceeds. In order to minimize fluctuation in assessment and to give Watermaster flexibility in purchase and spreading of replenishment water, Watermaster may make reasonable accumulations of replenishment water assessment proceeds. Interest earned on such retained funds shall be added to the account of the pool from which the funds were collected and shall be applied only to the purchase of replenishment water.

25 57. Effective Date. The effective date for accounting and
26 operation under this Physical Solution shall be July 1, 1977, and
27 the first production assessments hereunder shall be due after July
28 1, 1978. Watermaster shall, however, require installation of

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meters or measuring devices and establish operating procedures immediately, and the cost of such Watermaster activity (not including the cost of such meters and measuring devices) may be recovered in the first administrative assessment in 1978.

VII. MISCELLANEOUS PROVISIONS

Designation of Address for Notice and Service. 58. Each party shall designate the name and address to be used for purposes of all subsequent notices and service herein, either by its endorsement on the Stipulation for Judgment or by a separate designation to be filed within thirty (30) days after Judgment has been served. Said designation may be changed from time to time by filing a written notice of such change with the Watermaster. Any party desiring to be relieved of receiving notices of Watermaster or committee activity may file a waiver of notice on a form to be provided by Watermaster. Thereafter such party shall be removed from the Active Party list. Watermaster shall maintain at all times a current list of all active parties and their addresses for purposes of service. Watermaster shall also maintain a full current list of names and addresses of all parties or their successors, as filed herein. Copies of such lists shall be available, without cost, to any party, the Advisory Committee or any Pool Committee upon written request therefor.

59. <u>Service of Documents</u>. Delivery to or service upon any party or active party by the Watermaster, by any other party, or by the Court, of any item required to be served upon or delivered to such party or active party under or pursuant to the Judgment shall be made personally or by deposit in the United States mail, first

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class, postage prepaid, addressed to the designee and at the address in the latest designation filed by such party or active party.

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Intervention After Judgment. Any non-party assignee of 60. the adjudicated appropriative rights of any appropriator, or any other person newly proposing to produce water from Chino Basin, may become a party to this judgment upon filing a petition in intervention. Said intervention must be confirmed by order of this Court. Such intervenor shall thereafter be a party bound by this judgment and entitled to the rights and privileges accorded under the Physical Solution herein, through the pool to which the Court shall assign such intervenor.

Loss of Rights. Loss, whether by abandonment, forfeiture 61. 13 or otherwise, of any right herein adjudicated shall be accomplished 14 only (1) by a written election by the owner of the right filed with Watermaster, or (2) by order of the Court upon noticed motion and after hearing.

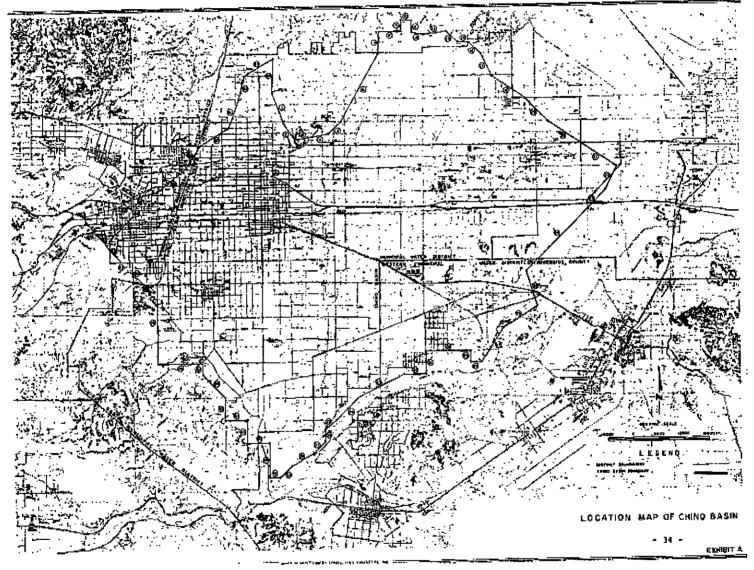
Scope of Judgment. Nothing in this Judgment shall be 62. deemed to preclude or limit any party in the assertion against a neighboring party of any cause of action now existing or hereafter arising based upon injury, damage or depletion of water supply available to such party, proximately caused by nearby pumping which constitutes an unreasonable interference with such complaining party's ability to extract ground water.

Judgment Binding on Successors. This Judgment and all 25 63. provisions thereof are applicable to and binding upon not only the 26 parties to this action, but also upon their respective heirs, 27 executors, administrators, successors, assigns, lessees and 28

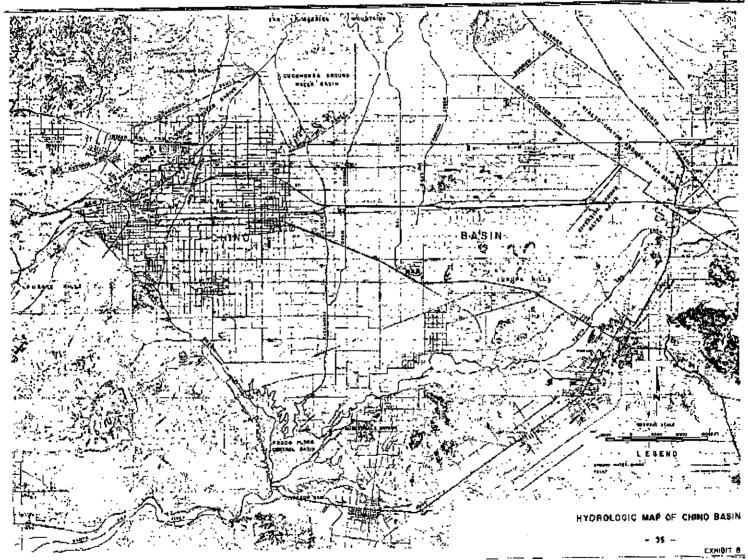
- 32 -

1	licensees and upon the agents, employees and attorneys in fact of
2	all such persons.
3	64. Costs. No party shall recover any costs in this pro-
4	ceeding from any other party.
5	Dated: <u>1/27/78</u> .
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8	/s/ Howard B. Wiener
9	Judge
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7	Attorneys for Plaintiff
8	
9	SUPERIOR COURT OF THE STATE OF CALIFORNIA
10	FOR THE COUNTY OF SAN BERNARDINO
11	
12	CHINO BASIN MUNICIPAL WATER)
13	DISTRICT,)
14	Plaintiff,) No. 164327 v.)
15	CITY OF CHINO, et al.
16	Defendants.)
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21	JUDGMENT
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STIPULATING OVERLYING AGRICULTURAL PRODUCERS

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1	STATE OF CALIFORNIA	Aphessetche, Xavier
2	COUNTY OF SAN BERNARDINO	Arena Mutual Water Assn.
3	Abacherli, Dairy, Inc.	Armstrong Nurseries, Inc.
4	Abacherli, Frank	Arretche, Frank
5	Abacherli, Shirley	Arretche, Jean Pierre
6	Abbona, Anna	Arvidson, Clarence F.
7	Abbona, James	Arvidson, Florence
8	Abbona, Jim	Ashley, George W.
9	Abbona, Mary	Ashley, Pearl E.
10	Agliani, Amelia H.	Atlas Farms
11	Agman, Inc.	Atlas Ornamental Iron Works, Inc.
12	Aguerre, Louis B.	Aukeman, Carol
13	Ahmanson Trust Co.	Aukeman, Lewis
14	Akiyama, Shizuye	Ayers, Kenneth C., aka
15	Akiyama, Tomoo	Kelley Ayers
16	Akkerman, Dave	Bachoc, Raymond
17	Albers, J.N.	Baldwin, Edgar A.
18	Albers, Nellie	Baldwin, Lester
19	Alewyn, Jake J.	Banbury, Carolyn
20	Alewyn, Normalee	Bangma Dairy
21	Alger, Mary D.	Bangma, Arthur
22	Alger, Raymond	Bangma, Ida
23	Allen, Ben F.	Bangma, Martin
24	Allen, Jane F.	Bangma, Sam
25	Alta-Dena Dairy	Barba, Anthony B.
26	Anderson Farms	Barba, Frank
27	Anguiano, Sarah L.S.	Barcellos, Joseph
28	Anker, Gus	Barnhill, Maurine W. HIBIT °C"

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1	Barnhill, Paul	Boersma, Angie
2	Bartel, Dale	Boersma, Berdina
3	Bartel, Ursula	Boersma, Frank
4	Bartel, Willard	Boersma, Harry
5	Barthelemy, Henry	Boersma, Paul
6	Barthelemy, Roland	Boersma, Sam
7	Bassler, Donald V., M.D.	Boersma, William L.
8	Bates, Lowell R.	Bohlander & Holmes, Inc.
9	Bates, Mildred L.	Bokma, Peter
10	Beahm, James W.	Bollema, Jacob
11	Beahm, Joan M.	Boonstoo, Edward
12	Bekendam, Hank	Bootsma, Jim
13	Bekendam, Pete	Borba, Dolene
14	Bello, Eugene	Borba, Dolores
15	Bello, Olga	Borba, Emily
16	Beltman, Evelyn	Borba, George
17	Beltman, Tony	Borba, John
18	Bergquist Properties, Inc.	Borba, John & Sons
19	Bevacqua, Joel A.	Borba, John Jr.
20	Bevacqua, Marie B.	Borba, Joseph A.
21	Bidart, Bernard	Borba, Karen E.
22	Bidart, Michael J.	Borba, Karen M.
23	Binnell, Wesley	Borba, Pete, Estate of
24	Black, Patricia E.	Borba, Ricci
25	Black, Victor	Borba, Steve
26	Bodger, John & Sons Co.	Borba, Tom
27	Boer, Adrian	Bordisso, Alleck
28	Boersma and Wind Dairy	Borges, Angelica M. EXHIBIT "C"

1	Borges, Bernadette	Bothof, Roger W.
2	Borges, John O.	Bouma, Cornie
3	Borges, Linda L.	Bouma, Emma
4	Borges, Manual Jr.	Bouma, Henry P.
5	Borges, Tony	Bouma, Martin
6	Bos, Aleid	Bouma, Peter G. & Sons Dairy
7	Bos, Gerrit	Bouma, Ted
8	Bos, John	Bouman, Helen
9	Bos, John	Bouman, Sam
10	Bos, Margaret	Bower, Mabel E.
11	Bos, Mary	Boys Republic
12	Bos, Mary Beth	Breedyk, Arie
13	Bos, Tony	Breedyk, Jessie
14	Bosch, Henrietta	Briano Brothers
15	Bosch, Peter T.	Briano, Albert
16	Boschma, Betty	Briano, Albert Trustee for
17	Boschma, Frank	Briano, Albert Frank
18	Boschma, Greta	Briano, Lena
19	Boschma, Henry	Brink, Russell N.
20	Bosma, Dick	Brinkerhoff, Margaret
21	Bosma, Florence G.	Brinkerhoff, Robert L.
22	Bosma, Gerrit	Britschgi, Florence
23	Bosma, Jacob J.	Britschgi, Magdalena Garetto
24	Bosma, Jeanette Thea	Britschgi, Walter P.
25	Bosman, Frank	Brommer, Marvin
26	Bosman, Nellie	Brookside Enterprizes, dba
27	Bosnyak, Goldie M.	Brookside Vineyard Co.
28	Bosnyak, Martin	Brothers Three Dairy XHIBIT "C"

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1	Brown, Eugene	Chino Corona Investment
2	Brun, Martha M.	Chino Water Co.
3	Brun, Peter Robert	Christensen, Leslie
4	Buma, Duke	Christensen, Richard G.
5	Buma, Martha	Christian, Ada R.
6	Bunse, Nancy	Christian, Harold F.
7	Bunse, Ronnie L.	Christy, Ella J.
8	Caballero, Bonnie L.	Christy, Ronald S.
9	Caballero, Richard F.	Cihigoyenetche, Jean
10	Cable Airport Inc.	Cihigoyenetche, Leona
11	Cadlini, Donald	Cihigoyenetche, Martin
12	Cadlini, Jesse R.	Clarke, Arthur B.
13	Cadlini, Marie Edna	Clarke, Nancy L.
14	Cambio, Anna	Clarke, Phyllis J.
15	Cambio, Charles, Estate of	Coelho, Isabel
16	Cambio, William V.	Coelho, Joe A. Jr.
17	Cardoza, Florence	Collins, Howard E.
18	Cardoza, Olivi	Collins, Judith F.
19	Cardoza, Tony	Collinsworth, Ester L.
20	Carnesi, Tom	Collinsworth, John E.
21	Carver, Robt M., Trustee	Collinsworth, Shelby
22	Cauffman, John R.	Cone Estate (05-2-00648/649)
23	Chacon Bros.	Consolidated Freightways Corp.
24	Chancon, Elvera P.	of Delaware
25	Chacon, Joe M.	Corona Farms Co.
26	Chacon, Robert M.	Corra, Rose
27	Chacon, Virginia L.	Costa, Dimas S.
28	Chez, Joseph C.	Costa, Laura EXHIBIT °C"

1	Costa, Myrtle	De Boer, L.H.
2	Costamagna, Antonio	De Boer, Sidney
3	Costamagna, Joseph	De Bos, Andrew
4	Cousyn, Claus B.	De Graaf, Anna Mae
5	Cramer, Carole F.	De Graaf, Gerrit
6	Cramer, William R.	De Groot, Dick
7	Crossroads Auto Dismantlers, Inc.	De Groot, Dorothy
8	Crouse, Beatrice I.	De Groot, Ernest
9	Crouse, Roger	De Groot, Henrietta
10	Crowley, Juanita C.	De Groot, Jake
11	Crowley, Ralph	De Groot, Pete Jr.
12	Cucamonga Vintners	De Haan, Bernadena
13	D'Astici, Teresa	De Haan, Henry
14	Da Costa, Cecilia B.	De Hoog, Adriana
15	Da Costa, Joaquim F.	De Hoog, Joe
16	Daloisio, Norman	De Hoog, Martin
17	De Berard Bros.	De Hoog, Martin L.
18	De Berard, Arthur, Trustee	De Hoog, Mitch
19	De Berard, Charles	De Hoog, Tryntje
20	De Berard, Chas., Trustee	De Jager, Cobi
21	De Berard, Helan J.	De Jager, Edward D.
22	De Berard, Robert	De Jong Brothers Dairy
23	De Berard, Robert Trustee	De Jong, Cornelis
24	De Bie, Adrian	De Jong, Cornelius
25	De Bie, Henry	De Jong, Grace
26	De Bie, Margaret M.	De Jong, Jake
27	De Bie, Marvin	De Jong, Lena
28	De Boer, Fred	De Leeuw, Alice
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1	De Leeuw, Sam	Dirkse, Catherine
2	De Soete, Agnes	Dirkse, Charles C.
3	De Soete, Andre	Dixon, Charles E.
4	De Vries, Abraham	Dixon, Geraldine A.
5	De Vries, Case	Doesberg, Hendrica
б	De Vries, Dick	Doesburg, Theodorus, P.
7	De Vries, Evelyn	Dolan, Marion
8	De Vries, Henry, Estate of	Dolan, Michael H.
9	De Vries, Hermina	Dominguez, Helen
10	De Vries, Jack H.	Dominguez, Manual
11	De Vries, Jane	Donkers, Henry A.
12	De Vries, Janice	Donkers, Nellie G.
13	De Vries, John	Dotta Bros.
14	De Vries, John J.	Douma Brothers Dairy
15	De Vries, Neil	Douma, Betty A.
16	De Vries, Ruth	Douma, Fred A.
17	De Vries, Theresa	Douma, Hendrika
18	De Wit, Gladys	Douma, Herman G.
19	De Wit, Peter S.	Douma, Narleen J.
20	De Wyn, Evert	Douma, Phillip M.
21	De Zoete, Hattie V.	Dow Chemical Co.
22	Do Zoete, Leo A.	Dragt, Rheta
23	Decker, Hallie	Dragt, William
24	Decker, Henry A.	Driftwood Dairy Farm
25	Demmer, Ernest	Droogh, Case
26	Di Carlo, Marie	Duhalde, Marian
27	Di Carlo, Victor	Duhalde, Lauren
28	Di Tommaso, Frank	Duits, Henrietta
		EXHIBIT "C"

1	Duits, John	Excelsior Farms
2	Dunlap, Edna Kraemer,	F.D.I.C. Fagundes, Frank M.
3	Estate of	Fagundes, Mary
4	Durrington, Glen	Fernandes, Joseph Jr.
5	Durrington, William F.	Fernandes, Velma C.
6	Dusi, John Sr.	Ferraro, Ann
7	Dykstra, Dick	Ferreira, Frank J.
8	Dykstra, John	Ferreira, Joe C. Jr.
9	Dykstra, John & Sons	Ferreira, Narcie
10	Dykstra, Wilma	Fillippi, J. Vintage Co.
11	Dyt, Cor	Filippi, Joseph
12	Dyt, Johanna	Filippi, Joseph A.
13	E and S Grape Growers	Filippi, Mary E.
14	Eaton, Thomas, Estate of	Fitzgerald, John R.
15	Echeverria, Juan	Flameling Dairy Inc.
16	Echeverria, Carlos	Flamingo Dairy
17	Echeverria, Pablo	Foss, Douglas E.
18	Eilers, E. Myrle	Foss, Gerald R.
19	Eilers, Henry W.	Foss, Russel
20	El Prado Golf Course	Fred & John Troost No. 1 Inc.
21	Ellsworth, Rex C.	Fred & Maynard Troost No. 2 Inc.
22	Engelsma, Jake	Freitas, Beatriz
23	Engelsma, Susan	Freitas, Tony T.
24	Escojeda, Henry	Gakle, Louis L.
25	Etiwanda Grape Products Co.	Galleano Winery, Inc.
26	Euclid Ave. Investment One	Galleano, Bernard D.
27	Euclid Ave. Investment Four	Galleano, D.
28	Euclid Ave. Three Investment	Galleano, Mary M. EXHIBIT "C"

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1	Garcia, Pete	Hansen, Raymond F.
2	Gardner, Leland V.	Hanson, Ardeth W.
3	Gardner, Lola M.	Harada, James T.
4	Garrett, Leonard E.	Harada, Violet A.
5	Garrett, Patricia T.	Haringa, Earl and Sons
6	Gastelluberry, Catherine	Haringa, Herman
7	Gastelluberry, Jean	Haringa, Rudy
8	Gilstrap, Glen E.	Haringa, William
9	Gilstrap, Marjorie J.	Harper, Cecilia de Mille
10	Godinho, John	Harrington, Winona
11	Godinho, June	Harrison, Jacqueline A.
12	Gonsalves, Evelyn	Hatanaka, Kenichi
13	Gonsalves, John	Heida, Annie
14	Gorzeman, Geraldine	Heida, Don
15	Gorzeman, Henry A.	Heida, Jim
16	Gorzeman, Joe	Heida, Sam
17	Govea, Julia	Helms, Addison D.
18	Goyenetche, Albert	Helms, Irma A.
19	Grace, Caroline E.	Hermans, Alma I.
20	Grace, David J.	Hermans, Harry
21	Gravatt, Glenn W.	Hettinga, Arthur
22	Gravatt, Sally Mae	Hettinga, Ida
23	Greydanus Dairy, Inc.	Hettinga, Judy
24	Greydanus, Rena	Hettinga, Mary
25	Griffin Development Co.	Hettinga, Wilbur
26	Haagsma, Dave	Heublein, Inc., Grocery Products
27	Haagsma, John	Group
28	Hansen, Mary D.	Hibma, Catherine M. EXHIBIT "C"

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1	Hibma, Sidney	Hohberg, Harold C.
2	Hicks, Kenneth I.	Hohberg, Harold W.
3	Hicks, Minnie M.	Holder, Arthur B.
4	Higgins Brick Co.	Holder, Dorothy F.
5	Highstreet, Alfred V.	Holmes, A. Lee
6	Highstreet, Evada V.	Holmes, Frances P.
7	Hilarides, Bertha as Trustee	Hoogeboom, Gertrude
8	Hilarides, Frank	Hoogeboom, Pete
9	Hilarides, John as Trustee	Hoogendam, John
10	Hindelang, Tillie	Hoogendam, Tena
11	Hindelang, William	Houssels, J. K. Thoroughbred
12	Hobbs, Bonnie C.	Farm
13	Hobbs, Charles W.	Hunt Industries
14	Hobbs, Hazel I.	Idsinga, Ann
15	Hobbs, Orlo M.	Idsinga, William W.
16	Hoekstra, Edward	Imbach Ranch, Inc.
17	Hoekstra, George	Imbach, Kenneth E.
18	Hoekstra, Grace	Imbach, Leonard K.
19	Hoekstra, Louie	Imbach, Oscar K.
20	Hofer, Paul B.	Imbach, Ruth M.
21	Hofer, Phillip F.	Indaburu, Jean
22	Hofstra, Marie	Indaburu, Marceline
23	Hogeboom, Jo Ann M.	Iseli, Kurt H.
24	Hogeboom, Maurice D.	Ito, Kow
25	Hogg, David V.	J & B Dairy Inc.
26	Hogg, Gene P.	Jaques, Johnny C. Jr.
27	Hogg, Warren G.	Jaques, Mary
28	Hohberg, Edith J.	Jaques, Mary Lou EXHIBIT "C"

1	Jay Em Bee Farms	Knevelbaard, John
2	Johnson Bro's Egg Ranches, Inc.	Knudsen, Ejnar
3	Johnston, Ellwood W.	Knudsen, Karen M.
4	Johnston, George F. Co.	Knudsen, Kenneth
5	Johnston, Judith H.	Knudson, Robert
6	Jones, Leonard P.	Knudson, Darlene
7	Jongsma & Sons Dairy	Koel, Helen S.
8	Jongsma, Diana A.	Koetsier, Gerard
9	Jongsma, Dorothy	Koetsier, Gerrit J.
10	Jongsma, George	Koetsier, Jake
11	Jongsma, Harold	Koning, Fred W.
12	Jongsma, Henry	Koning, Gloria
13	Jongsma, John	Koning, J. W. Estate
14	Jongsma, Nadine	Koning, James A.
15	Jongsma, Tillie	Koning, Jane
16	Jordan, Marjorie G.	Koning, Jane C.
17	Jordan, Troy O.	Koning, Jennie
18	Jorritsma, Dorothy	Koning, John
19	Juliano, Albert	Koning, Victor A.
20	Kamper, Cornelis	Kooi Holstein Corporation
21	Kamstra, Wilbert	Koolhaas, Kenneth E.
22	Kaplan, Lawrence J.	Koolhaas, Simon
23	Kasbergen, Martha	Koolhaas, Sophie Grace
24	Kasbergen, Neil	Koopal, Grace
25	Kazian, Angelen Estate of	Koopal, Silas
26	Kingsway, Const. Corp.	Koopman, Eka
27	Klapps Market	Koopman, Gene T.
28	Kline, James K.	Koopman, Henry G. EXHIBIT "C"

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1	Koopman, Ted	Leck, Arthur A.
2	Koopman, Tena	Leck, Evelyn M.
3	Koot, Nick	Lee, Harold E.
4	Koster, Aart	Lee, Helen J.
5	Koster, Frances	Lee, Henrietta C.
6	Koster, Henry B.	Lee, R. T. Construction Co.
7	Koster, Nellie	Lekkerkerk, Adriana
8	Kroes, Jake R.	Lekkerkerk, L. M.
9	Kroeze, Bros	Lekkerkerker, Nellie
10	Kroeze, Calvin E.	Lekkerkerker, Walt
11	Kroeze, John	Lewis Homes of California
12	Kroeze, Wesley	Livingston, Dorothy M.
13	Kruckenberg, Naomi	Livingston, Rex E.
14	Kruckenberg, Perry	Lokey, Rosemary Kraemer
15	L. D. S. Welfare Ranch	Lopes, Candida A.
16	Labrucherie, Mary Jane	Lopes, Antonio S.
17	Labrucherie, Raymond F.	Lopez, Joe D.
18	Lako, Samuel	Lourenco, Carlos, Jr.
19	Landman Corp.	Lourenco, Carmelina P.
20	Lanting, Broer	Lourenco, Jack C.
21	Lanting, Myer	Lourenco, Manual H.
22	Lass, Jack	Lourenco, Mary
23	Lass, Sandra L.	Lourenco, Mary
24	Lawrence, Cecelia, Estate of	Luiten, Jack
25	Lawrence, Joe H., Estate of	Luiz, John M.
26	Leal, Bradley W.	Luna, Christine I.
27	Leal, John C.	Luna, Ruben T.
28	Leal, John Craig	Lusk, John D. and Sons EXHIBIT "C" A California corporation

		· · ·
1	Lyon, Gregory E.	Mickel, Louise
2	Lyon, Paula E.	Miersma, Dorothy
3	M & W Co. #2	Meirsma, Harry C.
4	Madole, Betty M.	Minaberry, Arnaud
5	Madole, Larry B.	Minaberry, Marie
6	Marquez, Arthur	Mistretta, Frank J.
7	Marquine, Jean	Mocho and Plaa Inc.
. 8	Martin, Lelon O.	Mocho, Jean
9	Martin, Leon O.	Mocho, Noeline
10	Martin, Maria D.	Modica, Josephine
11	Martin, Tony J.	Montes, Elizabeth
12	Martins, Frank	Montes, Joe
13	Mathias, Antonio	Moons, Beatrice
14	Mc Cune, Robert M.	Moons, Jack
15	Mc Masters, Gertrude	Moramarco, John A. Enterprise
16	Mc Neill, J. A.	Moreno, Louis W.
17	Mc Neill, May F.	Moss, John R.
18	Mees, Leon	Motion Pictures Associates, Inc.
19	Mello and Silva Dairy	Moynier, Joe
20	Mello and Sousa Dairy	Murphy, Frances V.
21	Mello, Emilia	Murphy, Myrl L.
22	Mello, Enos C.	Murphy, Naomi
23	Mello, Mercedes	Nanne, Martin Estate of
24	Mendiondo, Catherine	Nederend, Betty
25	Mendiondo, Dominique	Nederend, Hans
26	Meth. Hosp Sacramento	Norfolk, James
27	Metzger, R. S.	Norfolk, Martha
28	Metzger, Winifred	Notrica, Louis
		EXHIBIT "C"

1	Nyberg, Lillian N.	Ormonde, Viva
2	Nyenhuis, Annie	Ortega, Adeline B.
3	Nyenhuis, Jim	Ortega, Bernard Dino
4	Occidental Land Research	Osterkamp, Joseph S.
5	Okumura, Marion	Osterkamp, Margaret A.
6	Okumura, Yuiche	P I E Water Co.
7	Oldengarm, Effie	Palmer, Eva E.
8	Oldengarm, Egbert	Palmer, Walter E.
9	Oldengarm, Henry	Parente, Luis S.
10	Oliviera, Manuel L.	Parente, Mary Borba
11	Oliviera, Mary M.	Parks, Jack B.
12	Olson, Albert	Parks, Laura M.
13	Oltmans Construction Co.	Patterson, Lawrence E. Estate of
14	Omlin, Anton	Payne, Clyde H.
15	Omlin, Elsie L.	Payne, Margo
16	Ontario Christian School Assn.	Pearson, Athelia K.
17	Oord, John	Pearson, William C.
18	Oostdam, Jacoba	Pearson, William G.
19	Oostdam, Pete	Pene, Robert
20	Oosten, Agnes	Perian, Miller
21	Oosten, Anthonia	Perian, Ona E.
22	Oosten, Caroline	Petrissans, Deanna
23	Oosten, John	Petrissans, George
24	Oosten, Marinus	Petrissans, Jean P.
25	Oosten, Ralph	Petrissans, Marie T.
26	Orange County Water District	Pickering, Dora M.
27	Ormonde, Manuel	(Mrs. A. L. Pickering)
28	Ormonde, Pete, Jr.	Pierce, John
	EAH	IBIT "C"
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1	Pierce, Sadie	Righetti, A. T.
2	Pietszak, Sally	Riley, George A.
3	Pine, Joe	Riley, Helen C.
4	Pine, Virginia	Robbins, Jack K.
5	Pires, Frank	Rocha, John M.
6	Pires, Marie	Rocha, Jose C.
7	Plaa, Jeanne	Rodrigues, John
8	Plaa, Michel	Rodrigues, Manuel
9	Plantenga, Agnes	Rodrigues, Manuel, Jr.
10	Plantenga, George	Rogrigues, Mary L.
11	Poe, Arlo D.	Rodriquez, Daniel
12	Pomona Cemetery Assn.	Rogers, Jack D.
13	Porte, Cecelia, Estate of	Rohrer, John A.
14	Porte, Garritt, Estate of	Rohrer, Theresa D.
15	Portsmouth, Vera McCarty	Rohrs, Elizabeth H.
16	Ramella, Mary M.	Rossetti, M. S.
17	Ramirez, Concha	Roukema, Angeline
18	Rearick, Hildegard H.	Roukema, Ed.
19	Rearick, Richard R.	Roukema, Nancy
20	Reinalda, Clarence	Roukema, Siebren
21	Reitsma, Greta	Ruderian, Max J.
22	Reitsma, Louis	Russell, Fred J.
23	Rice, Bernice	Rusticus, Ann
24	Rice, Charlie E.	Rusticus, Charles
25	Richards, Karin	Rynsburger, Arie
26	(Mrs. Ronnie Richards)	Rynsburger, Berdena, Trust
27	Richards, Ronald L.	Rynsburger, Joan Adele
28	Ridder, Jennie Wassenaar	Rynsburger, Thomas EXHIBIT "C"
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1	S. P. Annex, Inc.	Scott, Frances M.
2	Salisbury, Elinor J.	Scott, Linda F.
3	Sanchez, Edmundo	Scott, Stanley A.
4	Sanchez, Margarita O.	Scritsmier, Lester J.
5	Santana, Joe Sr.	Serl, Charles A.
б	Santana, Palmira	Serl, Rosalie P.
7	Satragni, John B. Jr.	Shady Grove Dairy, Inc.
8	Scaramella, George P.	Shamel, Burt A.
9	Schaafsma Bros.	Shelby, Harold E.
10	Schaafsma, Jennie	Shelby, John A.
11	Schaafsma, Peter	Shelby, Velma M.
12	Schaafsma, Tom	Shelton, Alice A.
13	Schaap, Andy	Sherwood, Robert W.
14	Schaap, Ids	Sherwood, Sheila J.
15	Schaap, Maria	Shue, Eva
16	Schacht, Sharon C.	Shue, Gilbert
17	Schakel, Audrey	Sieperda, Anne
18	Schakel, Fred	Sieperda, James
19	Schmid, Olga	Sigrist, Hans
20	Schmidt, Madeleine	Sigrist, Rita
21	Schoneveld, Evert	Silveira, Arline L.
22	Schoneveld, Henrietta	Silveira, Frank
23	Schoneveld, John	Silveira, Jack
24	Schoneveld, John Allen	Silveira, Jack P. Jr.
25	Schug, Donald E.	Simas, Dolores
26	Schug, Shirley A.	Simas, Joe
27	Schuh, Bernatta M.	Singleton, Dean
28	Schuh, Harold H.	Singleton, Elsie R. EXHIBIT "C"
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1	Sinnott, Jim	Staal, John
2	Sinnott, Mildred B.	Stahl, Zippora P.
3	Slegers, Dorothy	Stampfl, Berta
4	Slegers, Hubert J.	Stampfl, William
5	Slegers, Jake	Stanley, Robert E.
6	Slegers, Jim	Stark, Everett
7	Slegers, Lenwood M.	Stellingwerf, Andrew
8	Slegers, Martha	Stellingwerf, Henry
9	Slegers, Tesse J.	Stellingwerf, Jenette
10	Smith, Edward S.	Stellingwerf, Shana
11	Smith, Helen D.	Stellingwerf, Stan
12	Smith, James E.	Stelzer, Mike C.
13	Smith, Keith J.	Sterk, Henry
14	Smith, Lester W.	Stiefel, Winifred
15	Smith, Lois Maxine	Stiefel, Jack D.
16	Smith, Marjorie W.	Stigall, Richard L.
17	Soares, Eva	Stigall, Vita
18	Sogioka, Mitsuyoshi	Stockman's Inn
19	Sogioka, Yoshimato	Stouder, Charlotte A.
20	Sousa, Sam	Stouder, William C.
21	Southern Pacific Land Co.	Struikmans, Barbara
22	Southfield, Eddie	Struikmans, Gertie
23	Souza, Frank M.	Struikmans, Henry Jr.
24	Souza, Mary T.	Struikmans, Henry Sr.
25	Spickerman, Alberta	Struikmans, Nellie
26	Spickerman, Florence	Swager, Edward
27	Spickerman, Rudolph	Swager, Gerben
28	Spyksma, John	Swager, Johanna EXHIBIT "C"

1	Swager, Marion	Terpstra, Theodore G.
2	Swierstra, Donald	Teune, Tony
3	Swierstra, Fanny	Teunissen, Bernard
4	Sybrandy, Ida	Teunissen, Jane
5	Sybrandy, Simon	Thomas, Ethel M.
6	Sytsma, Albert	Thommen, Alice
7	Sytsma, Edith	Thommen, Fritz
8	Sytsma, Jennie	Tillema, Allie
9	Sytsma, Louie	Tillema, Harold
10	Te Velde, Agnes	Tillema, Klaas D.
11	Te Velde, Bay	Timmons, William R.
12	Te Velde, Bernard A.	Tollerup, Barbara
13	Te Velde, Bonnie	Tollerup, Harold
14	Te Velde, Bonnie G.	Trapani, Louis A.
15	Te Velde, George	Trimlett, Arlene R.
16	Te Velde, George, Jr.	Trimlett, George E.
17	Te Velde, Harm	Tristant, Pierre
18	Te Velde, Harriet	Tuinhout, Ale
19	Te Velde, Henry J.	Tuinhout, Harry
20	Te Velde, Jay	Tuinhout, Hilda
21	Te Velde, Johanna	Tuls, Elizabeth
22	Te Velde, John H.	Tuls, Jack S.
23	Te Velde, Ralph A.	Tuls, Jake
24	Te Velde, Zwaantina, Trustee	Union Oil Company of California
25	Ter Maaten, Case	United Dairyman's Co-op.
26	Ter Maaten, Cleone	Urquhart, James G.
27	Ter Maaten, Steve	Usle, Cathryn
28	Terpstra, Carol	Usle, Faustino
		EXHIBIT "C"

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1	V & Y Properties	Van Hofwegen, Clara
2	Vaile, Beryl M.	Van Hofwegen, Jessie
3	Valley Hay Co.	Van Klaveren, A.
4	Van Beek Dairy Inc.	Van Klaveren, Arie
5	Van Canneyt Dairy	Van Klaveren, Wilhelmina
6	Van Canneyt, Maurice	Van Klaveren, William
7	Van Canneyt, Wilmer	Van Leeuwen, Arie C.
8	Van Dam, Bas	Van Leeuwen, Arie C.
9	Van Dam, Isabelle	Van Leeuwen, Arlan
10	Van Dam, Nellie	Van Leeuwen, Clara G.
11	Van Den Berg, Gertrude	Van Leeuwen, Cornelia L.
12	Van Den Berg, Joyce	Van Leeuwen, Harriet
13	Van Den Berg, Marinus	Van Leeuwen, Jack
14	Van Den Berg, Marvin	Van Leeuwen, John
1.5	Van Der Linden, Ardith	Van Leeuwen, Letie
16	Van Der Linden, John	Van Leeuwen, Margie
17	Van Der Linden, Stanley	Van Leeuwen, Paul
18	Van Der Veen, Kenneth	Van Leeuwen, William A.
19	Van Diest, Anna T.	Van Ravenswaay, Donald
20	Van Diest, Cornelius	Van Ryn Dairy
21	Van Diest, Ernest	Van Ryn, Dick
22	Van Diest, Rena	Van Surksum, Anthonetta
23	Van Dyk, Bart	Van Surksum, John
24	Van Dyk, Jeanette	Van Veen, John
25	Van Foeken, Martha	Van Vliet, Effie
26	Van Foeken, William	Van Vliet, Hendrika
27	Van Hofwegen, Steve	Van Vliet, Hugo
28	Van Hofwegen, Adrian A.	Van Vliet, Klaas EXHIBIT "C"

-53-

1	Vande Witte, George	Vander Laan, Katie
2	Vanden Berge, Gertie	Vander Laan, Martin Jr.
З	Vanden Berge, Gertie	Vander Laan, Tillie
4	Vanden Berge, Jack	Vander Leest, Anna
5	Vanden Berge, Jake	Vander Leest, Ann
6	Vanden Brink, Stanley	Vander Meer, Alice
7	Vander Dussen, Agnes	Vander Meer, Dick
8	Vander Dussen, Cor	Vander Poel, Hank
9	Vander Dussen, Cornelius	Vander Poel, Pete
10	Vander Dussen, Edward	Vander Pol, Irene
11	Vander Dussen, Geraldine Marie	Vander Pol, Margie
12	Vander Dussen, James	Vander Pol, Marines
13	Vander Dussen, John	Vander Pol, William P.
14	Vander Dussen, Nelvina	Vander Schaaf, Earl
15	Vander Dussen, Rene	Vander Schaaf, Elizabeth
16	Vander Dussen, Sybrand Jr.	Vander Schaaf, Henrietta
17	Vander Dussen, Sybrand Sr.	Vander Schaaf, John
18	Vander Dussen Trustees	Vander Schaaf, Ted
19	Vander Eyk, Case Jr.	Vander Stelt, Catherine
20	Vander Eyk, Case Sr.	Vander Stelt, Clarence
21	Vander Feer, Peter	Vander Tuig, Arlene
22	Vander Feer, Rieka	Vander Tuig, Sylvester
23	Vander Laan, Ann	Vander Veen, Joe A.
24	Vander Laan, Ben	Vandervlag, Robert
25	Vander Laan, Bill	Vander Zwan, Peter
26	Vander Laan, Corrie	Vanderford, Betty W.
27	Vander Laan, Henry	Vanderford, Claud R.
28	Vander Laan, James	Vanderham, Adrian
		EXHIBIT "C"

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1	Vanderham, Cornelius	Vestal, J. Howard
2	Vanderham, Cornelius P.	Visser, Gerrit
3	Vanderham, Cory	Visser, Grace
4	Vanderham, E. Jane	Visser, Henry
5	Vanderham, Marian	Visser, Jess
6	Vanderham, Martin	Visser, Louie
7	Vanderham, Pete C.	Visser, Neil
8	Vanderham, Wilma	Visser, Sam
9	Vasquez, Eleanor	Visser, Stanley
10	Veenendaal, Evert	Visser, Tony D.
11	Veenendaal, John H.	Visser, Walter G.
12	Veiga, Dominick, Sr.	Von Der Ahe, Fredric T.
13	Verbree, Jack	Von Euw, George
14	Verbree, Tillie	Von Euw, Majorie
15	Verger, Bert	Von Lusk, a limited partnership
16	Verger, Betty	Voortman, Anna Marie
17	Verhoeven, Leona	Voortman, Edward
18	Verhoeven, Martin	Voortman, Edwin J.
19	Verhoeven, Wesley	Voortman, Gertrude Dena
20	Vermeer, Dick	Wagner, Richard H.
21	Vermeer, Jantina	Walker, Carole R.
22	Vernola Ranch	Walker, Donald E.
23	Vernola, Anthonietta	Walker, Wallace W.
24	Vernola, Anthony	Wardle, Donald M.
25	Vernola, Frank	Warner, Dillon B.
26	Vernola, Mary Ann	Warner, Minnie
27	Vernola, Pat F.	Wassenaar, Peter W.
28	Vestal, Frances Lorraine	Waters, Michael
		EXHIBIT "C"

-55-

1	Weeda, Adriana	Wiersma, Jake
2	Weeda, Daniel	Wiersma, Otto
3	Weeks, O. L.	Wiersma, Pete
4	Weeks, Verona E.	Winchell, Verne H., Trustee
5	Weidman, Maurice	Wind, Frank
6	Weidman, Virginia	Wind, Fred
7	Weiland, Adaline I.	Wind, Hilda
8	Weiland, Peter J.	Wind, Johanna
9	Wesselink, Jules	Woo, Frank
10	West, Katharine R.	Woo, Sem Gee
11	West, Russel	Wybenga, Clarence
12	West, Sharon Ann	Wybenga, Gus
13	Western Horse Property	Wybenga, Gus K.
14	Westra, Alice	Wybenga, Sylvia
15	Westra, Henry	Wynja, Andy
16	Westra, Hilda	Wynja, Iona F.
17	Westra, Jake J.	Yellis, Mildred
18	Weststeyn, Freida	Yellis, Thomas E.
19	Weststeyn, Pete	Ykema-Harmsen Dairy
20	Whitehurst, Louis G.	Ykema, Floris
21	Whitehurst, Pearl L.	Ykema, Harriet
22	Whitmore, David L.	Yokley, Betty Jo
23	Whitmore, Mary A.	Yokley, Darrell A.
24	Whitney, Adolph M.	Zak, Zan
25	Wiersema, Harm	Zivelonghi, George
26	Wiersema, Harry	Zivelonghi, Margaret
27	Wiersma, Ellen H.	Zwaagstra, Jake
28	Wiersma, Gladys J.	Zwaagstra, Jessie M. Zwart, Case
		EXHIBIT "C"

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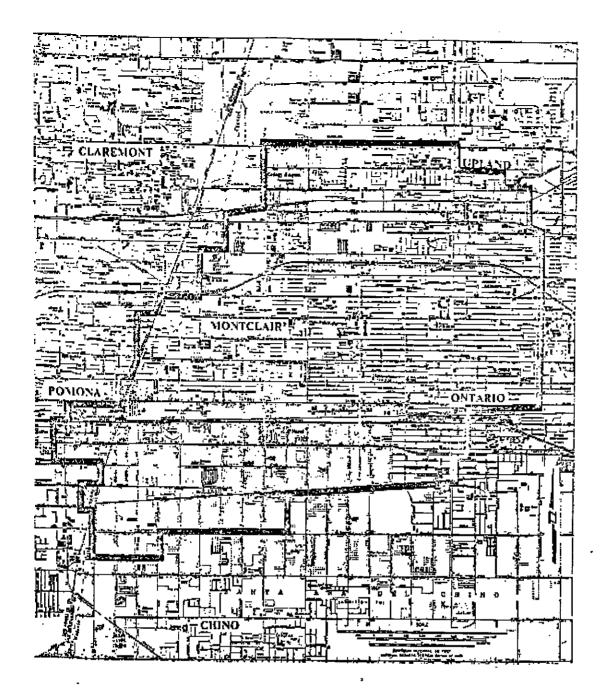
1	NON-PRODUCER WATER DISTRICTS
2	NON TRODUCER WATER DISTRICTS
3	Chino Basin Municipal Water District
4	Chino Basin Water Conservation District
5	Pomona Valley Municipal Water District
6	Western Municipal Water District of Riverside County
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28	EXHIBIT "C"
	- 57 -

DEFAULTING OVERLYING AGRICULTURAL PRODUCERS

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2			
3	Cheryl L. Bain	Roy W. Lantis	
	Warren Bain	Sharon I. Lantis	
4	John M. Barcelona	Frank Lorenz	
5	Letty Bassler	Dagney H. MacDonald	
6	John Brazil	Frank E. Martin	
7	John S. Briano	Ruth C. Martin	
8	Lupe Briano	Connie S. Mello	
9	Paul A. Briano	Naldiro J. Mello	
10	Tillie Briano	Felice Miller	
11	Arnie B. Carlson	Ted Miller	
12	John Henry Fikse	Masao Nerio	
13	Phyllis S. Fikse	Tom K. Nerio	
14	Lewellyn Flory Toyo Nerio		
15	Mary I. Flory Yuriko Nerio		
16	L. H. Glazer	Harold L. Rees	
17	Dorothy Goodman	Man Alden G. Rose	
18	Sidney D. Goodman	Claude Rouleau, Jr.	
19	Frank Grossi	Patricia M. Rouleau	
20	Harada Brothers	Schultz Enterprises	
21	Ellen Hettinga	Albert Shaw	
22	Hein Hettinga	Lila Shaw	
23	Dick Hofstra, Jr.	Cathy M. Stewart	
24	Benjamin M. Hughey	Marvin C. Stewart	
25	Frieda L. Hughey	Betty Ann Stone	
26	Guillaume Indart	John B. Stone	
27	Ellwood B. Johnston, Trustee	Vantoll Cattle Co., Inc.	
28	Perry Kruckenberg, Jr. EXE	y Kruckenberg, Jr. Catherine Verburg EXHIBIT "C"	
	- 58 -		

1	Martin Verburg			
2	Donna Vincent			
3	Larry Vincent			
4	Cliff Wolfe & Associates			
5	Ada M. Woll			
6	Zarubica Co.			
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	EXHIBIT "C"			
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CHINO BASIN

IN LIEU AREA NO. 1

EXHIBIT "J" --B2-

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2		<u>EXHIBIT "D"</u>				
3	OVERLYING NON-AGRICULTURAL RIGHTS					
4		Total Overlying Share of				
5	Party	Non-Agricultural Rights (Acre Feet)	Safe Yield (Acre Feet)			
6	Ameron Steel Producers	125	97.858			
7	County Of San Bernardino	171	133.870			
8	Conrock Company	406	317.844			
9	Kaiser Steel Corporation	3,743	2,930.274			
10	Red Star Fertilizer	20	15.657			
11	Southern California Edison Co.	1,255	982.499			
12	Space Center, Mira Loma	133	104.121			
13	Southern Service Co., dba					
14	Blue Seal Linen	24	18.789			
15	Sunkist, Orange Products Division	2,393	1,873.402			
16	Carlsberg Mobile Home Properties,					
17	Ltd. '73	593	464.240			
18	Union Carbide Corporation	546	427.446			
19	Quaker Chemical Co.	0	0			
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21	Totals	9,409	7,366.00			
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	EX	KHIBIT "D"				
	- 60 -					

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2	EXHIBIT "E" APPROPRIATIVE RIGHTS			
	Share of			
3 4	Party	Appropriative <u>Right</u> (Acre Feet)	Initial Operating <u>Safe Yield</u> (Acre Feet)	Share of Operating Safe Yield (Percent)
5	City of Chino	5,271.7	3,670.067	6.693
6	City of Norco	289.5	201.545	0.368
7	City of Ontario	16,337.4	11,373.816	20.742
	City of Pomona	16,110.5	11,215.852	20.454
8	City of Upland	4,097.2	2,852.401	5.202
9	Cucamonga County Water District	4,431.0	3,084.786	5.626
10	Jurupa Community Services District	1,104.1	768.655	1.402
11 12	Monte Vista County Water District	5,958.7	4,148.344	7.565
13	West San Bernardino County Water District	925.5	644.317	1.175
14	Etiwanda Water Company	76B.O	534.668	0.975
15	Felspar Gardens Mutual Water Company	68.3	47.549	0.087
16	Fontana Union Water Co.	9,188.3	6,396.736	11.666
17	Marygold Mutual Water Co.	941.3	655.317	1.195
18	Mira Loma Water Co.	1,116.0	776.940	1.417
19	Monte Vista Irr. Co,	972.1	676.759	1.234
20	Mutual Water Company of Glen Avon Heights	672.2	467.974	0.853
21	Park Water Company	236.1	164.369	0.300
22	Pomona Valley Water Co.	3,106.3	2,162.553	3.944
23	San Antonio Water Co.	2,164.5	2,506.888	2.748
24	Santa Ana River Water Company	1,869.3	1,301.374	2.373
25	Southern California Water Company	1,774.5	1,235.376	2.253
26	West End Consolidated Water Company	1,361.3	947.714	<u>1.728</u>
27	TOTAL	78,763.8	54,834.000	100.000
28	EXHIBIT 'E'			

EXHIBIT "F" OVERLYING (AGRICULTURAL) POOL POOLING PLAN

<u>Membership in Pool</u>. The State of California and all pro ducers listed in Exhibit "C" shall be the initial members of this
 pool, which shall include all producers of water for overlying
 uses other than industrial or commercial purposes.

7 2. <u>Pool Meetings</u>. The members of the pool shall meet 8 annually, in person or by proxy, at a place and time to be desig-9 nated by Watermaster for purposes of electing members of the Pool 10 Committee and conducting any other business of the pool. Special 11 meetings of the membership of the pool may be called and held as 12 provided in the rules of the pool.

3. <u>Voting</u>. All voting at meetings of pool members shall be
on the basis of one vote for each 100 acre feet or any portion
thereof of production from Chino Basin during the preceding year,
as shown by the records of Watermaster.

17 4. Pool Committee. The Pool Committee for this pool shall 18 consist of not less than nine (9) representatives selected at 19 large by members of the pool. The exact number of members of the 20 Pool Committee in any year shall be as determined by majority vote of the voting power of members of the pool in attendance at the 21 annual pool meeting. Each member of the Pool Committee shall have 22 23 one vote and shall serve for a two-year term. The members first 24 elected shall classify themselves by lot so that approximately 25 one-half serve an initial one-year term. Vacancies during any term shall be filled by a majority of the remaining members of the 26 Pool Committee. 27

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Advisory Committee Representatives. The number of

EXHIBIT "F"

representatives of the Pool Committee on the Advisory Committee
 shall be as provided in the rules of the pool from time to time
 but not exceeding ten (10). The voting power of the pool on the
 Advisory Committee shall be apportioned and exercised as deter mined from time to time by the Pool Committee.

6. Replenishment Obligation. 6 The pool shall provide funds for replenishment of any production by persons other than members 7 8 of the Overlying (Non-agricultural) Pool or Appropriator Pool, in 9 excess of the pool's share of Safe Yield. During the first five (5) years of operations of the Physical Solution, reasonable 10 efforts shall be made by the Pool Committee to equalize annual 11 assessments. 12

13 7. Assessments. All assessments in this pool (whether for 14 replenishment water cost or for pool administration or the allo-15 cated share of Watermaster administration) shall be in an amount 16 uniformly applicable to all production in the pool during the 17 preceding year or calendar quarter. Provided, however, that the 18 Agricultural Pool Committee, may recommend to the Court modifica-19 tion of the method of assessing pool members, inter se, if the 20 same is necessary to attain legitimate basin management objectives, including water conservation and avoidance of undesirable socio-21 economic consequences. Any such modification shall be initiated 22 and ratified by one of the following methods: 23

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(a) <u>Excess Production</u>. - In the event total pool production exceeds 100,000 acre feet in any year, the Pool Committee shall call and hold a meeting, after notice to all pool members, to consider remedial modification of the assessment formula.

EXHIBIT "F"

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2	(b) <u>Producer Petition</u> At any time after the fifth			
ļ	full year of operation under the Physical Solution, a peti-			
3	tion by ten percent (10%) of the voting power or membership			
4	of the Pool shall compel the holding of a noticed meeting			
5	to consider revision of said formula of assessment for re-			
6	plenishment water.			
7	In either event, a majority action of the voting power in attend-			
8	ance at such pool members' meeting shall be binding on the Pool			
9	Committee.			
10	8. <u>Rules</u> . The Pool Committee shall adopt rules for con-			
11	ducting meetings and affairs of the committee and for adminis-			
12	tering its program and in amplification of the provisions, but not			
13	inconsistent with, this pooling plan.			
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	EXHIBIT "F"			
	- 64 -			

 EXHIBIT "G"

 OVERLYING (NON-AGRICULTURAL) POOL

 POOLING PLAN

1. <u>Membership in Pool</u>. The initial members of the pool,
together with the decreed share of the Safe Yield of each, are
listed in Exhibit "D". Said pool includes producers of water for
overlying industrial or commercial (non-agricultural) purposes, or
such producers within the Pool who may hereafter take water pursuant to Paragraph 8 hereof.

9 2. <u>Pool Committee</u>. The Pool Committee for this pool shall
10 consist of one representative designated by each member of the
11 pool. Voting on the committee shall be on the basis of one vote
12 for each member, unless a volume vote is demanded, in which case
13 votes shall be allocated as follows:

The volume voting power on the Pool Committee shall be 1,484 votes. Of these, 742 votes shall be allocated on the basis of one vote for each ten (10) acre feet or fraction thereof of decreed shares in Safe Yield. (See Exhibit "D") The remaining 742 votes shall be allocated proportionally on the basis of assessments paid to Watermaster during the preceding year.*

3. <u>Advisory Committee Representatives</u>. At least three (3)
members of the Pool Committee shall be designated by said committee
to serve on the Advisory Committee. The exact number of such
representatives at any time shall be as determined by the Pool
Committee. The voting power of the pool shall be exercised in the

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*Or production assessments paid under Water Code Section 72140 et seq., as to years prior to the second year of operation under the Physical Solution hereunder. Advisory Committee as a unit, based upon the vote of a majority of
 said representatives.

4. <u>Replenishment Obligation</u>. The pool shall provide funds
for replenishment of any production in excess of the pool's share
of Safe Yield in the preceding year.

6 5. Assessment. Each member of this pool shall pay an assess-7 ment equal to the cost of replenishment water times the number of 8 acre feet of production by such producer during the preceding year in excess of (a) his decreed share of the Safe Yield, plus (b) any 9 10 carry-over credit under Paragraph 7 hereof. In addition, the cost 11 of the allocated share of Watermaster administration expense shall 12 be recovered on an equal assessment against each acre foot of 13 production in the pool during such preceding fiscal year or calen-14 dar quarter; and in the case of Pool members who take substitute 15 ground water as set forth in Paragraph 8 hereof, such producer 16 shall be liable for its share of administration assessment, as if 17 the water so taken were produced, up to the limit of its decreed 18 share of Safe Yield.

19 6: Rights herein decreed are appurtenant to the Assignment. land and are only assignable with the land for overlying use 20 21 thereon; provided, however, that any appropriator who may, directly 22 or indirectly, undertake to provide water service to such overlying 23 lands may, by an appropriate agency agreement on a form approved by 24 Watermaster, exercise said overlying right to the extent, but only 25 to the extent necessary to provide water service to said overlying 26 lands.

27 7. <u>Carry-over</u>. Any member of the pool who produces less
28 than its assigned water share of Safe Yield may carry such unexercised

EXHIBIT "G" -66-

1 right forward for exercise in subsequent years. The first water 2 produced during any such subsequent year shall be deemed to be an 3 exercise of such carry-over right. In the event the aggregate carry-over by any pool member exceeds its share of Safe Yield, such 4 5 member shall, as a condition of preserving such surplus carry-over, 6 execute a storage agreement with Watermaster. 7 8. Substitute Supplies. To the extent that any Pool member, at the request of Watermaster and with the consent of the Advisory 8 9 Committee, takes substitute surface water in lieu of producing 10 ground water otherwise subject to production as an allocated share 11 of Safe Yield, said party shall nonetheless remain a member of this 12 Pool. 13 9. Rules. The Pool Committee shall adopt rules for adminis-14 tering its program and in amplification of the provisions, but not 15 inconsistent with, this pooling plan. 16 17 18 19 20 21 22 23 24 25 26 27 28 EXHIBIT "G" -67EXHIBIT "H" APPROPRIATIVE POOL ____ POOLING PLAN

3 Qualification for Pool. 1. Any city, district or other 4 public entity and public utility -- either regulated under Public Utilities Commission jurisdiction, or exempt therefrom as a non-5 profit mutual water company (other than those assigned to the 6 Overlying (Agricultural) Pool) -- shall be a member of this pool. 7 All initial members of the pool are listed in Exhibit "E", together 8 with their respective appropriative rights and acre foot allocation 9 and percentage shares of the initial and subsequent Operating Safe 10 Yield. 11

12 2. <u>Pool Committee</u>. The Pool Committee shall consist of one
13 (1) representative appointed by each member of the Pool.

14 з. The total voting power on the Pool Committee Voting. shall be 1,000 votes. Of these, 500 votes shall be allocated in 15 proportion to decreed percentage shares in Operating Safe Yield. 16 The remaining 500 votes shall be allocated proportionally on the 17 basis of assessments paid to Watermaster during the preceding 18 year.* Routine business of the Pool Committee may be conducted on 19 the basis of one vote per member, but upon demand of any member a 20 weighted vote shall be taken. Affirmative action of the Committee 21 shall require a majority of the voting power of members in attend-22 ance, provided that it includes concurrence by at least one-third 23 of its total members. 24

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Advisory Committee Representatives. Ten (10) members of

27 *Or production assessments paid under Water Code Section 72140 et seq., as to years prior to the second year of operation under 28 the Physical Solution hereunder.

EXHIBIT "H"

1 the Pool Committee shall be designated to represent this pool on 2 the Advisory Committee. Each major appropriator, i.e., the owner 3 of an adjudicated appropriative right in excess of 3,000 acre feet, 4 shall be entitled to one representative. The remaining members 5 representing the Appropriative Pool on the Advisory Committee shall 6 be elected at large by the remaining members of the pool. The 7 voting power of the Appropriative Pool on the Advisory Committee shall be apportioned between the major appropriator representatives 8 in proportion to their respective voting power in the Pool Comm-9 ittee. The remaining two representatives shall exercise equally 10 11 the voting power proportional to the Pool Committee voting power of all remaining appropriators; provided, however, that if any 12 representative fails to attend an Advisory Committee meeting, the 13 14 voting power of that representative shall be allocated among the representatives of the Appropriator Pool in attendance in the same 15 proportion as their own respective voting powers. 16

17 5. <u>Replenishment Obligation</u>. The pool shall provide funds
18 for purchase of replenishment water to replace any production by
19 the pool in excess of Operating Safe Yield during the preceding
20 year.

6. <u>Administrative Assessment</u>. Costs of administration of
this pool and its share of general Watermaster expense shall be
recovered by a uniform assessment applicable to all production
during the preceding year.

7. <u>Replenishment Assessment</u>. The cost of replenishment water
required to replace production from Chino Basin in excess of
Operating Safe Yield in the preceding year shall be allocated and recovered
as follows:

-69-

(a) For production, other than for increased export,within CBMWD or WMWD:

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(1) <u>Gross Assessment</u>. 15% of such replenishment water costs shall be recovered by a uniform assessment against all production of each appropriator producing in said area during the preceding year.

(2) <u>Net Assessment</u>. The remaining 85% of said costs shall be recovered by a uniform assessment on each acre foot of production from said area by each such appropriator in excess of his allocated share of Operating Safe Yield during said preceding year.

(b) For production which is exported for use outside Chino Basin in excess of maximum export in any year through 1976, such increased export production shall be assessed against the exporting appropriator in an amount sufficient to purchase replenishment water from CBMWD or WMWD in the amount of such excess.

(c) For production within SBVMWD or PVMWD:

By an assessment on all production in excess of an appropriator's share of Operating Safe Yield in an amount sufficient to purchase replenishment water through SBVMWD or MWD in the amount of such excess.

8. <u>Socio-Economic Impact Review</u>. The parties have conducted
certain preliminary socio-economic impact studies. Further and
more detailed socio-economic impact studies of the assessment
formula and its possible modification shall be undertaken for the
Appropriator Pool by Watermaster no later than ten (10) years from
the effective date of this Physical Solution, or whenever total

EXHIBIT "H"

-70-

production by this pool has increased by 30% or more over the
 decreed appropriative rights, whichever is first.

9. <u>Facilities Equity Assessment</u>. Watermaster may, upon
recommendation of the Pool Committee, institute proceedings for
levy and collection of a Facilities Equity Assessment for the
purposes and in accordance with the procedures which follow:

(a) Implementing Circumstances. - There exist several sources of supplemental water available to chino Basin, each of which has a differential cost and quantity available. The optimum management of the entire Chino Basin water resource favors the maximum use of the lowest cost supplemental water to balance the supplies of the Basin, in accordance with the Physical Solution. The varying sources of supplemental water include importations from MWD and SBVMWD, importation of surface and ground water supplies from other basins in the immediate vicinity of Chino Basin, and utilization of reclaimed water. In order to fully utilize any of such alternate sources of supply, it will be essential for particular appropriators having access to one or more of such supplies to have invested, or in the future to invest, directly or indirectly, substantial funds in facilities to obtain and deliver such water to an appropriate point of use. To the extent that the use of less expensive alternative sources of supplemental water can be maximized by the inducement of a Facilities Equity Assessment, as herein provided, it is to the long-term benefit of the entire basin that such assessment be authorized and levied by Watermaster.

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(b) Study and Report. - At the request of the Pool

EXHIBIT "H"

Committee, Watermaster shall undertake a survey study of the utilization of alternate supplemental supplies by members of the Appropriative Pool which would not otherwise be utilized and shall prepare a report setting forth the amount of such alternative supplies being currently utilized, the amount of such supplies which could be generated by activity within the pool, and the level of cost required to increase such uses and to optimize the total supplies available to the basin. Said report shall contain an analysis and recommendation for the levy of a necessary Facilities Equity Assessment to accomplish said purpose.

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(c) <u>Hearing</u>. - If the said report by Watermaster contains a recommendation for imposition of a Facilities Equity Assessment, and the Pool Committee so requests, Watermaster shall notice and hold a hearing not less than 60 days after distribution of a copy of said report to each member of the pool, together with a notice of the hearing date. At such hearing, evidence shall be taken with regard to the necessity and propriety of the levy of a Facilities Equity Assessment and full findings and decision shall be issued by Watermaster.

(d) <u>Operation of Assessment</u>. - If Watermaster determines that it is appropriate that a Facilities Equity Assessment be levied in a particular year, the amount of additional supplemental supplies which should be generated by such assessment shall be estimated. The cost of obtaining such supplies, taking into consideration the investment in necessary facilities shall then be determined and spread equitably among the producers within the pool in a manner so that those

EXHIBIT "H"

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producers not providing such additional lower cost supplemental water, and to whom a financial benefit will result, may bear a proportionate share of said costs, not exceeding said benefit; provided that any producer furnishing such supplemental water shall not thereby have its average cost of water in such year reduced below such producer's average cost of pumping from the Basin. In so doing, Watermaster shall establish a percentage of the total production by each party which may be produced without imposition of a Facilities Equity Assessment. Any member of the pool producing more water than said percentage shall pay such Facilities Equity Assessment on any such excess production. Watermaster is authorized to transmit and pay the proceeds of such Facilities Equity Assessment to those producers who take less than their share of Basin water by reason of furnishing a higher percentage of their requirements through use of supplemental water.

18 10. <u>Unallocated Safe Yield Water</u>. To the extent that, in any 19 five years, any portion of the share of Safe Yield allocated to 20 the Overlying (Agricultural) Pool is not produced, such water shall 21 be available for reallocation to members of the Appropriative Pool, 22 as follows:

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 (a) <u>Priorities</u>. - Such allocation shall be made in the following sequence:

(1) to supplement, in the particular year, water
available from Operating Safe Yield to compensate for any
reduction in the Safe Yield by reason of recalculation
thereof after the tenth year of operation hereunder.

EXHIBIT "H"

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(2) pursuant to conversion claims as defined inSubparagraph (b) hereof.

(3) as a supplement to Operating Safe Yield,without regard to reductions in Safe Yield.

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(b) <u>Conversion Claims</u>. - The following procedures may be utilized by any appropriator:

(1) <u>Record of Land Use Conversion</u>. Any appropriator who undertakes, directly or indirectly, during any year, to permanently provide water service to lands which during the immediate preceding five (5) consecutive years was devoted to irrigated agriculture may report such change in land use or water service to Watermaster. Watermaster shall thereupon verify such change in water service and shall maintain a record and account for each appropriator of the total acreage involved and the average annual water use during said five-year period.

(2) Establishment of Allocation Percentage. In any year in which unallocated Safe Yield water from the Overlying (Agricultural) Pool is available for such conversion claims, Watermaster shall establish allocable percentages for each appropriator based upon the total of such converted acreage recorded to each such appropriator's account.

(3) <u>Allocation and Notice</u>. Watermaster shall thereafter apply the allocated percentage to the total unallocated Safe Yield water available for special allocation to derive the amount thereof allocable to

EXHIBIT "H"

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each appropriator; <u>provided</u> that in no event shall the allocation to any appropriator as a result of such conversion claim exceed 50% of the average annual amount of water actually applied to the areas converted by such appropriator prior to such conversion. Any excess water by reason of such limitation on any appropriator's right shall be added to Operating Safe Yield. Notice of such special allocation shall be given to each appropriator and shall be treated for purposes of this Physical Solution as an addition to such appropriator's share of the Operating Safe Yield for the particular year only.

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12 (4) Administrative Costs. Any costs of Water-13 master attributable to administration of such special 14 allocations and conversion claims shall be assessed 15 against appropriators participating in such reporting. 16 11. In Lieu Procedures. There are, or any develop, certain areas within Chino Basin where good management practices dictate 17 that recharge of the basin be accomplished, to the extent prac-18 tical, by taking surface supplies of supplemental water in lieu of 19 ground water otherwise subject to production as an allocated share 20 of Operating Safe Yield. 21

(a) <u>Method of Operation</u>. - An appropriator producing water within such designated in lieu area who is willing to abstain for any reason from producing any portion of such producer's share of Operating Safe Yield in any year may offer such unpumped water to Watermaster. In such event, Watermaster shall purchase said water in place, in lieu of spreading replenishment water, which is otherwise required to

EXHIBIT "H"

-75-

1 make up for over production. The purchase price for in lieu 2 water shall be the lesser of: 3 (1)Watermaster's current cost of replenishment 4 water, whether or not replenishment water is currently 5 then obtainable, plus the cost of spreading; or 6 (2)The cost of supplemental surface supplies to 7 the appropriator, less 8 a. said appropriator's average cost of q ground water production, and 10 b. the applicable production assessment 11 were the water produced. 12 Where supplemental surface supplies consist of MWD or 13 SBVMWD supplies, the cost of treated, filtered State 14 water from such source shall be deemed the cost of 15 supplemental surface supplies to the appropriator for 16 purposes of such calculation. In any given year in which payments may be made pursuant to 17 18 a Facilities Equity Assessment, as to any given quantity of 19 water the party will be entitled to payment under this 20 section or pursuant to the Facilities Equity Assessment, as the party elects, but not under both. 21 Designation of In Lieu Areas. - The first in lieu 22 (b) area is designated as the "In Lieu Area No. 1" and consists 23 24 of an area wherein nitrate levels in the ground water generally exceed 45 mg/l, and is shown on Exhibit "J" hereto. 25 Other in lieu areas may be designated by subsequent order of 26 Watermaster upon recommendation or approval by Advisory 27 Committee. Said in lieu areas may be enlarged, reduced or 28 EXHIBIT "H"

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eliminated by subsequent orders; provided, however, that designation of In Lieu Areas shall be for a minimum fixed term sufficient to justify necessary capital investment. In Lieu Area No. 1 may be enlarged, reduced or eliminated in the same manner, except that any reduction of its original size or elimination thereof shall require the prior order of Court.

8 12. Carry-over. Any appropriator who produces less than his assigned share of Operating Safe Yield may carry such unexercised 9 10 right forward for exercise in subsequent years. The first water produced during any such subsequent year shall be deemed to be an 11 exercise of such carry-over right. In the event the aggregate 12 13 carry-over by any appropriator exceeds its share of Operating Safe Yield, such appropriator shall, as a condition of preserving such $\mathbf{14}$ 15 surplus carry-over, execute a storage agreement with Watermaster. 16 Such appropriator shall have the option to pay the gross assessment applicable to such carry-over in the year in which it accrued. 17

13. 18 Assignment, Transfer and Lease. Appropriative rights, and corresponding shares of Operating Safe Yield, may be assigned 19 or may be leased or licensed to another appropriator for exercise 20 in a given year. Any transfer, lease or license shall be ineffec-21 tive until written notice thereof is furnished to and approved as 22 to form by Watermaster, in compliance with applicable Watermaster 23 rules. Watermaster shall not approve transfer, lease or license of 24 a right for exercise in an area or under conditions where such 25 production would be contrary to sound basin management or detri-26 mental to the rights or operations of other producers. 27

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14. Rules. The Pool Committee shall adopt rules for

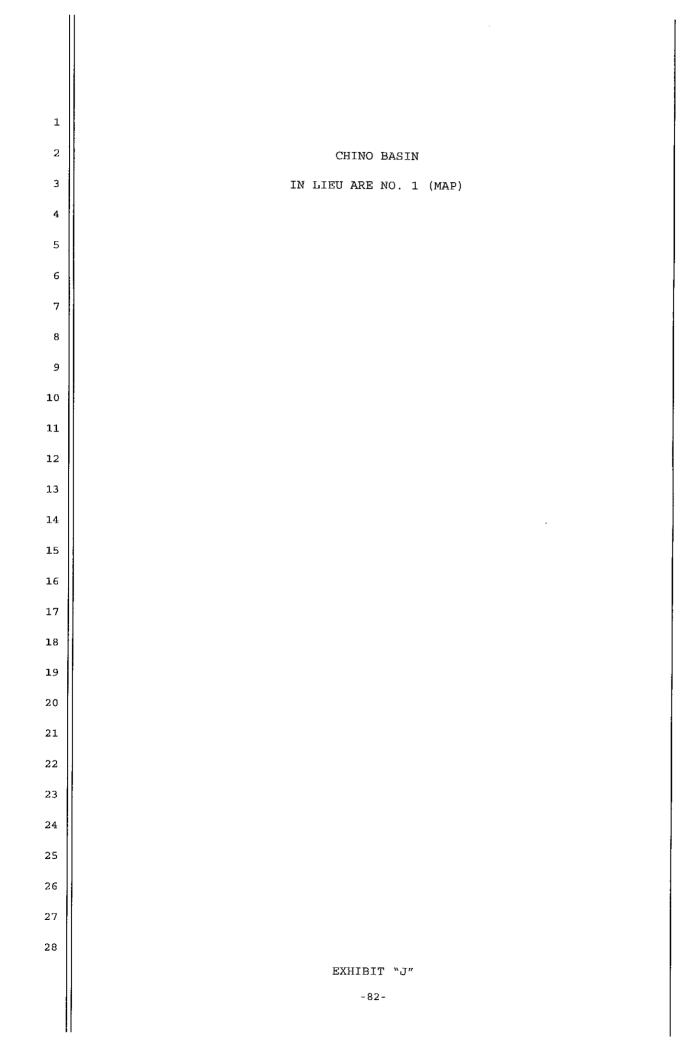
EXHIBIT "H"

1	administering its program and in amplification of the provisions,
2	but not inconsistent with, this pooling plan.
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	EXHIBIT "H"
	-78-

1	EXHIBIT "I"		
2	ENGINEERING APPENDIX		
3	1. Basin Management Parameters. In the process of imple-		
4	menting the physical solution for Chino Basin, Watermaster shall		
5	consider the following parameters:		
6	(a) <u>Pumping Patterns</u> Chino Basin is a common supply		
7	for all persons and agencies utilizing its waters. It is an		
8	objective in management of the Basin's waters that no pro-		
9	ducer be deprived of access to said waters by reason of		
10	unreasonable pumping patterns, nor by regional or localized		
1 1	recharge of replenishment water, insofar as such result may		
12	be practically avoided.		
13	(b) <u>Water Quality</u> Maintenance and improvement of		
14	water quality is a prime consideration and function of		
1 5	management decisions by Watermaster.		
16	(c) <u>Economic Considerations</u> Financial feasibility,		
17	economic impact and the cost and optimum utilization of the		
18	Basin's resources and the physical facilities of the parties		
19	are objectives and concerns equal in importance to water		
20	quantity and quality parameters.		
21	2. Operating Safe Yield. Operating Safe Yield in any year		
22	shall consist of the Appropriative Pool's hare of Safe Yield of		
23	the Basin, plus any controlled overdraft of the Basin which		
24	Watermaster may authorize. In adopting the Operating Safe Yield		
25	for any year, Watermaster shall be limited as follows:		
26	(a) <u>Accumulated Overdraft</u> During the operation of		
27	this Judgment and Physical Solution, the overdraft accumu-		
28	lated from and after the effective date of the Physical		
	EXHIBIT "I"		

1 Solution and resulting from an excess of Operating Safe Yield 2 over Safe Yield shall not exceed 200,000 acre feet. 3 (b) Quantitative Limits. - In no event shall Operating Safe Yield in any year be less than the Appropriative Pool's 4 5 share of Safe Yield, nor shall it exceed such share of Safe 6 Yield by more than 10,00 acre feet. The initial Operating 7 Safe Yield is hereby set at 54,834 acre feet per year. 8 Operating Safe Yield shall not be changed upon less than five 9 (5) years' notice by Watermaster. 10 Nothing contained in this paragraph shall be deemed to authorize, 11 directly or indirectly, any modification of the allocation of 12 shares in Safe Yield to the overlying pools, as set forth in 13 Paragraph 44 of the Judgment. 14З. Ground Water Storage Agreements. Any agreements authorized by Watermaster for storage of supplemental water in the 15 16 available ground water storage capacity of Chino Basin shall 17 include, but not be limited to: 18 (a) The quantities and term of the storage right. 19 (b) A statement of the priority or relation of said right, as against overlying or Safe Yield uses, and other 20 storage rights. 21 The procedure for establishing delivery rates, 22 (c) 23 schedules and procedures which may include: 24 [1]spreading or injection, or 25 in lieu deliveries of supplemental water for [2] 26 direct use. 27 (d) The procedures for calculation of losses and annual 28 accounting for water in storage by Watermaster. EXHIBIT "I" -80-

1	(e) The procedures for establishment and adminis-
2	tration of withdrawal schedules, locations and methods.
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	EXHIBIT "I"
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1	LEGAL DESCRIPTION
2	OF CHINO BASIN
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5	Preamble
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8	All of the townships and ranges referred to in the following legal description are the San Bernardino Base and Meridian. Certain designated
9	sections are implied as the System of Government Surveys may be extended where not established. Said sections are identified as follows:
10	Section 20 TIN Denis extended errors
11	Section 20, T1N, R8W is extended across Rancho Cucamonga;
12 13	Section 36, T1N, R8W is extended across the City of Upland;
14	Sections 2,3, and 4, T1S, R7W are extended across Rancho Cucamonga;
15	Section 10, T1S, R8W is extended across the City of Claremont;
16	Sections 19, 20, 21, 30, 31 and 32, T1S, R8W are
17	extended across the City of Pomona;
18	Sections 4, 5, and 28, T2S, R8W are extended across Rancho Santa Ana Del Chino;
19	Sections 15 and 16, T3S, R7W are extended across Rancho La Sierra; and
20	Sections 17 and 20, T3S, R7W are extended across
21	Rancho El Rincon.
22	Description
23	Chino Basin is included within portions of the Counties of San Bernardino, Riverside and Los Angeles, State of
24	California, bounded by a continuous line described as follows:
25	BEGINNING at the Southwest corner of Lot 241 as shown on Map of Ontario Colony Lands, recorded in Map Book 11,
26	page 6, Office of the County Recorder of San Bernardino County, said corner being the Point of Beginning;
27	1. Thence Southeasterly to the Southeast corner
28	EXHIBIT "K"
	-83-

1 of Lot 419 of said Ontario Colony Lands; 2 Thence Southeasterly to a point 1300 feet 2. North of the South line and 1300 feet East of the West 3 line of Section 4, T1S, R7W; 3. Thence Easterly to a point on the East line of 4 Section 4, 1800 feet North of the Southeast corner of said Section 4; 5 Thence Easterly to the Southeast corner of the 4. б Southwest quarter of the Northeast quarter of Section 3, T1S, R7W; 7 5. Thence Northeasterly to a point on the North 8 line of Section 2, T1S, R7W, 1400 feet East of the West line of said Section 2; 9 Thence Northeasterly to the Southwest corner 6. 10 of Section 18, T1N, R6W; 11 7. Thence Northerly to the Northwest corner of said Section 18; 12 8. Thence Easterly to the Northeast corner of said Section 18; 13 Thence Northerly to the Northwest corner of 14 9. the Southwest Quarter of Section 8, T1N, R6W; 15 Thence Easterly to the Northeast corner of 10. said Southwest quarter of said Section 8; 16 Thence Southerly to the Southeast corner of 11. 17 said Southwest Quarter of said Section 8; 18 12. Thence Easterly to the Northeast corner of Section 17, T1N, R6W; 19 Thence Easterly to the Northeast corner of 13. 20 Section 16, T1N, R6W; 21 Thence Southeasterly to the Northwest corner 14. of the Southeast quarter of Section 15, T1N, R6W; 22 15. Thence Easterly to the Northeast corner of 23 said Southeast quarter of said Section 15; Thence Southeasterly to the Northwest corner 24 16. of the Northeast quarter of Section 23, T1N, R6W; 25 Thence Southeasterly to the Northwest corner 17. of Section 25, T1N, R6W; 26 27 28 EXHIBIT "K"

1 18. Thence Southeasterly to the Northwest corner of the Northeast quarter of Section 31, T1N, R5W; 2 Thence Southeasterly to the Northeast corner 19. of the Northwest quarter of Section 5, T1S, R5W; 3 20. Thence Southeasterly to the Southeast corner 4 of Section 4, T1S, R5W; 5 Thence Southeasterly to the Southeast corner 21. of the Southwest quarter of Section 11, T1S, R5W; 6 Thence Southwesterly to the Southwest corner 22. 7 of Section 14, T1S, R5W; 8 Thence Southwest to the Southwest corner of 23. Section 22, T1S, R5W; 9 Thence Southwesterly to the Southwest 24. 10 corner of the Northeast quarter of Section 6, T2S, R5W; 11 Thence Southeasterly to the Northeast corner 25. 12 of Section 18, T2S, R5W; Thence Southwesterly to the Southwest corner 13 26. of the Southeast quarter of Section 13, T2S, R6W; 14 27 Thence Southwesterly to the Southwest corner of the Northeast quarter of Section 26, T2S, R6W; 15 28. Thence Westerly to the Southwest corner of 16 the Northwest quarter of said Section 26; 17 29. Thence Northerly to the Northwest corner of said Section 26; 18 30. Thence Westerly to the Southwest corner of 19 Section 21, T2S, R6W; 20 Thence Southerly to the Southeast corner of 31. Section 29, T2S, R6W; 21 Thence Westerly to the Southeast corner of 32. 22 Section 30, T2S, R6W; 23 Thence Southwesterly to the Southwest corner 33. of Section 36, T2S, R7W; 24 34. Thence Southwesterly to the Southeast corner of Section 3, T3S, R7W; 25 Thence Southwesterly to the Southwest corner 35. 26 of the Northeast quarter of Section 10, T3S, R7W; 27 28 EXHIBIT "K"

1	36. Thence Southerly to the Northeast corner of			
2	the Northwest quarter of Section 15, T3S, R7W;			
3	37. Thence Southwesterly to the Southeast corner of the Northeast quarter of Section 16, T3S, R7W;			
4	38. Thence Southwesterly to the Southwest corner of said Section 16;			
5	39. Thence Southwesterly to the Southwest corner			
6	of the Northeast quarter of Section 20, T3S, R7W;			
7	40. Thence Westerly to the Southwest corner of the Northwest quarter of said Section 20;			
8	41. Thence Northerly to the Northwest corner of			
9	Section 17, T3S, R7W;			
10	42. Thence Westerly to the Southwest corner of Section 7, T3S, R7W;			
11	43. Thence Northerly to the Southwest corner of Section 6, T3S, R7W;			
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13	44. Thence Westerly to the Southwest corner of Section 1, T3S, R8W;			
14	45. Thence Northerly to the Southeast corner of Section 35, T2S, R8W;			
15 16	46. Thence Northwesterly to the Northwest corner of said Section 35;			
17	47. Thence Northerly to the Southeast corner of			
18	Lot 33, as shown on Map of Tract 3193, recorded in Map Book 43, pages 46 and 47, Office of the County Recorder of San Bernardino County;			
19	48. Thence Westerly to the Northwest corner of			
20	the Southwest quarter of Section 28, T2S, R8W;			
21	49. Thence Northerly to the Southwest corner of Section 4, T2S, R8W;			
22	50. Thence Westerly to the Southwest corner of			
23	Section 5, T2S, R8W;			
24	51. Thence Northerly to the Southwest corner of Section 32, T1S, R8W;			
25	52. Thence Westerly to the Southwest corner of Section 31, T1S, R8W;			
26	53. Thence Northerly to the Southwest corner of			
27	Section 30, T1S, R8W;			
28				
	EXHIBIT "K"			

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1	54. Thence Northeasterly to the Southwest corner
2	of Section 20, T1S, R8W;
3	55. Thence Northerly to the Northwest corner of the Southwest quarter of the Southwest quarter of said Section 20;
4	56. Thence Northwesterly to the Northeast corner
5	of the Southeast quarter of the Southeast quarter of the Northwest quarter of Section 19, T1S, R8W;
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7	57. Thence Easterly to the Northwest corner of Section 21, T1S, R8W;
8	58. Thence Northeasterly to the Southeast corner
9	of the Southwest quarter of the Southwest quarter of Section 10, T1S, R8W;
10	59. Thence Northeasterly to the Southwest corner
11	of Section 2, T1S, R8W;
12	60. Thence Northeasterly to the Southeast corner of the Northwest quarter of the Northwest quarter of Section 1, T1S, R8W;
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14	61. Thence Northerly to the Northeast corner of the Northwest quarter of the Northeast quarter of Section 36, T1N, R8W;
15	62. Thence Northerly to the Southeast corner of
16	Section 24, T1N, R8W;
17	63. Thence Northeasterly to the Southeast corner of the Northwest quarter of the Northwest quarter of
18	Section 20, T1N, R7W; and
19	64. Thence Southerly to the Point of Beginning.
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28	EXHIBIT "K"
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1		Sections Included
2		
3	Townships, Ranges and S	scription includes all or portions of the following ections of San Bernardino Base and Meridian:
4	T1N, R5W - Sectio	ns: 30, 31 and 32
5 6	T1N, R6W - Sectio	ns: 8, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36
7	T1N, R7W - Sectio	ns: 19, 20, 24, 25, 26, 29, 30, 31, 32, 35 and 36
8	T1N, R8W - Sectio	ns: 25 and 36
9 10	T1S, R5W - Sectio	ns: 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 28, 29, 30, 31 and 32
11	T1S, R6W - Sectio	
12	T1S, R7W - Sectio	ns: 1 through 36, inclusive
13 14	T1S, R8W - Sectio	ns: 1, 2, 10, 11, 12, 13, 14, 15, 16, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36
15	T2S, R5W - Section	
16	T2S, R6W - Sectio	
17		23, 24, 26, 29, 30 and 31
18	T2S, R7W - Section	
19 20	T2S, R8W - Section	ns: 1, 2, 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 35 and 36
21	T3S, R7W - Section	ns: 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17 and 20
22	T3S, R8W - Section	1s: 1.
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28		EXHIBIT "K"
		- 88 -

1	NOSSAMAN CUTUNED KNOV & FULCE		
2	NOSSAMAN, GUTHNER, KNOX & ELLIOT FREDERIC A. FUDACZ, STATE BAR NO. 050546		
-	JOHN OSSIFF, STATE BAR NO. 120149 445 South Figueroa Street Thirty-First Floor		
4	Los Angeles, California 90071 Telephone: (213) 612-7800		
5	Facsimile: (213) 612-7801		
6	Attorneys for CHINO BASIN WATERMASTER		
7			
8	SUPERIOR COURT OF	THE STATE OF CALIFORNIA	
9		BERNARDINO - WEST DISTRICT	
10			
11	CHINO BASIN MUNICIPAL WATER) Case No.: RCV 51010	
12	DISTRICT,)	
13	Plaintiff,)) ORDER APPROVING	
14	٧.) AMENDMENTS TO JUDGMENT	
15	CITY OF CHINO,) DATE: November 17, 1995	
16	Defendant.) TIME: 2:00 p.m.) DEPT: WD-2	
17		 Specially assigned to the Honorable Judge 	
18) Honorable Judge) Ben T. Kayashima	
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1	On November 17, 1995, at 2:00 p.m., the petition and motion of the Chino
2	Basin Watermaster for an order approving amendments to the judgment to simplify
3	conversion claim procedures came on regularly for hearing, the Honorable Judge Ben
4	T. Kayashima presiding.
5	Frederic A. Fudacz and John Ossiff, of Nossaman, Guthner, Knox &
6	Elliot, appeared on behalf of Chino Basin Watermaster. No other appearances were
7	made.
8	No opposition having been received and good cause appearing therefore
9	IT IS HEREBY ORDERED:
10	1. That the petition and motion of Watermaster is granted.
11	2. Paragraph 10(b), "Conversion Claims" of Exhibit "H" of the
12	Judgment is hereby deleted and replaced with a new Paragraph 10(b), attached hereto
13	as Exhibit 1.
14	
15	Date:
16	Ben T. Kayashima
17	Judge, San Bernardino County Superior Court
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	-2-

EXHIBIT "1"

AMENDMENT TO JUDGMENT NEW PARAGRAPH 10(B) OF EXHIBIT "H"

(b) <u>Conversion Claims</u>. The following procedures may be utilized by any appropriator:

(1) <u>Record of Uncoverted</u> <u>Agricultural Acreage</u>.

Watermaster shall maintain on an ongoing basis a record, with appropriate related maps, of all agricultural acreage within the Chino Basin subject to being converted to appropriative water use pursuant to the provisions of this subparagraph. An initial identification of such acreage as of June 30, 1995 is attached hereto as Appendix 1.

Record of Water Service (2) Conversion. Any appropriator who undertakes to permanently provide water service to lands subject to conversion may report such intent to change water service to Watermaster. Watermaster should thereupon verify such change in water service and shall maintain a record and account for each appropriator of the total acreage involved. Should, at any time, converted acreage return to water service from the Overlying (Agricultural) Pool, Watermaster shall return such acreage to uncoverted status and correspondingly reduce or eliminate any allocation accorded to the appropriator involved.

(3) <u>Allocation of Safe Yield</u> <u>Rights</u>.

> (i) In any year in which sufficient unallocated Safe Yield from the Overlying (Agricultural) Pool is available for such conversion claims, Watermaster shall allocate to each appropriator with a conversion claim 1.3 acre

feet of unallocated Safe Yield water for each converted acre for which conversion has been approved and recorded by the Watermaster.

(ii) In any year in which the unallocated Safe Yield water from the Overlying (Agricultural) Pool is not sufficient to satisfy all outstanding conversion claims pursuant to subparagraph (i) herein above, Watermaster shall establish allocation percentages for each appropriator with conversion claims. The percentages shall be based upon the ratio of the total of such converted average approved and recorded for each appropriator's account in comparison to the total of converted acreage approved and recorded for all appropriators. Watermaster shall apply such allocation percentage for each appropriator to the total unallocated Safe Yield water available for conversion claims to derive the amount allocable to each appropriator.

(4) Notice and Allocation. Notice of the special allocation of Safe Yield water pursuant to conversion claims shall be given to each appropriator and shall be treated for purposes of this physical solution as an addition to such appropriator's share of the operating Safe Yield for the particular year only.

(5) <u>Administrative Costs</u>. Any costs of Watermaster attributable to the administration of such special allocations and conversion claims shall be assessed against the appropriators participating in such reporting, apportioned in accordance with the total amount of converted acreage held by each appropriator participating in the conversion program.

1	NOSSAMAN, GUTHNER, KNOX & ELLIOT	
2	FREDERIC A. FUDACZ, STATE BAR NO. 050 JOHN OSSIFF, STATE BAR NO. 120149	546
3	445 South Figueroa Street Thirty-First Floor	
4	Los Angeles, California 90071 Telephone: (213) 612-7800	
5	Facsimile: (213) 612-7801	
	Attorneys for	
6	CHINO BASIN WATERMASTER	
7		
8	SUPERIOR CO	URT OF THE STATE OF CALIFORNIA
9		OF SAN BERNARDINO - WEST DISTRICT
10		OF OAR DERIVARDING - WEST DISTRICT
11		
12	CHINO BASIN MUNICIPAL WATER DISTRICT,)Case No.: RCV 51010)
13	Plaintiff,) (Amended Proposed))
14	v.)) ORDER FOR AMENDMENTS TO
15	CITY OF CHINO,) THE JUDGMENT REGARDING) CHANGES IN POOLING PLANS
16) AND APPROPRIATIVE POOL
17	Defendant.) REPRESENTATION OF THE) ADVISORY COMMITTEE
)
18)) DATE: September 18, 1996
19) TIME: 10:00 a.m.) DEPT: H
20)
21) Specially assigned to the Honorable) Judge J. Michael Gunn
22		
23	On September 18, 1996, the	motion for amendments to the Judgment to
24		
25	change Appropriative Pool representation on th	e Advisory Committee came on
26	regularly for hearing in this matter, the Honorable J. Michael Gunn, Judge, Presiding.	
27		
28	The matter having been duly presented, all arguments having been heard	

and good cause appearing therefore,
IT IS HEREBY ORDERED:
1. That the petition and motion of Watermaster is granted.
2. That Paragraph 4, "Advisory Committee Representatives," of
Exhibit "H" to the Judgment is hereby deleted and replaced with a new Paragraph 4,
attached hereto as Exhibit 1.
3. That Paragraph 32, "Authorization," to the Judgment is hereby
deleted and replaced with a new Paragraph 32, attached hereto as Exhibit 1.
Date:
Judge, San Bernardino County Superior Court
-2-

AMENDMENT TO JUDGMENT

New Exhibit "H" Paragraph 4 to Judgment

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4. Advisory Committee Representatives. Members of the Pool Committee shall be designated to represent this pool on the Advisory Committee on the following basis: Each major appropriator, i.e. the owner of an adjudicated appropriative right in excess of 3,000 acre feet, or each appropriator that produces in excess of 3,000 acre feet based upon the prior year's production, shall be entitled to one representative. Two additional representatives of the Appropriative Pool on the Advisory Committee shall be elected at large by the remaining members of the pool. The voting power of the Appropriative Pool on the Advisory Committee shall be apportioned between the major appropriator representatives in proportion to their respective voting power in the Pool Committee. The two representatives of the remaining appropriators shall exercise equally the voting power proportional to the Pool Committee voting power of said remaining appropriators; provided, however, that if any representative fails to attend an Advisory Committee meeting, the voting power of that representative shall be allocated among the representatives of the Approporiative Pool in attendance in the same proportion as their own

respective voting powers.

New Paragraph 32 to the Judgment:

32. Authorization. Watermaster is authorized and directed to cause committees of producer representatives to be organized to act as Pool Committees for each of the several pools created under the Physical Solution. Said Pool Committees shall, in turn, jointly form an Advisory Committee to assist Watermaster in performance of its functions under this judgment. Pool Committees shall be composed as specified in the respective pooling plans, and the Advisory Committee shall be composed of voting representatives from each pool, as designated by the repective Pool Committee in accordance with each pool's pooling plan. WMWD, Three Valleys Municipal Water District (Successor to PVMWD) and SBVMWD shall each be entitled to one non-voting representative on said Advisory Committee.

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SCOTT SLATER (State Bar No. 117317)

MICHAEL FIFE (State Bar No. 203025)

HATCH AND PARENT

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Santa Barbara, CA 93101-2782

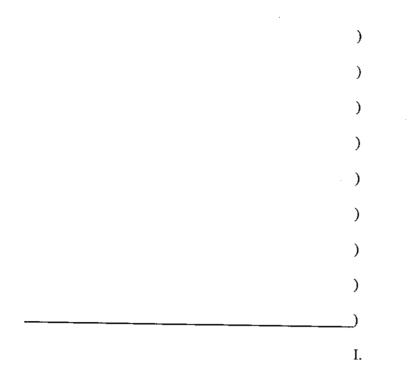
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SUPERIOR COURT OF THE STATE OF CALIFORNIA

AQUALTY TO CAAN BEENARDINGer

) CASE NO. RCV 51010
CHINO BASIN MUNICIPAL)
WATER DISTRICT,) Judge: Honorable J. MICHAEL GUNN
Plaintiff,)
VS.)
CITY OF CHINO, et al.,) MOTION TO AMEND JUDGMENT
Defendants.)
)
)
) Date: September 28, 2000
) Time: 2:00 pm.
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)
)
))



BACKGROUND

In 1978, judgment was entered in *Chino Basin Municipal Water District v. City of Chino*, a groundwater adjudication of the Chino Basin. This Judgment imposed a physical solution in order to halt the decline of the groundwater levels in the Basin. The Judgment also required the parties to develop an Optimum Basin Management Program ("OBMP") in order to provide a comprehensive program that would offer a long-term solution to the many issues facing the Basin. On June 29, 2000 a final OBMP for the Chino basin was submitted to the Court, and on

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July 13, 2000 the Court approved the OBMP and ordered Watermaster to proceed in accordance with its terms.

In the final months prior to completion of the OBMP, the parties negotiated a Peace Agreement that resolved the issues inhibiting finalization of the OBMP. During these negotiations it was recognized that certain minor but necessary amendments would need to be made to the Judgment so that the final OBMP would be fully consistent with the Judgment. The negotiating parties consented to these modifications and they became a part of the Peace Agreement (Article IV, section 4).

In its July 13, Order approving the OBMP, the Court ordered that a hearing would be held on September 28, 2000 to, in part, hear arguments on proposed amendments to the Judgment. Part II of this brief describes Watermaster's recommended amendments to the Judgment in conformance with the Peace Agreement.

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Proposed Amendments to the Judgment

Watermaster recommends the following amendments to the Judgment:

(a) The Judgment shall be amended so that the last sentence of Paragraph 8 of the Judgment reads:

All overlying rights are appurtenant to the land and cannot be assigned or conveyed separate of apart therefrom for the term of the Peace Agreement except that the members of the Overlying (Non-Agricultural) Pool shall have the right to Transfer or lease their quantified production rights within the Overlying (Non-Agricultural) Pool or to Watermaster in conformance with the procedures described in the Peace Agreement between the Parties therein, dated June 29, 2000.

(b) Paragraph 6 of Exhibit "G" to the Judgment regarding the Overlying Non-Agricultural Pool shall be amended to read:

Assignment. Rights herein decreed are appurtenant to that land and are

Only assignable with the land for overlying use thereon; provided, however, (a) that any appropriator who may, directly or indirectly, undertake to provide water service to such overlying lands may, by an appropriate agency agreement on a form approved by Watermaster, exercise said overlying right to the extent, but only to the extent necessary to provide water service to said overlying lands, and (b) the members of the pool shall have the right to Transfer or lease their quantified production rights within the pool or to Watermaster in conformance with the procedures described in the Peace Agreement between the Parties therein, dated June 29, 2000 for the term of the Peace Agreement.

(c) The 1995 Amendment to the Judgment shall be amended as follows: Section 10(b)(3)(i) shall now read:

"For the term of the Peace Agreement, in any year in which sufficient unallocated Safe Yield from the Overlying (Agricultural) Pool is available for such conversions claims, Watermaster shall allocate to each appropriator with a conversion claim, 2.0 acre-feet of unallocated Safe Yield water for each converted acre for which conversion has been approved and recorded by the Watermaster."

Appendix 1 to the Judgment shall be construed to be consistent with this amendment. All other parts of the 1995 Amendment shall remain the same.

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Conclusion

The Peace Agreement is a carefully constructed balance of the various interests in the Basin that has enabled the OBMP to be finalized. One part of the negotiation of the Peace Agreement was an agreement on the necessary amendments to the Judgment in order to make the Peace Agreement and the Judgment fully consistent with one another. The signatories have agreed that the amendments described above are the only *necessary* amendments in order to

achieve consistency.

Neither the signatories to the Peace Agreement nor Watermaster believe any other proposed amendments are necessary at this time and accordingly urge this Court to make only those changes necessary so that the final OBMP is consistent with the Judgment. The Judgment has created a stable institutional framework in the Chino Basin that has made the development of the OBMP possible. Changes to this framework should be made only where absolutely necessary so as to cause minimal disruption to this stability. Watermaster has determined that the amendments proposed above are the only necessary changes that need to be made consistent with the Peace Agreement.

The parties have made a monumental effort to craft a solution that will fulfill the overriding goal of managing the Chino Basin on a sustainable basis for the benefit of all. Watermaster respectfully request that the Court approve the above referenced amendments in furtherance of the physical solution.

Dated: August _, 2000.

HATCH & PARENT

By:

Scott S. Slater

Michael Fife

Attorneys for Chino Basin Watermaster

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SUPERIOR COURT FOR THE STATE OF CALIFORNIA

FOR THE COUNTY OF SAN BERNARDINO

) CASE NO. RCV 51010
CHINO BASIN MUNICIPAL WATER)
DISTRICT,) ORDER CONCERNING
Plaintiff,) MOTION TO AMEND JUDGMENT
VS.)
CITY OF CHINO, et al.,)
Defendants.) Date: September 28, 2000
) Dept: 8
) Time: 2:00 p.m.
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Background

On February 19, 1998, the Court directed Watermaster to prepare an optimum basin management program ("OBMP") for the Chino Basin. On July 13, 2000, the Court found, subject to certain conditions precedent, that Watermaster's support and approval of the Peace Agreement regarding the Chino Groundwater Basin, dated June 29, 2000, hereinafter "Peace Agreement," and Watermaster's commitment to implement the OBMP Phase I Report through the provisions of the OBMP Implementation Plan as expressly set forth in Article

V of the Peace Agreement satisfied Watermaster's obligation to prepare an OBMP. One of the conditions precedent to that finding is Court approval of all Judgment modifications in furtherance of the OBMP.

On August 15, 2000, Watermaster filed a Motion to Amend the Judgment. No other party has submitted proposed Judgment modifications in furtherance of the OBMP, nor has opposition been filed to Watermaster's motion. Watermaster asserts that the parties to the Peace Agreement have agreed that the proposed amendments are the only Judgment modifications necessary to achieve consistency between the OBMP and the Judgment. Consequently, the parties have not provided comprehensive briefing on Judgment modification issues.

Discussion

Special Referee Anne Schneider has provided the Court (and the parties) with a thoughtful

analysis of various provisions in the Peace Agreement that appear to be in conflict with the Judgment. Watermaster's motion recognizes some of these conflicts. However, the Special Referee's Report and Recommendation Regarding Watermaster's Motion to Amend Judgment notes several provisions in the Peace Agreement which appear to conflict with the Judgment, for which no modification is proposed. For example, Watermaster proposes to modify the amended Judgment Exhibit H conversion provisions to allow 2.0 acre-feet of unallocated Safe Yield water for each converted acre. However, no revision is proposed with respect to Appendix 1, which explains the basis for the existing 1.3 acre-feet per acre provision. Another example is the Peace Agreement provision which permits "Early Transfer" allocations of 32,800 acre-feet of water to occur annually, yet the Overlying (Agricultural) Pool is still entitled to pump 82,800 acre-feet per year without reduction. There are several other provisions of the Peace Agreement noted by the Special Referee which appear to conflict with the Judgment amendment is sought.

<u>Order</u>

The Court has considered the Special Referee's Report and Recommendation Regarding Motion to Amend Judgment and hereby issues its ruling accepting the Report and adopting the Recommendation of Anne Schneider.

The Court incorporates herein by reference the entirety of the Special Referee's Report and Recommendation Regarding Motion to Amend Judgment. Watermaster's Motion to Amend the Judgment is granted subject to the following: the parties are directed to file a post-hearing brief (s) clarifying their intent with respect to the Peace Agreement provisions discussed in Sections IIB through IIF in the Special Referee's Report and Recommendation Regarding Watermaster's Motion to Amend Judgment. The post-hearing brief(s) shall be submitted no later than October 26, 2000.

Dated: September 28, 2000.

s/s J. Michael Gunn

J. MICHAEL GUNN, Judge

SUPERIOR COURT FOR THE STATE OF CALIFORNIA

FOR THE COUNTY OF SAN BERNARDINO

) CASE NO. RCV 51010		
CHINO BASIN MUNICIPAL WATER)		
DISTRICT,) ORDER CONCERNING		
Plaintiff,) MOTION TO EXTEND NINE-MEMBER		
VS.) BOARD		
CITY OF CHINO, et al.,)		
) Date: September 28, 2000		
Defendants.) Dept: 8		
) Time: 2:00 p.m.		
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Background

On February 19, 1998, the Court appointed a nine-member board consisting of representatives from the Overlying (Agricultural) Pool, the Overlying (Non-agricultural) Pool, the Appropriative Pool, and three municipal water districts to serve as Interim Watermaster for the Chino Groundwater Basin (hereinafter sometimes referred to as "Basin"). Watermaster was directed to notice a hearing on or before October 28, 1999, to consider all parties' input as to the continuance of the nine-member board. The Court informed the parties that one of the measures that would be used in determining the effectiveness of the nine-member board, in functioning as a steward of the Basin,

would be the progress made on the adoption of an optimum basin management program ("OBMP") for the Basin. The OBMP was to be submitted to the Court no later than September 30, 1999, and a hearing was set on October 28, 1999, to consider whether to approve and order full implementation of the program. The deadline for approval of the OBMP was continued several times. The Court finally approved the OBMP, consisting of the Phase I Report and Implementation Plan, subject to certain conditions precedent, on July 13, 2000.

Discussion

Extension of Appointment of Nine-member Board

On August 30, 2000, Watermaster filed a Motion to Extend the Nine-Member Board for a Full Five-Year Term. The motion requests the Court to order that the current nine-member structure of the Watermaster board continue in effect for a full five-year term. Watermaster asserts that all of the conditions precedent set forth in the Court's July 13, 2000, Order have been satisfied. However, as noted in Special Referee Anne Schneider's Report and Recommendation Concerning Motion to Extend Nine-Member Board, there are several outstanding issues that must be resolved before it can be said that all of the conditions have been satisfied. First, it is not clear that unanimous approval of the Peace Agreement regarding the Chino Groundwater Basin, dated June 29, 2000, hereinafter "Peace Agreement," has been obtained. Western Municipal Water District's "ratification" of the Peace Agreement was conditional. Watermaster reports the need for further negotiations related to the purchase of desalted water. Second, Watermaster states that the California Legislature has appropriated \$235,000,000 for the benefit of the Santa Ana Watershed Project Authority ("SAWPA") and allocated this sum to the state Water Resources Control Board ("SWRCB") for distribution. Watermaster further states that SAWPA has submitted an application to SWRCB for distribution of these funds, including \$56,000,000 to be used to fund the Chino II desalter and an expansion of the Chino I desalter. However, Watermaster has not explained how the \$121,000,000 condition precedent is satisfied when only \$56,000,000 of the funds allocated to SAWPA are to be used for the Chino Basin desalter project. Third, while Watermaster has submitted a schedule and process for submission to the Court of detailed periodic reports regarding compliance with the Implementation Plan for the OBMP, the schedule has

some omissions. For example, Program Elements 3 and 5, which encompass the desalter project, are not included in the schedule.

It must be noted that the City of Chino has filed an Opposition to Motion to Extend the Nine-Member Board for a Full Five-Year Term. Although it supports the continuation of the current ninemember board structure, the City of Chino asserts that Court guidance is needed with respect to the establishment of "criteria, procedures and schedules for the rotation of Appropriative Pool members" serving on the nine-member board. Watermaster responds that several groups must determine a procedure for rotation: Overlying (Agricultural) Pool, Overlying (Non-agricultural) Pool, and the three municipal districts that hold seats on the board and the Appropriative Pool. Watermaster is hopeful that a complete consensus will emerge prior to October 31, 2000, and requests the Court to allow the consensus-building process to continue and give the parties until October 31, 2000, to resolve their differences. An inability to reach consensus on the rotation issue is of considerable concern to the Court. The Court is unwilling to extend the appointment of the board unless and until the rotation Issue is resolved.

Periodic Reporting Requirements

In the exercise of its continuing jurisdiction, the Court shall require periodic progress reports regarding implementation of the OBMP to ensure that the Watermaster is performing its independent function and keeping to the schedule

adopted for OBMP implementation. The Court adopts the following schedule for

OBMP reporting:

Report No. 1 March 31, 2001

Report No. 2 September 30, 2001

Report No. 3 March 31, 2002

Report No. 4	September 30, 2002
Report No. 5	March 31, 2003
Report No. 6	September 30, 2003
Report No. 7	March 31, 2004
Report No. 8	September 30, 2004
Report No. 9	March 31, 2005
Report No. 10	September 30, 2005

Report No. 10 coincides with the end of the appointment of the Nine-Member Board. The OBMP progress reports, together with independent assessment of OBMP implementation status, including verification of data to be provided by the Special Referee and her technical expert, will be the basis for consideration of continuing the appointment. The Court may schedule hearings to coincide with some or all of these reports. Alternatively, the Court may, from time to time, direct the Special Referee to conduct a workshop in lieu of a court hearing. The reports should follow the format prescribed in Special Referee Anne Schneider's Report and Recommendation Concerning Motion to Extend Nine Member Board.

Future Desalters

The Court wants to particularly note that the Peace Agreement predicates any future desalting capacity on a reevaluation of the need for additional desalting after the earlier of ten years or the conversion of 20,000 acres of agricultural land. The Court is mindful that while the parties to the Peace Agreement contemplate the construction of future desalters and/or expansion of Chino I and/or Chino II

Desalters, there are no provisions in the Peace Agreement that effectively ensure that they will be built. In effect, future desalters (and any expansions of the Chino I and II Desalters) will be built "if and only If' funding from sources other than the Parties can be secured. The OBMP (Phase I Report and Phase II Implementation Plan) calls for some 40,000 acre-feet per year of desalting capacity to be installed in the southern part of the Basin by 2020. The Court hereby gives notice to the parties that a primary concern of the Court in any future application for reappointment of the nine-member board will be the parties' continued commitment to provide for future desalters and preserve safe yield in accordance with the OBMP.

<u>Order</u>

Watermaster seeks an order continuing the current nine-member structure of the Watermaster Board in effect for a full five-year term and authorizing it to perform all managerial and administrative functions as specified in the Judgment, including the execution of all administrative and employment contracts. Watermaster states that it will propose a schedule for rotation of its board members no later than October 31, 2000.

The Court is not inclined to extend unconditionally the reappointment of the nine-member board until both the rotation and the Western Municipal Water District issues have been resolved. Therefore, the appointment shall be made subject to certain conditions. The failure of any one of these conditions shall be considered by the Court as a compelling reason to reconsider the appointment of the nine member board. Therefore, subject to the continuing jurisdiction of the Court and satisfaction of conditions numbers 1 - 5 below, the Court hereby issues its order: The Court has considered the Special Referee's Report and Recommendation Concerning Motion to Extend Nine-Member Board and hereby issues its ruling accepting the Report and adopting the Recommendation of Anne Schneider, except to the extent that it recommends continuation of the appointment for only three years. The Court incorporates herein by reference the entirety of the Special Referee's Report and Recommendation Concerning the Motion to Extend Nine-Member Board. The nine-member board is hereby appointed for an additional five-year term, until September 30, 2005, subject to the continuing jurisdiction of the Court to reconsider the appointment in the event Watermaster fails to timely comply with the following conditions:

1. Watermaster's report on the status of its efforts to resolve the terms and conditions applicable to the purchase of desalted water and to secure a recission of Western Municipal Water District's conditional execution of the Peace Agreement no later than December 31, 2000; and

2. Watermaster adoption and Court approval of Revised Rules and Regulations for Chino Basin by February 1, 2001; and

3. Submission of Reports Nos. 1 through 10 in accordance with the schedule set forth in the discussion above; and

4. Inclusion in such reports of schedule and budget information essentially in a form equivalent to Exhibit "E" and Table 4-14 of the Phase I Report; and

5. Watermaster cooperation in the independent assessment and verification of the data

included in Reports No. 1 through 10 to be provided to the Court by the Special Referee and her technical expert.

The parties are forewarned that any future application for reappointment of the nine-member board may be conditioned on the development of a detailed plan to reach the OBMP goal of 40,000 acre-feet per year of desalting capacity to be installed in southern part of the Basin by 2020.

Dated: September 28, 2000.

s/s_J. Michael Gunn

J. MICHAEL GUNN, Judge

SCOTT SLATER (State Bar No. 117317)

MICHAEL FIFE (State Bar No. 203025)

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SUPERIOR COURT OF THE STATE OF CALIFORNIA

AQUATY fOR AN BERNARDINGer

) CASE NO. RCV 51010
CHINO BASIN MUNICIPAL)
WATER DISTRICT,)
Plaintiff,)
vs.)
CITY OF CHINO, et al.,) NOTICE OF ENTRY OF ORDER
Defendants.) CONCERNING MOTION TO
) EXTEND NINE-MEMBER BOARD
) AND ORDER CONCERNING
) MOTION TO AMEND JUDGMENT
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TO ALL PARTIES AND THEIR ATTORNEYS OF RECORD;

Please take notice that on September 28, 2000, the Court entered its Order Concerning Motion to Extend Nine-Member Board and Order Concerning Motion to Amend Judgment. A true and correct copy of these Orders are attached hereto and made a part hereof by this reference.

The Court also provided guidance on the factors that it will consider when deciding to reappoint the Nine-Member Watermaster Board in 2005. These factors are:

(1) All production meters will be installed;

(2) Basin Monitoring will be completely in place and will have been the basis for semi-annual reports specified in the Order;

(3) The Recharge Master Plan will be complete and appropriate recharge facilities will have been installed;

(4) The OBMP Desalter I Expansion and Desalter II will be installed and operational, with demonstrated delivery of desalter water for municipal use in the Basin.

In addition, the Court wishes to schedule a hearing on February 1, 2001 at 2:00 pm. The purpose of the hearing will be to:

(1) Approve the Revised Rules and Regulations for the Chino Basin;

(2) Approve the post-Order memorandum which will be filed on October 26, 2000;

(3) Receive a report on the status Western Municipal Water District's recission of its conditional execution of the Peace Agreement; and

(4) Receive Watermaster's Annual Report.

The Revised Rules and Regulations for the Chino Basin should be submitted to the Court by December 31, 2000.

Dated: September 28, 2000

HATCH & PARENT

By: <u>s/s Michael</u> Fife

Michael Fife

Attorneys for Chino Basin Watermaster

APPENDIX 1

To Chino Basin Watermaster Amendment Regarding Land Use Conversions

The purpose of the amendment is to simplify the methodology and procedure for land use conversions under the 1978 Judgment. The basic nature of the commitment undertaken by the parties who negotiated the Judgment is not intended to be changed. The methodology used to develop the recommended 2.0^{-1} per acre (af/ac) conversion factor can best be described as a gross water duty method. Essentially, the total water use was divided by the total acreage remaining to be converted to develop the gross average water use per acre.

At the Land Use Conversion Workshop held on January 10, 1995, there was a consensus among the parties to the Judgment that the large agricultural acreage within the purveyor service areas must still be converted. To depict the large southern area remaining to be converted, Watermaster staff proposed the establishment of Conversion Area No. 1 (see attached map). This area can generally be described as the area that is south of the 60 Freeway, outside the current city boundaries of Chino, Chino Hills and Ontario and for the most part, the portion of Jurupa Community Services District (JCSD) that is west of Etiwanda. The southernmost boundary of the area is taken as the Army Corps of Engineers' Prado Basin take line, unless a specific agricultural well exists inside the take line. To obtain the acreage for Conversion Area No. 1, the Santa Ana Watershed Project Authority (SAWPA), used its Geographic Information System (GIS) and determined the total acreage shown in Conversion Area No. 1 to be approximately 27,133 acres.

Also at the January 10 Land Use Conversion Workshop, the appropriators were asked to submit the proposed remaining convertible acreage inside their established service areas. Submissions of the parcels proposed as eligible for conversion, both inside and outside Conversion area No. 1 began arriving in early March 1995, and were received as late as June 29, 1995. Watermaster staff worked with each appropriator to identify the proposed acreage by assessor's parcel number. The lists of parcels and the approximate acreage of each parcel, by appropriator, are included with Appendix 1 as Tables 2A - 2G for reference. The maps corresponding to these lists are on file with the Watermaster. The eligibility of most of the parcels submitted has been determined; however, the specific eligibility of some parcels is still in question. The eligibility criteria utilized by staff requires that the land:

- 1. has not been receiving water provided by an appropriator;
- 2. was not already included in the establishment of the appropriator's production rights; and
- 3. has been used for irrigated agriculture within the last five years if it is located outside Conversion Area No. 1

¹ Amended from 1.3 af/ac by Order dated September 28, 2000.

The appropriators were also asked which parcels they were proposing to convert for the production year 1994/95. The parcels proposed for conversion in FY 94/95 are included with Appendix 1 as Tables 3A - 3C. Any parcels converted for production year 1994/95 will affect the assessments and available unallocated safe yield from that production year in fiscal year 1995/96. Table 1 is a summary of the total acreage submitted by each appropriator as being eligible for conversion and of the acreage requested by that appropriator for conversion in FY 94/95, if any. Staff has evaluated the parcels requested for conversion in FY 94/95 and finds that all of those requested, or a total of 2, 185 acres, are eligible for conversion based on the above criteria.

When the 27,133 acres in Conversion Area No. 1 is added to the 5,209 acres (Table 1) proposed for conversion that is outside Conversion Area No. 1, there is a total of 32,343 acres remaining to be converted in the Chino Basin.

The 1978 agricultural water use was 84,095 acre-feet. When this is divided by the 32,343 acres, it results in a use of 2.6 af/ac. The value is still approximately 2.6 af/ac if the average annual post-judgment allocation of 82,800 af is divided and all acres were able to be converted as currently prescribed in the judgment, 50% of this per acre use would be allocated to an appropriator, and the appropriator would receive 1.3 acre-feet per acre. This would be a maximum use per acre. In 1994, the agricultural water use was reported as 44,092 acre-feet per acre. If this use is divided by the 32, 343 acres, it results in a present average use of 1.36 acre-feet per acre.

There was a consensus at the workshops and at the pool committee meetings that many of the conversions that potentially could have taken place since 1978, were not submitted by the appropriators. This is probably because of a lack of the right type of information to make the appropriate use-per-parcel determinations and because of the time and money that would be required if they were pursued extensively. Because of this, there was a consensus that the 1.3 af/ac conversion water use determinations were based only on 50% of the current average use.

Watermaster staff anticipates that each appropriator with remaining convertible acreage will request conversion on that acreage each year that they undertake to serve the land. If the service is anticipated to be permanent, they can request permanent conversion. For the acreage outside Conversion Area No. 1, the above criteria will be applied annually to make an eligibility determination. Also, an appropriator will be required to certify that the land is not currently using water that is being reported as agricultural pool production and Watermaster staff will field verify that agricultural activities have ceased, or that the appropriator is actually satisfying the agricultural use.

Chino Basin Watermaster Unconverted Acreage

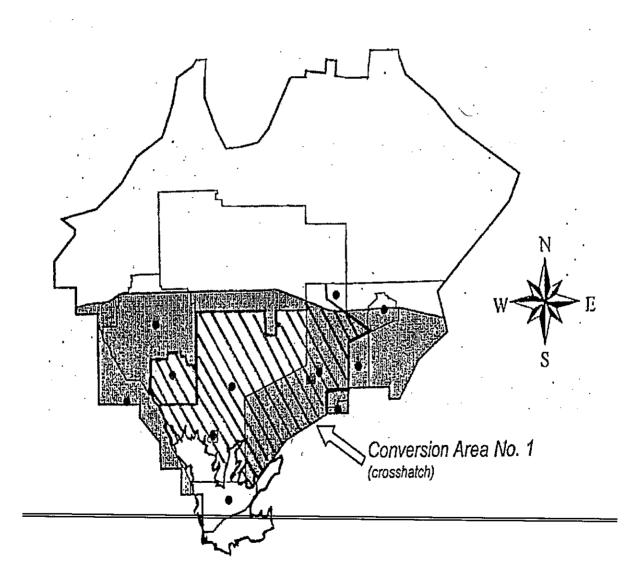


TABLE 1					
		Chino Basin Wa roposed Conve Revised Augus	rsion Acres		
Appropriator	Outside Conversion Ins Area #1		Inside Conversion Area #1	Total FY 94/95 Acres Proposed	
	Total Acres Submitted	Acres Proposed FY 94/95	Acres Proposed FY 94/95		
Chino, City of	1923	519	0	519	
Chino Hills, City of	1053	0	0	(
Cucamonga CWD	460	0	0	C	
Fontana WC	417	0	0	(
Jurupa CSD	835	327	758	108	
Monte Vista WD	43	0	0	(
Ontario, City of	544	544	37	581	
Total	5209	1390	795	2185	

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Chino AGRICULTURAL LAND - WATER SUPPLY STUDY OUTSIDE CONVERSION AREA NO. 1 LIST B

Property No.	Acreage	ADDRESS N/S - E/W	APN	GENERAL NOTES
<u>1</u> 2	11 16	4800/12150 4700/12200	1016-121-4,5,6,7,8 1016-131-1,2,3	ROSES RESIDENCE ON CITY WATER ROSES CROP ACREAGE SUPPLIED BY PVT.WELL ON
3	10	5350/11750	1014-381-1,2,3,4	No.2
4	21	5600/12400	1015-261-2,3	BERRY TRUCK FARMING MISCELLANEOUS VEGETABLES
	<u> </u>		1015-253-9	TROCK PARMING MISCELLANEOUS VEGETABLES
5	6	5400/12450	1015-281-21	BERRY
6	7	4000/13000	1019-071-20,21	CHRISTMAS TREE GROWER
	-		1019-081-2,11	
7	38	4800/13250	1019-191-1,2,5	RANCHING DOMESTIC SERVICE ONLY - OTHER USES
8	10	3600/13650	1019-201-1,3 1019-611-28,39,40	RANCHING DOMESTIC SERVIE ONLY UNDER DEVELOPMENT
			1019-611-41,42,43,49	
9	21	3700/13750	1022-041-4	LANDSCAPE NURSERY
			1022-05-3,4	
10	31	3900/14000	1022-031-2	GREEN FEED
<u> </u>	 − ·−−-		1022-26-4 1022-27-4	
			1022-082-1,2,8,9,10	
11	58	4000/14200	1022-38-3	GREEN FEED
			1022-39-4	
			1022-40-3	
40			1022-58-2	
12	54	4150/13900	1022-10-5,6,7,8	DAIRY
13	142	4300/14300	1022-24-3	
10		4300/14300	1022-42-0,7,8	GREEN FEED
			1022-58-2	
			1022-53-11,12,13	
			1022-431-8	
	·		1022-441-8	
14	- 40 -	4000/44550	1022-541-3	
14	18	4200/14550	1022-55-3	GREEN FEED
15	51	4350/14700	1025-10-5,7,8,9 1025-09-1	
		1000/14/00	1025-12-1,2,5,6,7	GREEN FEED
			1025-21-8,9,12 thru 23	
<u>1</u> 6	40	4800/14400	1022-50-1,2,3	DAIRY DOMESTIC SERVICE ONLY
47		1000111000	1022-49-1,3,4	
17	320	4900/14700	1025-13-1 lhru 6	DAIRY & FARMING GREEN FEED
	·······		1025-20-5,6 1025-19-6,7	
			1025-15-1 thru 8	
			1021-471-3,4,6,8	
	_		1021-461-2,3,4,6,7,8	
			1021-481-1,2,3	
			1024-491-1,2 1021-511-1,2,3	
			<u>1021-511-1,2,3</u> 1021-501-1,2	
			1021-521-1,2,3,4	
			1021-531-1,2	
18	70	5300/15400	1028-201-13,17	DOMESTIC SERVICE ONLY
			1028-511-1 thru 20	
			1028-501-1 thru 25	
19	10	6200/12800	1028-491-1 thru 9 1015-511-27	
20	29	6200/13000	1015-511-27	BERRY
			1020-121-21,24	
21	18	6000/14050	1021-291-1,2	GREEN FEED
22	38	6200/14000	1021-261-1,2,3,4	RANCHING DOMESTIC SERVICE ONLY
			1021-231-2	
22		0400110000	1021-101-2,3,4	
23	26	6400/13900	1021-251-1,20	DAIRY
24	17	6850/12850	1021-241-2,3	
<u>~ 1</u>	17	0000/12000	1051-502-31 1051-631-2	CORN/BERRY

Table 2A Page 2 of 2

Chino
AGRICULTURAL LAND - WATER SUPPLY STUDY
OUTSIDE CONVERSION AREA NO. 1 - LIST B

Property No.	Acreage	ADDRESS N/S - E/W	APN	GENERAL NOTES
25	11	6800/13200	1052-301-1,3,4	DAIRY
26	64	6600/13500	1052-331-1,2,3	DAIRY
			1052-341-1,2,3,4	
			1052-631-1,2,3	
27	28	6000/42500		
	20	6800/13500	1052-611-1,2	GREEN FEED
			1052-601-2	
28	15	6800/13900	1053-261-3,4,41,71	GREEN FEED
			1053-231-4,31	
29	39.5	6600/13900	1053-251-1,2,3,4	NURSERY
			1053-241-68	
			1053-011-2 thru 5	
30	99	5700/14150	1021-351-1.2	AYALA PARK
			1021-321-1,2	
	·		1021-311-1,2	
			1021-281-1	
			1026-011-1	
31	- 80	6800/14300	1053-621-1.2	
	00	0000/14300		DAIRY
			1053-491-1 thru 11.13.14.17	
			1053-461-1,2,3	
			1053-451-1,2	
32	61	6950/13100	1052-051-1 thru 18	DOMESTIC SERVICE ONLY
			1052-051-20 thru 25	
33	61	6950/13500	1052-361-1,2,3,4	DAIRY
			1052-371-1,2,3	
			1052-591-1,2	
	· · ·		1052-581-1,2	
34	61	6950/13900	1053-051-3.4	DAIRY
	<u></u>	0000/10000	1053-061-3,4	DAIRT
			1053-221-1.2	
35	61	005014 4000	1053-271-1 thru 8	
30	01	6950/14300	1053-441-1 thru 9,12,13	DAIRY
			1053-431-1,2	
			1053-501-1,2,3,4	
			1053-611-1,2,3	
36	10	5250/11550	1014-301-3,4,5	NURSERY & CHRISTMAS TREES
37	20	5350/11600	1014-271-1	NURSERY & CHRISTMAS TREES
			1014-281-4	
40	32	4400/13000	1019-111-27 thru 73	RECENTLY CONVERTED BERRY FARMING TO RESIDENTIAL
			1019-122-1 thru 48	
			1019-123-1 thru 54	
41	30	4600/13500	1019-441-3,4	RANCHING
	— * —		1019-511-6.7	
	·		1019-501-1	
42	10	5250/14150		
43	18	5350/13600	1021-361-21,22	NURSERY
40	10	000013000	1020-571-3,4,6	BERRY
			1020-461-1,2,3	
44	80	5600/13900	1021-041-1 thru 4,6,9	DAIRY DOMESTIC SERVICE ONLY - OTHER USES WELL
			1021-131-1,2	
			1021-201-1,2	
			1021-331-1	
	1		1021-301-1	
45	10	5950/13750	1021-061-1,2	DAIRY
46	5	6450-13350	1021-381-5	BERRY
TOTAL	1857.5		<u> </u>	

THE CITY OF CHINO HILLS PROPOSED PARCELS FOR LAND USE CONVERSION

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THE CITY OF CHINO HILLS PUBLIC WORKS DEPARTMENT GEOGRAPHIC INFORMATION SYSTEM 101 GRAND AVENUE CHINO HILLS CA 91711 (909)

ID	APN	OWNER	ACREAGE
1	1022-291-09	Boys Republic	4.63
2	1022-291-10	Boys Republic	44.49
3	1022-291-05	Boys Republic	2.32
4	1022-591-02	Boys Republic	28.46
5	1022-291-08	Boys Republic	118.04
6	1025-461-01	De Groot	8.92
7	1025-461-02	De Groot	2.01
8	1025-461-03	De Groot	7.12
9	1025-481-02	De Groot	8.23
10	1025-471-04	De Groot	4.12
11	1025-471-03	De Groot	1.72
12	1025-481-01	De Groot	9.62
13	1025-511-01	De Groot	6.66
14	1025-471-01	City of Chino Hills	6.38
15	1025-471-02	Greening	1.00
16	1025-561-04	Greening	47.24
17	1028-471-01	Greening	66.82
18	1028-351-01	Kramer	1.54
20	1028-351-13	Higgins	4.04
21	1028-351-23	Higgins	38.24
22	1028-351-11	Higgins	7.64
23	1028-201-03	Von Lusk	1.91
24	1028-201-02	Von Lusk	77.57
25	1028-201-74	Von Lusk	54.77
26	1028-201-75	Von Lusk	37.57
. 27	1028-351-07	Bahan	28.27
28	1017-231-21	Amato	1.79
29	1017-231-22	Trapani	5.65
30	1017-241-14	Richland Pinehurst LP	82.37
31	1017-491-01	Richland Pinehurst LP	78.63
32	1027-492-01	Richland Pinehurst LP	43.31
33	1027-121-07	Richland Pinehurst LP	15.94
34	1057-261-06	Abacherli	128.26
35	1057-261-05	Abercherli	10.00
36	1021-561-01	Van Klavern	13.62
	1021-591-01	Van Klavern	9.50
	1021-591-03	Van Klavern	11.60
	1021-601-04	Van Klavern	8.28
	1021-601-01	Van Klavern	9.16
37	1028-351-16	Higgins	2.60
38	1028-351-14	Higgins	11.21
39	1028-351-18	Weeda	12.16
		TOTAL:	1053.40

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CONVERSION

<u>CUCAMONGA COUNTY WATER DISTRICT</u> West gate specific plan property west of Cherry

APN		Acreage	
226-112-08		7.07	
228-012-05		108.62	
06		7.54	
00 (adjacent t	o Cherry)	110.00	(estimated)
228-092-03		37.36	
14		9.61	
15		9.61	
16		9.61	
17		7.57	
20		11.54	
19		9.73	
22		25.40	
228-091-12		18.68	
24		5.43	
25		9.00	
28		35.51	,
07		38.00	(estimated)
	Totals	460.28	

APN maps attached

JT:dc(CCWDCOVS.DOC) 6/26/95

CONVERSION

FONTANA WATER COMPANY West gate specific plan property east of Cherry

APN		Acreage	
228-021-28		142.35	
27		8.50	
226-121-21		12,50	
18		137.83	
226-091-46		45.78	
62		70.04	
	Total	417.00	

JT:dc(FWCCONVR.DOC) 6/26/95

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Jurupa Community Services District LAND CONVERSION REQUESTS FY 94-95 OUTSIDE OF CONVERSION AREA NO. 1

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PARCEL		PARCEL	NUMBER	MAP	LOT
NUMBER		ADDRESS	OF ACRES	NO	NO
156020026	12400	PHILADELPHIA	10.25	A	1
156020027	12350	PHILADELPHIA	15.41	A	2
156020030			8.79	A	3
156160018	3791	DE FOREST	10.75	в	1
156160035	3065	DULLES	5.21	в	2
156160036	3058	DULLES	9.42	в	3
156160037			7.31	в	4
156160038			5.03	в	5
156160039	3178	DULLES	5.11	в	6
156160046	3431	DE FOREST	5.10	в	7
156160058			2.45	B	8
156160059			1.60	в	9
156160060			0.19	в	10
156160061			0.22	в	11
156160065	3450	DULLES	5.50	в	12
156160066	3204	DE FOREST	5.20	в	13
156160067			5.37	в	14
156160068			5.00	в	15
156160069	3384	DE FOREST	5.00	B	16
156160070			5.21	B	17
156160071	3725	NOBEL	7.88	в	18
156160072			3.55	в	19
156160073	3444	DE FOREST	1.20	в	20
156160074	3590	DE FOREST	10.66	в	21
156160080			5.16	B	22
156160081			6.25	в	23
156160082	10885	INLAND	11.43	в	24
156160084	10980	INLAND	2.51	в	25
156160087	3305	DULLES	20.47	в	26
156160088	3305	DULLES	44.37	в	27
156160089	3305	DULLES	8.40	в	28
156160095	3038	DEERE	12.94	в	29
156160096	3371	DE FOREST	25.03	в	30
156160097			23.97	B	31
183030007	7545	JURUPA	9.90	č	3
183030008	7585	JURUPA	1.99	c	2
183030033	7491	JURÚPA	5.69	c	1
183080010	7371	JURUPA	7.55	D	1
		TOTAL ACRES	327.07	-	-

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Jurupa Community Services District LAND CONVERSION REQUESTS FY 95-96 AFTER WATERMASTER VERIFICATION

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PARCEL			PARCEL	NUMBER	MAP	TOT	
NUMBER			ADDRESS	OF ACRES	NO	LOT NO	
			12011200	OF ACKED	NO	NO	
162200006	9894	60TH		5.00	А	l	
162200007		60TH		5.00		2	
162200008		LIMONIT	E	5.00		3	
162200009		LIMONIT	E	4.95		4	
162200010	9951	LIMONIT	E	9.65		5	
162210011	10001	LIMONIT	'E	9.76		6	
162210001	9709	60TH		5.00		1	
162210002	6067	BEACH		5.00	В	2	
162210003		LIMONIT	Е	5.00	В	3	
162210004		LIMONIT		5.00	B	4	
165050001	8618	54TH	-	2.50	C		
165050002	8646	54TH		2.50		1	
165050005	5424	PEDLEY		5.00	с с	2	
165050006	5494	PEDLEY				3	
165060001	5419	PEDLEY		5.00	C	4	
165060002	5455	PEDLEY		5.00	D	1	
165060003	5489	PEDLEY		2.86	D	2	
165060013	5511			2.86	D	3	
165080003		PEDLEY		3.01	D	4	
165080004	5723 5723	PEDLEY		3.25	Е	1	
165080004	5733	PEDLEY		3.25	E	2	
	5793	PEDLEY		7.00	E	3	
165080007	5760	PEDLEY		3.00	Е	4	
165080009	8705	58TH		5.00	Е	5	
165080010	8695	58TH		2.39	Е	6	
165080012	8696	56TH		5.00	E	7	
165091015	5685	PEDLEY		3.85	F	1	
165092004	5690	5685		1.82	F	2	
165140008	5935	5685		5.89	G	1	
165140029	5831	5685		4.50	G	2	
165140030	5853	5685		2.16	G	3	
165160001	8626	58 T H		3.82	н	1	
165160002	8662	58TH		2.50	н	2	
165160003	8710	58TH		2.50	H	3	
166030025	8238	JURUPA		9.22	I	1	
166030023	4800	STONE		14.52	I	2	
166030011	4992	STONE		4.63	I	3	
166050008	4695	TYROLITH	ŝ	3.36	J	1	
166060005	4911	TYROLITE	2	8.93	ĸ	1	
166060006	4799	TYROLITE	2	6.19	к	2	
166070001	5040	AGATE		4.85	L	1	
166070030	5070	AGATE		2.33	L	2	
166070009	5025	STONE		2.69	L	3	
166070011	5065	STONE		3.63	L	4	
166090001	5289	STONE		9.82	M	1	
166090002	5250	STONE		5.28	M	2	
166090004	5256	AGATE		12.88	M	2 3	
166090023	8440	54TH		2.26			
166090026		AGATE		4.67	M M	4 E	
166190017	8600	58TH			M	5	
167020002		GALENA		10.00	N	1	
				33.71	0	1	

Jurupa Community Services District LAND USE CONVERSION REQUESTS FY 95-96 AFTER WATERMASTER VERIFICATION

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PARCEL NUMBER		PARCEL ADDRESS	NUMBER OF ACRES	MAP NO	LOT NO
167020006		GALENA	9.70	•	~
167020007		GALENA	29.20	0 0	2 3
167020008		GALENA	33.70	0	3 4
167110008	9440	GALENA	10.93	P	1
167160042	4777	FELSPAR	9.37	Q	1
169070006	8705	MISSION	2.57	R	1
169210008	8721	GALENA	1.40	S	1
169270018	4930	AGATE	4.71	T	1
169280020	4945	PEDLEY	2.45	τ υ	1
169280022	8864	PEDLEY	2.71	U	2
169290011	5015	PEDLEY	5.00	v	1
169290020	5071	PEDLEY	4.77	v	2
169290021	5151	PEDLEY	4.77	v	3
169300003	5339	PEDLEY	7.50	W	1
169300005	5355	PEDLEY	8.35	W	2
169300007	5335	PEDLEY	2.39	W	3
169300008	5261	PEDLEY	2.39	W	4
169300009	5235	PEDLEY	2.39	W	5
169300010	5205	PEDLEY	2.38	W	6
169310002	5074	PEDLEY	3.01	X	1
1693 1 0003	5071	AGATE	2.72	х	2
169310026	5329	AGATE	2.48	х	3
169310028	5271	AGATE	2.48	x	4
170310041	9200	MISSION	4.14	х	1
171040027	3851	PYRITE	15.41	Y	1
171050013	4100	AGATE	7.69	Z	1
171090011	8531	MISSION	3.22	AA	1
171190004	7868	MISSION	10.96	BB	1
171220002	7837	GALENA	9.64	CC	1
173160020	9150	GRANITE HILL	4.03	DD	1
173160024	8931	GRANITE HILL	2.06	DD	2
173160032	8951	HIGHWAY	4.13	DD	3
183030014	7586	JURUPA	6.92	EE	1

TOTAL ACRES 508.56

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Monte Vista Water District P.O. Box 71 Montclair, CA 91763-0071

Proposed Conversion Acres Submitted by Gil Martinez, August 2, 1995

Property No.	Approximate Ac	creage APN (Lot No.)
Α	4.3	1013-131-15,17,19
A 1	2.4	1013-131-15,17,19 (Lot 1 & 6)
С	8.0	1013-171-1 thru 5
E	9.6	1013-271-1
		1013-531-5
G	9.0	1013-291- 6 & 7
I	10.0	1013-521-4 (Lot 1)
N	.5	1016-101-1
	43.66	

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Prepared by J.R. Theirl August 14, 1995 Based on information provided by Gil Martinez of MVWD on August 2, 1995. .

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City of Ontario Existing Agricultural Uses Exhibit A

Identification	APN	Address	
1	11335102	1348 S GROVE AV	Acreage
2	11336103	1540 S GROVE AV	11.500
3	11336104		7.231
4	11336105	1460 S PARCO AV 1442 S PARCO AV	0.904
5	11336106		0.454
6	11336107	1436 S PARCO AV	0.232
7	11336116	1410 S PARCO AV	5.518
8	11336118	1551 S GROVE AV	12.255
9	11341421	1405 S GROVE AV	11.642
10	11343105	1704 S VINEYARD AV	3.677
11	11343105	1160 S MILDRED AV	51.026
12	11351208	O E AIRPORTOIA	8.524
13	21019210	O E AIRPORTOIA	7.400
15	21019210 21121104	572 N TURNER AV	22.343
15	21121104 21121109	3000 E JURUPA ST	20.039
15		1200 S ARCHIBALD AV	19.395
10	21121111	2900 E JURUPA ST	65.765
17	21131203	O E MISSION BL	4.020
18	21131204 21134101	O E MISSION BL	2.022
20		O S SEAGULL AV	0.615
20 21	21134102	O E JURUPA ST	0.782
21 22	21134103	O E JURUPA ST	0.534
23	21134104	O E JURUPA ST	0.530
23 24	21134105	O E JURUPA ST	0.532
24 25	21134106	O S AVIATION DR	0.786
	21134107	O S AVIATION DR	1.016
26 27	21808103	2300 S MILLIKEN AV	46.266
	21808105	O E MISSION BL	0.263
28 61	21808108	O E MISSION BL	49.657
	21809124	O S MILLIKEN AV	15.280
29 20	23801131	1000 N ROCHESTER AV	2.270
30	23801219	O E INLAND EMPIRE BL	10.664
31	23801223	O E FOURTH ST	13.856
32	23808140	O S WINEVILLE AV	2.655
33	23824110	5010 E AIRPORT DR	0.000
34	101120109	1241 W STATE ST	0.000
35	101120110	1211 W STATE ST	2.434
36	101120111	520 S MAGNOLIA AV	2.409
37	101122102	616 OAKS AV	0.000
38	101142109	O S ELDERBERRY AV	0.942
39	101142111	O S ELDERBERRY AV	1.942
40	101152112	O S ELDERBERRY AV	1.005
41	101153103	O S BENSON AV	2.566
42	101153104	O S BENSON AV	1.860
43	101143105	O S BENSON AV	4.781
44	101412103	O S OAKS AV	0.063
45	101412104	O S OAKS AV	1.705
46	101421112	1320 W FRANCIS ST	7.281
47	104921105	720 E SUNKIST ST	0.000
48	104930105	752 W PARK ST	2.668
49 50	104930106	720 W PARKS ST	2.685
50	104942104	1310 S CUCAMONGA AV	4.694
51	104950102	1125 S SULTANA AV	0.207

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City of Ontario Existing Agricultural Uses Exhibit A

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Identification	APN	Address	Acreage
52	105013102	1518 S CUCAMONGA AV	0.000
53	105013103	1558 S CUCAMONGA AV	6.028
53	105016103	1556 S GRPVE AV	0.000
55	105017102	1642 S GROVE AV	9.563
56	105018103	1743 S CUCAMONGA AV	8.970
57	105020101	1687 S BON VIEW AV	9.547
58	105036108	1844 S FERN AV	0.000
59	105045104	1921 S BON VIEW AV	4.740
60	105046109	1056 E FRANCIS ST	9.064
61	011340102	1533 S PARCO AVE	29.000
62	101121106	1300 W MISSION BLVD	1.000
63	101138204	1055 W MISSION BLVD	1.000
64	101446205	1951 S PALMETTO AVE	1.000
65	105115103	1256 E PHILADELPHIA ST	6.000
66	105157177	NW CORNER GROVE AVE &	1.000
		RIVERSIDE DR	1000
67	104947204	CAMPUS	6.000
		(N OF FRANCIS, S OF PHILLIPS)	
68	011008107	1633 E HOLT BLVD	5.000
69	105144103	NW CORNER EUCLID AVE	10.000
·		& RIVERSIDE DR	

Total 544 Acres

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City of Chino CHINO BASIN LAND USE CONVERSION PARCELS TO BE CONVERTED IN FY 94/95

PROPERTY	ACREAGE	ADDRESS	APN	GENERAL NOTES
No		N/S - E/S		
8	10	3600/13650	1019-611-28,39,40	IRRIGATED LANDSCAPE/UNDER DEVELOPMENT
			1019-611-41,42,43,49	
10	31	3900/14000	1022-031-2	ENTERTAINMENT COMPLEX
			1022-26-4	
			1022-27-4	
•			1022-082-1,2,8,9,10	
13	142	4300/14300	1022-42-6 7,8	COMM/IND - WAREHOUSE
			1022-41-5	
			1022-56-2	
			1022-53-11,12,13	
			1022-431-8	
			1022-441-8	
			1022-541-3	
18	70	5300-15400	1028-201-13,17	COMM/IND (MISSION LAUNDRY)
			1028-511-1 thru 20	
			1028-501-1 thru 25	
			1028-491-1 thru 9	
23	26	6400/13900	1021-251-1,20	RESIDENTIAL DEVELOPMENT/COMMERCIAL PAR
-			1021-241-2,3	
29	39.5	6600/13900	1053-251-1,2,3,4	RESIDENTIAL DEVELOPMENT
			1053-241-68	
			1053-011-2 thru 5	
30	99	5700/14150	1021-351-1,2	AYALA PARK
			1021-321-1,2	
			1021-311-1,2	
			1021-281-1	
			1026-011-1	
32	61	6950/13100	1052-051-1 thru 18	DOMESTIC SERVICE ONLY/RESIDENTIAL
			1052-051-20 thru 25	
*	41	3950/13900	1022-082-1 thru 11	COMMERCIAL DEVELOPMENT
			1022-251-3 thru 14	
TOTAL	519.5			

* acreage above property number 11 (MAJESTIC SPECTRUM POWER CENTER)

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Jurupa Community Services District LAND CONVERSION REQUESTS FY 94-95 OUTSIDE OF CONVERSION AREA NO. 1

PARCEL NUMBER		PARCEL ADDRESS	NUMBER OF ACRES	MAP NO	lot NO
156020026	12400	PHILADELPHIA	10.25	А	1
156020027	12350	PHILADELPHIA	15.41	A	2
156020030			8.79	A	3
156160018	3791	DE FOREST	10.75	В	1
156160035	3065	DULLES	5.21	в	2
156160036	3058	DULLES	9.42	В	3
156160037			7.31	в	4
156160038			5.03	в	5
156160039	3178	DULLES	5.11	в	6
156160046	3431	DE FOREST	5.10	в	7
156160058			2.45	в	8
156160059			1.60	в	9
156160060			0.19	в	10
156160061			0.22	в	11
15 6160065	3450	DULLES	5.50	в	12
156160066	3204	DE FOREST	5.20	в	13
156160067			5.37	в	14
156160068			5.00	в	15
156160069	3384	DE FOREST	5.00	в	16
156160070			5.21	в	17
156160071	3725	NOBEL	7.88	в	18
156160072			3.55	B	19
156160073	3444	DE FOREST	1.20	в	20
156160074	3590	DE FOREST	10.66	В	21
156160080			5.16	B	22
156160081			6.25	в	23
156160082	10885	INLAND	11.43	в	24
156160084	10980	INLAND	2.51	в	25
156160087	3305	DULLES	20.47	в	26
156160088	3305	DULLES	44.37	в	27
156160089	3305	DULLES	8.40	в	28
156160095	3038	DEERE	12.94	в	29
156160096	3371	DE FOREST	25.03	в	30
156160097			23.97	в	31
183030007	7545	JURUPA	9.90	C	3
183030008	7585	JURUPA	1.99	C	2
183030033	7491	JURUPA	5.69	c	ĩ
183080010	7371	JURUPA	7.55	D	1
		TOTAL ACRES	327.07		

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City of Ontario Existing Agricultural Uses Exhibit A

Identification	APN	Address	Aarongo
1	11335102	1348 S GROVE AV	Acreage 11.500
2	11336103	1550 S PARCO AV	
3	11336104	1460 S PARCO AV	7.231
4	11336105	1400 STARCO AV 1442 S PARCO AV	0.904
5	11336106	1442 STARCO AV 1436 S PARCO AV	0.454
6	11336107	1450 S FARCO AV 1410 S PARCO AV	0.232
7	11336116		5.518
8	11336118	1551 S GROVE AV	12.255
9	11341421	1405 S GROVE AV	11.642
10	11343105	1704 S VINEYARD AV	3.677
10	11343105	1160 S MILDRED AV	51.026
11	11351208	O E AIRPORTOIA	8.524
12		O E AIRPORTOIA	7.400
13	21019210	572 N TURNER AV	22.343
14	21121104	3000 E JURUPA ST	20.039
	21121109	1200 S ARCHIBALD AV	19.395
16 17	21121111	2900 E JURUPA ST	65.765
17	21131203	O E MISSION BL	4.020
18	21131204	O E MISSION BL	2.022
19 20	21134101	O S SEAGULL AV	0.615
20	21134102	O E JURUPA ST	0.782
21	21134103	O E JURUPA ST	0.534
22	21134104	O E JURUPA ST	0.530
23	21134105	O E JURUPA ST	0.532
24	21134106	O S AVIATION DR	0.786
25	21134107	O S AVIATION DR	1.016
26	21808103	2300 S MILLIKEN AV	46.266
27	21808105	O E MISSION BL	0.263
28	21808108	O E MISSION BL	49.657
61	21809124	O S MILLIKEN AV	15.280
29	23801131	1000 N ROCHESTER AV	2.270
30	23801219	O E INLAND EMPIRE BL	10.664
31	23801223	O E FOURTH ST	13.856
32	23808140	O S WINEVILLE AV	2.655
33	23824110	5010 E AIRPORT DR	0.000
34	101120109	1241 W STATE ST	0.000
35	101120110	1211 W STATE ST	2.434
36	101120111	520 S MAGNOLIA AV	2.409
37	101122102	616 OAKS AV	0.000
38	101142109	O S ELDERBERRY AV	0.942
39	101142111	O S ELDERBERRY AV	1.942
40	101152112	O S ELDERBERRY AV	1.005
41	101153103	O S BENSON AV	2.566
42	101153104	O S BENSON AV	1.860
43	101143105	O S BENSON AV	4.781
44	101412103	O S OAKS AV	0.063
45	101412104	O S OAKS AV	1.705
46	101421112	1320 W FRANCIS ST	7.281
47	104921105	720 E SUNKIST ST	0.000
48	104930105	752 W PARK ST	2.668
49	104930106	720 W PARKS ST	2.685
50	104942104	1310 S CUCAMONGA AV	4.694
51	104950102	1125 S SULTANA AV	4.094 0.207
			V.4U/

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City of Ontario Existing Agricultural Uses Exhibit A

Identification	APN	Address	Acreage
52	105013102	1518 S CUCAMONGA AV	0.000
53	105013103	1558 S CUCAMONGA AV	6.028
53	105016103	1556 S GRPVE AV	0.000
55	105017102	1642 S GROVE AV	9.563
56	105018103	1743 S CUCAMONGA AV	8.970
57	105020101	1687 S BON VIEW AV	9.547
58	105036108	1844 S FERN AV	0.000
59	105045104	1921 S BON VIEW AV	4.740
60	105046109	1056 E FRANCIS ST	9.064
61	011340102	1533 S PARCO AVE	29.000
62	101121106	1300 W MISSION BLVD	1.000
63	101138204	1055 W MISSION BLVD	1.000
64	101446205	1951 S PALMETTO AVE	1.000
65	105115103	1256 E PHILADELPHIA ST	6.000
66	105157177	NW CORNER GROVE AVE &	1.000
		RIVERSIDE DR	1,000
67	104947204	CAMPUS	6.000
		(N OF FRANCIS, S OF PHILLIPS)	0.000
68	011008107	1633 E HOLT BLVD	5.000
69	105144103	NW CORNER EUCLID AVE	10.000
		& RIVERSIDE DR	10.000

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Total 544 Acres

***** NOTICE OF HEARING ***** то - ALL ACTIVE CHINO BASIN PARTIES, CASE NO. 164327 WHEN - JANUARY 5, 1979, 1:30 P.M. WHERE - SAN BERNARDINO SUPERIOR COURT, DEPARTMENT 2 351 NORTH ARROWHEAD AVENUE, SAN BERNARDINO, CALIF. WHAT - THE FOLLOWING ITEMS ARE FOR APPROVAL. 1. FIRST ANNUAL WATERMASTER REPORT. 2. 1977/78 PRODUCTION SUMMARY. 3. FORM OF LOCAL STORAGE AGREEMENT. 4. M.W.D. CYCLIC STORAGE AGREEMENT. 5. INTERVENTIONS AND ASSIGNMENTS. YOUR PRESENCE AT THIS HEARING IS NOT REQUIRED, BUT YOUR ATTENDANCE IS WELCOME. NOTE - FILING WITH THE DIVISION OF WATERRIGHTS IS NO LONGER NECESSARY, JUST RETURN THEIR FORMS INDICATING YOU REPORT TO THE CHINO BASIN WATERMASTER. FRAN BROMMENSCHENKEL 987-1712

APPENDIX H

ORANGE COUNTY ADJUDICATION

JUDGMENT No. 117628, April 17, 1969

JUDGMENT

l		6 APR 1 2 1985 E.
2		W. E. ST 10008, County Clark Burger Dopting
3	ENTERED IN	Chamaran hear was a Deputy
4	JUDGMENT BOOK	
5	No. 262 Page 303 Date AFR 1 7 1969	
6	Date AFR 17 1969	
7		
8	SUPERIOR COURT FOR THE STATE OF	CALIFORNIA
9	FOR THE COUNTY OF ORAN	IGE
10		
11	ORANGE COUNTY WATER DISTRICT,)	
12	Plaintiff,)	
13	v.)	
14	CITY OF CHINO, et al.,	
15	Defendants.)	
16	CITY OF CHINO, et al.,	
17	Cross-Complainants,	
18	v	No. 117628
19	CITY OF ANAHEIM, et al.,	JUDGMENT
2Ò	Cross-Defendants.	
21)
22	CORONA FOOTHILL LEMON COMPANY, et al.,)
23	Cross-Complainants,)
24	V.	
25	CITY OF ANAHEIM, et al.,)
26	Cross-Defendants.))
27	CITY OF POMONA, a municipal corporation,)
28	Cross-Complainant,))
29	v.)
30	CITY OF ANAHEIM, et al.,)
31	Cross-Defendants.)
32		1

1 1 CITY OF RIVERSIDE, et al., Cross-Complainants, 2 3 v. CITY OF ANAHEIM, et al., 4 Cross-Defendants. 5 6 BEAR VALLEY MUTUAL WATER COMPANY, et al., 7 Cross-Complainants, 8 v. 9 CITY OF ANAHEIM, et al., 10 Cross-Defendants. 11 SAN BERNARDINO VALLEY MUNICIPAL WATER 12 DISTRICT, a municipal water district, 13 Cross-Complainant, 14 v. 15 CITY OF ANAHEIM, et al., 16 Cross-Defendants. 17 EAST SAN BERNARDINO COUNTY WATER 18 DISTRICT, a county water district, 19 Cross-Complainant, 20 v. 21 CITY OF ANAHEIM, et al., 22 Cross-Defendants. 23 CITY OF SAN BERNARDINO, a municipal 24 corporation, 25 Cross-Complainant, 26 v. 27 CITY OF ANAHEIM, et al., 28 Cross-Defendants. 29 30 31 321

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1 CITY OF REDLANDS, a municipal corporation,) 2 Cross-Complainant, 3 v. 41 CITY OF ANAHEIM, et al., 5 Cross-Defendants. 6 CITY OF COLTON, a municipal corporation, 7 Cross-Complainant, 8 v. 9 CITY OF ANAHEIM, et al., 10 Cross-Defendants. 11 12 SAN BERNARDINO VALLEY WATER CONSERVATION DISTRICT, a water conservation district, 13 Cross-Complainant, 14: v. 15 CITY OF ANAHEIM, et al., 16 Cross-Defendants. 17 18 CITY OF RIALTO, a municipal corporation, 19 Cross-Complainant, 20 v. 21 CITY OF ANAHEIM, et al., 22 : Cross-Defendants. 23 . BIG BEAR MUNICIPAL WATER DISTRICT, a 24 municipal water district, 25 Cross-Complainant, 26 v. 27 CITY OF ANAHEIM, et al., 28 Cross-Defendants. 29 30 31 32

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Accoordination b. 1. 5 6 7 3. a. 6 7 8 9 3. a. 5 6 7 8 <</td> <td>a "A" Map entitled "San "B" Engineering Append 1. <u>Measurements</u> a. Change in b. Erroneous c. Prelimina 2. <u>Determination</u> 3. <u>Water Quality</u> a. Procedure b. Procedure b. Procedure 4. <u>Accounting</u> a. Prado Acc b. Riverside 5. 6. 77 8. 8. 99 20 21 22 23 24 25 26 26 27 28 29 30 31 32 34 34 34 35 35 36 35 36 36 30 30 30 31 32 34 34 35 35 36 36 36 37 36 37 37 37 38 38 39 30 30 30 30 30 30 30 30 30 30 30 30 30</td> <td>EXH A "A" Map entitled "Santa An "B" Engineering Appendix 1. <u>Measurements</u> a. Change in Meas b. Erroneous Meas c. Preliminary Re 2. <u>Determination of F</u> 3. <u>Water Quality Dete</u> a. Procedure at F b. Procedure at F b. Procedure at F b. Procedure at F b. Riverside Narr 5. 6. 7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9</td> <td>EXHIBITS</td> <td>EXHIBITS "A" Map entitled "Santa Ana River W "B" Engineering Appendix 1. <u>Measurements</u> a. Change in Measuring Dev b. Erroneous Measurement c. Preliminary Records . 2. <u>Determination of Flow Compc</u> 3. <u>Water Quality Determination</u> a. Procedure at Prado . b. Procedure at Riverside 4. <u>Accounting</u> b. Riverside Narrows Accounts 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.</td> <td>EXHIBITS **A" Map entitled "Santa Ana River Water 5 **B" Engineering Appendix 1. Measurements 7 a. Change in Measuring Device b. Erroneous Measurement 7 a. Change in Measurement 7 a. Change in Measurement 7 a. Change in Measurement 8 9 2. Determination of Flow Component 3. Water Quality Determinations a. Procedure at Prado 5 6 7 8 9 1 1 1 2 1 3 4 5 6 7 8 9 9 1 1 1 1 2 2 3 4 5 <t< td=""><td>EXHIBITS "A" Map entitled "Santa Ana River Watersheed "B" Engineering Appendix 1. Measurements a. Change in Measuring Device or 1 b. Erroneous Measurement c. Preliminary Records 9 2. Determination of Flow Components 9 2. Determination of Flow Components 9 1 a. Procedure at Prado 3 4. Accounting 5 6 7 a. 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RECITALS

1 . The complaint herein was filed on a. Complaint. 2 October 18, 1963, seeking an adjudication of water rights against 3 substantially all water users in the area tributary to Prado Dam 4 in the Santa Ana River Watershed. 5 b. Cross-Complaints. Thirteen cross-complaints were sub-6 sequently filed in the period of February 22 to March 22, 1968, by 7 which said adjudication of rights was extended to substantially 8 all water users within the Santa Ana River Watershed downstream 9 from Prado Dam. 10 Physical and Legal Complexities. The physical and c. 11 legal complexities of the case as framed by the complaint and 12 cross-complaints are unprecedented. In excess of 4,000 individual 13 parties have been served and the water supply and water rights of 14 an entire stream system extending over 2,000 square miles and into 15 four counties have been brought into issue. Every type and nature 16 of water rights known to California law, excepting only Pueblo 17 rights, is in issue in the case. Engineering studies by the 18 parties jointly and severally leading toward adjudication of these 19

> rights or, in the alternative, to a physical solution, have re-20 guired the expenditure of over four years' time and many hundreds 21: of thousands of dollars. 22

Need for Physical Solution. It is apparent to the d. 23 parties and to the Court that development of a physical solution 24 based upon a formula for inter-basin allocation of obligations and 25 rights is in the best interests of all the parties and is in fur-26 therance of the water policy of the State. For purposes of such a 27 physical solution, it is neither necessary nor helpful to define 28 ! individual rights of all claimants within the watershed. Nontribu-; 29 tary supplemental sources of water are or will be available to the 30 % 31 parties in quantities sufficient to assure implementation of a solution involving inter-basin allocation of the natural water 321

-6~

1 supply of the Santa Ana River system. Sufficient information and 2 data of a general nature are known to formulate a reasonable and 3 just allocation as between the major hydrologic sub-areas within 4 the watershed, and such a physical solution will allow the public 5 agencies and water users within each such major hydrologic sub-6 area to proceed with orderly water resource planning and develop-7 ment.

8 e. Parties. Orange County Water District, Chino Basin 9 Municipal Water District, Western Municipal Water District of 10 Riverside County and San Bernardino Valley Municipal Water District 11 are public districts overlying, in the aggregate, substantially all 12 of the major areas of water use within the watershed. Said dis-13 tricts have the statutory power and financial resources to imple-14 ment a physical solution. Accordingly, dismissals have been entered 15 as to all defendants and cross-defendants other than said four pub-16. lic districts.

17 f. <u>Cooperation by Dismissed Parties</u>. As a condition of 18 dismissal of said defendants and cross-defendants, certain of said 19 parties have stipulated to cooperate and support the inter-basin 20 water quality and water management objectives of the physical solu-21 tion and this Judgment.

DECREE

22

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NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED:
24: 1. Jurisdiction. The Court has jurisdiction of the subject
25 matter of this action and of the parties herein.

26 2. Exhibits. The following exhibits are attached to this 27 Judgment and made a part hereof.

(a) Exhibit A -- map entitled "Santa Ana River
Watershed", showing boundaries and other relevant
features of the area subject to this Judgment.
(b) Exhibit B -- Engineering Appendix.

3. Definitions. As used in this Judgment, the following

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terms shall have the meanings herein set forth: 1 (a) OCWD -- Orange County Water District, 2 appearing and acting individually and in a represen-3 tative capacity for and on behalf of all riparian, 4 overlying and other landowners, water users and in-. 5 habitants within said District pursuant to Subdivision 6 7 of Section 2 of the Orange County Water District Act, 7 as amended. 8 CBMWD -- Chino Basin Municipal Water District, 9! (b) appearing and acting pursuant to Section 71751 of the 10 California Water Code. 11 (c) WMWD -- Western Municipal Water District of 12 Riverside County, appearing and acting pursuant to 13 said Section 71751. 14 SBVMWD -- San Bernardino Valley Municipal Water 15 (d) District, appearing and acting pursuant to said Section 16 71751. 17 Upper Districts -- CBMWD, WMWD and SBVMWD. (e) 18: Upper Area -- The area on Exhibit A which lies (f) 19 upstream from Prado. 20 Lower Area -- The area on Exhibit A which lies 21 (g) downstream from Prado. 22 Prado -- Said term shall be synonomous with 23! (h) Prado Dam, a facility constructed and maintained by the 24 United States Corps of Engineers, as shown on Exhibit A. 25 Riverside Narrows -- That bedrock narrows 26 (i) in the Santa Ana River indicated as such on Exhibit A. 27 (j) Storm Flow -- That portion of the total sur-28 29 face flow passing a point of measurement, which originates from precipitation and runoff without having 30 !! 31 first percolated to ground water storage in the zone of saturation, calculated in accordance with procedures 32

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referred to in Exhibit B. (k) Base Flow -- That portion of the total surface flow passing a point of measurement, which remains after deduction of Storm Flow, and modified as follows: At Prado. Base Flow shall: (1) include any water caused to be (i) delivered by CBMWD or WMWD directly to 8 OCWD, pursuant to its direction and control 9 and not measured at the gages at Prado; 10 (ii) exclude any nontributary water 11 or reclaimed sewage water purchased by 12 OCWD and delivered into the river upstream 13 and which subsequently passes Prado, and 14 (iii) exclude water salvaged from 15 evapo-transpiration losses by OCWD on lands 16 presently owned by it above Prado. 17 (2) At Riverside Narrows. Base Flow shall: 18 (i) include any water caused to be 19 delivered by SBVMWD directly to CBMWD or 20 WMWD pursuant to their direction and con-21 trol, or directly to OCWD with the consent 22 of CBMWD and WMWD and pursuant to the direc-23 tion and control of OCWD, and not measured 24 at the gage at Riverside Narrows; 25 (ii) exclude any nontributary water 26 purchased by CBMWD, WMWD or OCWD and deliv-27 ered into the river upstream and which sub-28 sequently passes Riverside Narrows; and 29 (iii) exclude any effluent discharged 30 from the City of Riverside sewage treatment 31

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 (1) <u>TDS</u> -- Total dissolved solids determined as set forth in Exhibit B.

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(m) <u>Water Year</u> -- The period from October 1 to the following September 30. Where reference is made herein to "year" or "annual", such terms shall be construed as referring to Water Year, unless the context indicates otherwise.

(n) Adjusted Base Flow -- Actual Base Flow in each year adjusted for quality as provided hereinbelow. Compliance with the respective obligations under Paragraph 5 shall be measured by the Adjusted Base Flow.

4. Declaration of Rights. Substantially all of the parties 13 to this action, whether situate in Upper Area or Lower Area have or 141 claim rights to the use of a portion of the water supply of the 15 Santa Ana River system. In the aggregate, water users and other 16 entities in Lower Area have rights, as against all Upper Area 17 claimants, to receive an average annual supply of 42,000 acre feet 18: of Base Flow at Prado, together with the right to all Storm Flow 19: reaching Prado Reservoir. Water users and other entities in Upper 20 Area have rights in the aggregate, as against all Lower Area claim-21 ants, to divert, pump, extract, conserve, store and use all surface 22 and ground water supplies originating within Upper Area without 23 interference or restraint by Lower Area claimants, so long as Lower 24 Area receives the water to which it is entitled under this Judgment, 25 26 ¹ and there is compliance with all of its provisions.

5. <u>Physical Solution</u>. The Court hereby declares the following physical solution to be a fair and equitable basis for satisfaction of all said rights in the aggregate between Lower Area and Upper Area. The parties are hereby ordered and directed to comply with this Physical Solution and such compliance shall constitute full and complete satisfaction of the rights declared in

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1 Paragraph 4 hereof.

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General Format. In general outline, SBVMWD (a) shall be responsible for the delivery of an average annual amount of Base Flow at Riverside Narrows. CBMWD and WMWD shall jointly be responsible for an average annual amount of Base Flow at Prado. Insofar as Lower Area claimants are concerned, Upper Area water users and other entities may engage in unlimited water conservation activities, including spreading, impounding and other methods, in the area above Prado Reservoir, so long as Lower Area receives the water to which it is entitled under the Judgment and there is compliance with all of its provisions. Lower Area water users and other entities may make full conservation use of Prado Dam and reservoir, subject only to flood control use.

(b) Obligation of SBVMWD. SBVMWD shall be responsible for an average annual Adjusted Base Flow of 15,250 acre feet at Riverside Narrows. A continuing account, as described in Exhibit B, shall be maintained of actual Base Flow at Riverside Narrows, with all adjustments thereof and any cumulative debit or credit. Each year the obligation to provide Base Flow shall be subject to the following:

(1) <u>Minimum Annual Quantities</u>. Without regard to any cumulative credits, or any adjustment for quality for the current Water Year under subparagraph (2) hereof, SBVMWD each year shall be responsible at Riverside Narrows for not less than 13,420 acre feet of Base Flow plus one-third of any cumulative debit; provided, however, that for any year

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commencing on or after October 1, 1986, when there is no cumulative debit, or for any year prior to 1986 whenever the cumulative credit exceeds 10,000 acre feet, said minimum shall be 12,420 acre feet.

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(2) Adjustment for Quality. The amount of Base Flow at Riverside Narrows received during any year shall be subject to adjustment based upon the weighted average annual TDS in such Base Flow, as follows:

If the Weighted Average TDS in Base Flow at Riverside Narrows is:	Then the Adjusted Base Flow shall be determined by the formula:				
Greater than 700 ppm	$Q = \frac{11}{15,250} Q$ (TDS-700)				
600 ppm - 700 ppm	Q				
Less than 600 ppm	$Q + \frac{11}{15,250} Q (600-TDS)$				

Where: Q = Base Flow actually received.

(3) <u>Periodic Reduction of Cumulative Debit</u>. At least once in any ten (10) consecutive years subsequent to October 1, 1976, SBVMWD shall provide sufficient quantities of Base Flow at Riverside Narrows to discharge completely any cumulative debits. Any cumulative credits shall remain on the books of account until used to offset any subsequent debits, or until otherwise disposed of by SBVMWD.

(c) <u>Obligation of CBMWD and WMWD</u>. CBMWD and
 WMWD shall be responsible for an average annual
 Adjusted Base Flow of 42,000 acre feet at Prado. A
 continuing account, as described in Exhibit B, shall

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1	be maintained of actual Base Flow at Prado, with all	
2	adjustments thereof and any cumulative debit or	
3	credit. Each year the obligation to provide Base	
4	Flow shall be subject to the following:	
5	(1) Minimum Annual Quantities. Without	
6	regard to any cumulative credits, or any adjust-	
7	ments for quality for the current Water Year	
8	under subparagraph (2) hereof, CBMWD and WMWD	
9	each year shall be responsible for not less than	
10	37,000 acre feet of Base Flow at Prado, plus one-	
11	third of any cumulative debit; provided, however,	
12	that for any year commencing on or after October 1	l,
13	1986, when there is no cumulative debit, or for	
14	any year prior to 1986 whenever the cumulative	
15	credit exceeds 30,000 acre feet, said minimum	
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16	shall be 34,000 acre feet.	
10	shall be 34,000 acre feet. (2) <u>Adjustment for Quality</u> . The amount of	
17	(2) Adjustment for Quality. The amount of	
17 18	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year	
17 18 19	(2) <u>Adjustment for Quality</u> . The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the	
17 18 19 20 21 22	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average Then the Adjusted Bas TDS in Base Flow and Flow shall be deter-	
17 18 19 20 21 22 23	 (2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average TDS in Base Flow and Storm Flow at Prado is: 	
17 18 19 20 21 22 23 24	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average Then the Adjusted Bas TDS in Base Flow and Flow shall be deter-	
17 18 19 20 21 22 23 23 24 25	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average TDS in Base Flow and Storm Flow at Prado is: Greater than 800 ppm $Q = \frac{35}{42,000}Q$ (TDS-800	
17 18 19 20 21 22 23 23 24 25 26	 (2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average TDS in Base Flow and Storm Flow at Prado is: Greater than 800 ppm Q - 35 Q (TDS-800 	
17 18 19 20 21 22 23 23 24 25	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average TDS in Base Flow and Storm Flow at Prado is: Greater than 800 ppm $Q = \frac{35}{42,000}Q$ (TDS-800)
17 18 19 20 21 22 23 24 25 26 27	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average TDS in Base Flow and Storm Flow at Prado is: Greater than 800 ppm $Q = \frac{35}{42,000}Q$ (TDS-800 Hess than 700 ppm Q + 35 Q (700-TDS)
17 18 19 20 21 22 23 24 25 26 27 28	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average TDS in Base Flow and Storm Flow at Prado is: Greater than 800 ppm $Q = \frac{35}{42,000}Q$ (TDS-800 Less than 700 ppm $Q + \frac{35}{42,000}Q$ (700-TDS)
17 18 19 20 21 22 23 24 25 26 27 28 29	(2) Adjustment for Quality. The amount of Base Flow at Prado received during any year shall be subject to adjustment based upon the weighted average annual TDS in Base Flow and Storm Flow at Prado as follows: If the Weighted Average Then the Adjusted Bas TDS in Base Flow and Flow shall be deter- storm Flow at Prado is: mined by the formula: Greater than 800 ppm $Q = \frac{35}{42,000}Q$ (TDS-800 Less than 700 ppm $Q + \frac{35}{42,000}Q$ (700-TDS Where: $Q =$ Base Flow actually received.)

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provide sufficient quantities of Base Flow at Prado to discharge completely any cumulative debits. Any cumulative credits shall remain on the books of account until used to offset any subsequent debits, or until otherwise disposed of by CBMWD and WMWD.

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(d) <u>Inter-basin Export</u>. Upper Districts are hereby restrained and enjoined from exporting water from Lower Area to Upper Area, directly or indirectly. OCWD is enjoined and restrained from pumping, producing and exporting or directly or indirectly causing water to flow from Upper to Lower Area, except as to salvage of evapo-transpiration losses, as follows: OCWD owns certain lands within and above Prado Reservoir on which it has or claims certain rights to salvage evapo-transpiration losses by pumping or otherwise. Pumping for said salvage purposes shall not exceed 5,000 acre feet of ground water in any water year. Only the actual net salvage, as determined by the Watermaster, shall be excluded from Base Flow.

(e) <u>Inter-basin Acquisition of Rights</u>. The acquisition by Upper Districts or other Upper Area entities of Lower Area water rights shall in no way affect or reduce Lower Area's entitlement; and the acquisition of Upper Area water rights by OCWD or other Lower Area entities shall be deemed to be included within the aggregate entitlement of Lower Area and shall not increase said entitlement.

29 (f) <u>Effective Date</u>. Obligations under this
30 physical solution shall accrue from and after
31 October 1, 1970.

6. Prior Adjudications. So long as SBVMWD is in

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1 compliance with the terms of the physical solution herein, OCWD is 2 enjoined and restrained from enforcing the judgments listed below against SBVMWD or any entities within or partially within SBVMWD 3 4 which have stipulated to accept and adopt such physical solution. So long as WMWD and CBMWD are in compliance with the terms of the 5 6 physical solution, OCWD is enjoined and restrained from enforcing 7 the judgments listed below against WMWD and CBMWD or any entities within or partially within WMWD or CBMWD which have stipulated to 8 9 accept and adopt such physical solution.

10 The Irvine Company, plaintiff, Orange County (a) 11 Water District, intervenor, vs. San Bernardino Valley 12 Water Conservation District, et al., defendants, U. S. Dist. Ct., S.D. Cal. Civ. No. Y-36-M, judgments 13 entered September 11, 1942 (Judgment Book 11 page 134), 14 and recorded Book 1540 page 251 and Book 1541 page 85, 15 16 Official Records of San Bernardino County. 17 (b) Orange County Water District vs. City of

Riverside, et al., San Bernardino Superior Court No. 84671.

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20 7. <u>Watermaster</u>. The Watermaster, when appointed by the
21 Court, shall administer and enforce the provisions of this Judg22 ment and the instructions and subsequent orders of this Court.

23 Composition, Nomination and Appointment. (a) 24 The Watermaster shall consist of a committee com-25 posed of five (5) persons. CBMWD, WMWD and SBVMWD 26 shall each have the right to nominate one represen-27 tative and OCWD shall have the right to nominate two (2) representatives to the Watermaster committee. 28 29 Each such nomination shall be made in writing, served upon the other parties to the Stipulation for this 30 31 Judgment and filed with the Court. Said Watermaster 32 representatives shall be appointed by and serve at

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the pleasure of and until further order of this Court.

(b) <u>Watermaster Determinations</u>. Each and every finding and determination of the Watermaster shall be made in writing certified to be by unanimous action of all members of the Watermaster Committee. In the event of failure or inability of said Watermaster Committee to reach unanimous agreement, the fact, issue, or determination in question shall forthwith be certified to this Court by the Watermaster, and after due notice to the parties and opportunity for hearing, said matter shall be determined by order of this Court.

(c) <u>Annual Report</u>. The Watermaster shall report to the Court and to each party in writing not more than five (5) months after the end of each Water Year, each of the items required by Paragraph 4 of the Engineering Appendix, Exhibit B hereto, and such other items as the parties may mutually request or the Watermaster may deem to be appropriate. All of the books and records of the Watermaster which are used in the preparation of, or are relevant to, such reported data, determinations and reports shall be open to inspection by the parties to the Stipulation for Judgment herein.

(d) <u>Watermaster Service Expenses</u>. The fees, compensation and expenses of each representative on the Watermaster shall be borne by the district which nominated such person. All other Watermaster service costs and expenses shall be borne by the parties in the following proportions: OCWD - 40%

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CBMWD - 20%

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1	SBVMWD - 20%
2	WMWD - 20%
3	The Watermaster may from time to time in its discre-
4	tion require advances of operating capital from the
5	parties in said proportions.
6	8. Continuing Jurisdiction of the Court. Full jurisdic-
7	tion, power and authority are retained and reserved by the Court
8	for the purpose of enabling the Court, upon application of any
9	party or of the Watermaster by motion and upon at least 30 days'
10	notice thereof, and after hearing thereon:
11	(a) To make such further or supplemental orders
12	or directions as may be necessary or appropriate for
13	the construction, enforcement or carrying out of
14	this Judgment, and
15	(b) To modify, amend or amplify any of the pro-
16	visions of this Judgment whenever substantial changes
17	or developments affecting the physical, hydrological
18	or other conditions dealt with herein may, in the
19 [:]	Court's opinion, justify or require such modification,
20	amendment or amplification; provided, however, that
21	no such modification, amendment or amplification shall
22	change or alter (1) the average annual obligation of
23	CBMWD and WMWD for delivery of 42,000 acre feet of
24	Base Flow per year at Prado, (2) the average annual
25	obligation of SBVMWD for delivery of 15,250 acre feet
26	of Base Flow per year at Riverside Narrows, (3) the
27	respective minimum Base Flows at Riverside Narrows and
28	Prado, nor (4) the right of the parties to this Judg-
29	ment or of those who stipulate to accept and adopt the
30	physical solution herein to conserve or store flows.
31	9. Notices. All notices, requests, objections, reports
32	and other papers permitted or required by the terms of this

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Judgment shall be given or made by written document and shall be 1 served by mail on each party and its attorney entitled to notice 2. and where required or appropriate, on the Watermaster. For all 31 purposes of this paragraph, the mailing address of each party and 4 attorney entitled to notice shall be that set forth below its sig-5 ! nature in the Stipulation for Judgment, until changed as provided 6 7 below. If any party or attorney for a party desires to change its designation of mailing address, it shall file a written notice of 8 9 such change with the Clerk of this Court and shall serve a copy thereof by mail on the Watermaster. Upon receipt of any such 10 11 notice, the Watermaster shall promptly give written notice there-12 of. Watermaster addresses for notice purposes shall be as specified in the orders appointing each representative on the Water-13 14 master.

15 10. <u>Successors</u>. No party shall dissolve, nor shall it 16 abandon or transfer all or substantially all of its powers or 17 property, without first providing for its obligations under this 18 Judgment to be assumed by a successor public agency, with the 19 powers and resources to perform hereunder. Any such successor 20 shall be approved by the Court after notice to all parties and an 21 opportunity for hearing.

Future Actions. In the event that any Lower Area 22 11. 23 claimant shall in the future obtain from any court of competent 24 jurisdiction a decree awarding to such claimant a right to receive 25 a stated amount of water from the Upper Area for use in the Lower 26 Area, any water delivered pursuant to such decree shall be consid-27 ered as part of Base Flow. In the event that the relief obtained 28 by any such claimant is in the form of a restriction imposed upon 29 production and the use of water in Upper Area, rather than a right 30 to receive a stated amount of water, then notwithstanding the 31 proviso in Paragraph 8, any Upper District may apply to the Court 32 : to modify the physical solution herein.

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12. Costs. None of the parties shall recover any costs from any other party. Dated: April 17, 1969 Junpe mar Judge -19-

APPENDIX I

WESTERN-SAN BERNARDINO ADJUDICATION

JUDGMENT No. 78426, April 17, 1969

JUDGMENT

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3		DONALD SELVINI, Clark By By Date Doputy
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8	IN THE SUPERIOR COURT OF THE STAT	TE OF CALIFORNIA
· 9	IN AND FOR THE COUNTY OF RI	IVERSIDE
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12	WESTERN MUNICIPAL WATER DISTRICT OF	
13	RIVERSIDE COUNTY, a municipal water district; CITY OF RIVERSIDE, a municipal corporation; THE GAGE CANAL COMPANY, a corporation; AGUA	
14	CANAL COMPANY, a corporation; AGUA	784/24 No.784726 2300 4/07/69
15	MANSA WATER COMPANY, a corporation, MEEKS & DALEY WATER COMPANY, a	No.784726 4/107/69
16	corporation; RIVERSIDE HIGHLAND WATER COMPANY, a corporation, and	
17	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA,	JUDGMENT
18	Plaintiffs,	•
19	-vs-	
20	(A) EAST SAN BERNARDINO COUNTY	
21	WATER DISTRICT, et al.,	
22	Defendants	
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	1		TABLE OF CONTENTS	
	2	RECITALS		
	3			Page
	4	I	Active Parties	5
	5	II	Dismissed Parties	5
	6	III	Prior Judgments	6
	7	IV	Definitions	7
	8	v	Extractions from the San Bernardino Basin Area	10
	9 10	VI	San Bernardino Basin Area Rights and Replenishment	10
	11	VII	Water Discharged Across the Bunker Hill Dike	16
-	12	VIII	Extractions from Colton Basin Area and	16
	13		Riverside Basin Area in San Bernardino County	
	14	IX	Extractions from the Portion of	20
	15		Riverside Basin Area in Riverside County which is tributary to Riverside Narrows.	
	16 17 18	x	Replenishment to Offset New Exports of Water to Areas not Tributary to Riverside Narrows.	21
	19	XI	Replenishment Credits and Adjustment for Quality	22
	20 21	XII	Conveyance of Water by San Bernardino Valley to Riverside Narrows.	24
	22	XIII	Watermaster	25
	23	VIX	Continuing Jurisdiction of the Court	27
	ļ	xv	Saving Clauses	29
	24	XVI	Effective Date	31
	25	XVII	Costs	31
	26			51
	27	APPENDIX	Area, Colton Basin Area, and	
	28		Riverside Basin Area situated within San Bernardino County:	
	29		Riverside Basin Area within Riverside County; Bunker Hill	
	30 31		Dike; Riverside Narrows; and	
	32		2.	
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Boundaries of San Bernardino Valley Municipal Water District & Western Municipal Water District of Riverside County

Extractions by Plaintiffs from San Bernardino Basin Area.

Exports for Use on Lands not Tributary to Riverside Narrows

Miscellaneous Data

APPENDIX B --

APPENDIX C --

APPENDIX D --

RECITALS

(a) <u>Complaint</u>. The complaint in this action was filed by certain parties exporting water from the area defined herein as the San Bernardino Basin Area for use within Western, and sought a general adjudication of water rights.

(b) Orange County Water District Action. Subsequently the Orange County Water District filed an action for the adjudication of the water rights of substantially all water users in the area tributary to Prado Dam in the Santa Ana River Watershed. A decree of physical solution has been entered in such action whereby individual water users were dismissed, and San Bernardino Valley and Western assumed responsibility for the deliveries of certain flows at Riverside Narrows and Prado respectively.

(c) <u>Physical Solution</u>. The Judgment herein will further implement the physical solution in the Orange County Water District action, as well as determine the rights of the hereinafter named Plaintiffs to extract water from the San Bernardino Basin Area, and provide for replenishment of the area above Riverside Narrows. Such Judgment is fair and equitable, in the best interests of the parties, and in furtherance of the water policy of the State. San Bernardino Valley has the statutory power and resources to effectuate this Judgment and accordingly the other defendants may be dismissed.

(d) <u>Stipulation</u>. The parties named herein through their respective counsel have proposed and filed a written stipulation agreeing to the making and entry of this Judgment.
 By reason of such stipulation, and good cause appearing

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	2	therefor,
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	3	IT IS HEREBY ORDERED, ADJUDGED AND DECREED as follows:
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	6	ACTIVE PARTIES
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	8	(a) The parties to this Judgment are as follows:
	9	(1) Plaintiff Western Municipal Water District
	10	of Riverside County, a California municipal water district,
	11	herein often called "Western", appearing and acting pursuant to
	12	Section 71751 of the Water Code;
·	13	(2) Plaintiff City of Riverside, a municipal
	14	corporation;
	15	(3) Plaintiffs Riverside Highland Water
• •	-16	Company, Agua Mansa Water Company and Meeks & Daley Water
	17	Company, each of which is a mutual water company and a
•	18	California corporation;
	19	(4) Plaintiff The Regents of the University
· .	20	of California, a California public corporation;
· · · · ·	21	(5) Defendant San Bernardino Valley
	22	Municipal Water District, a California municipal water district,
· ·	23	herein often called "San Bernardino Valley", appearing and
	24	acting pursuant to Section 71751 of the Water Code;
	25	(b) This Judgment shall inure to the benefit of, and
	26	be binding upon, the successors and assigns of the parties.
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	28	II
	29	DISMISSED PARTIES
	30	All parties other than those named in the preceding
	31	Paragraph I are dismissed without prejudice.
	32	5.

PRIOR JUDGMENTS

III

(a) The Judgment dated and entered on May 13, 1959,
in that certain action filed in the Superior Court of the
State of California in and for the County of San Bernardino,
entitled and numbered "San Bernardino Valley Water
Conservation District, a State Agency, Plaintiff v. Riverside
Water Company, a corporation, et al., Defendants", No. 97031,
is superseded effective January 1, 1971, and for so long as
this Judgment remains in effect as to any party hereto that was
a party to that action, and as to any party hereto that is a

(b) The Judgment dated June 23, 1965, and entered on April 21, 1966, in that certain action filed in the Superior Court of the State of California in and for the County of San Bernardino entitled and numbered "San Bernardino Valley Water Conservation District, a State Agency, Plaintiff, v. Riverside Water Company, a corporation, et al., Defendants," No. 111614, is superseded effective January 1, 1971, and for so long as this Judgment remains in effect as to any party hereto that was a party to that action, and as to any party hereto that is a successor in interest to any rights determined in that action.

(c) As used in this Paragraph III only, "party" includes any person or entity which stipulates with the parties hereto to accept this Judgment.

DEFINITIONS

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The following ground water basins and tributary areas are situated within the Santa Ana River watershed upstream from Riverside Narrows and are tributary thereto, and their approximate locations and boundaries for purposes of this Judgment are shown upon the map attached hereto as Appendix "A"; San Bernardino Basin Area (the area above Bunker Hill Dike, but excluding certain mountainous regions and the Yucaipa, San Timoteo, Oak Glen and Beaumont Basins); Colton Basin Area, Riverside Basin Area within San Bernardino County, and Riverside Basin Area within Riverside County.

As used herein the following terms shall have the meanings herein set forth:

(a) <u>Bunker Hill Dike</u> - The San Jacinto Fault, located approximately as shown on Appendix "A", and forming the principal downstream boundary of the San Bernardino Basin Area.

(b) <u>Riverside Narrows</u> - That bedrock narrows in the Santa Ana River indicated on Appendix "A".

(c) <u>Extractions</u> - Any form of the verb or noun shall include pumping, diverting, taking or withdrawing water, either surface or subsurface, by any means whatsoever, except extractions for hydroelectric generation to the extent that such flows are returned to the stream, and except for diversions for replenishment.

(d) <u>Natural Precipitation</u> - Precipitation which falls naturally in the Santa Ana River watershed.

(e) <u>Imported Water</u> - Water brought into the Santa Ana River watershed from sources of origin outside such watershed.

(f) <u>Replenishment</u> - Artificial recharge of the ground water body achieved through the spreading or retention of water for the purpose of causing it to percolate and join the underlying ground water body, or injection of water into the ground water resources by means of wells; provided that as used with reference to any obligation of Western to replenish the Riverside Basin Area in Riverside County, the term replenishment shall include any water caused to be delivered by Western for which credit is received by San Bernardino Valley against its obligation under the Orange County Judgment to provide base flow at Riverside Narrows.

(g) <u>Safe Yield</u> - Safe yield is that maximum average annual amount of water that could be extracted from the surface and subsurface water resources of an area over a period of time sufficiently long to represent or approximate long-time mean climatological conditions, with a given areal pattern of extractions, under a particular set of physical conditions or structures as such affect the net recharge to the ground water body, and with a given amount of usable underground storage capacity, without resulting in long-term, progressive lowering of ground water levels or other undesirable result. In determining the operational criteria to avoid such adverse results, consideration shall be given to maintenance of adequate ground water quality, subsurface outflow, costs of pumping, and other relevant factors.

The amount of safe yield is dependent in part upon the amount of water which can be stored in and used from the ground water reservoir over a period of normal water supply under a given set of conditions. Safe yield is thus related to factors which influence or control ground water recharge, and

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to the amount of storage space available to carry over recharge occurring in years of above average supply to years of deficient supply. Recharge, in turn, depends on the available surface water supply and the factors influencing the percolation of that supply to the water table.

Safe yield shall be determined in part through the evaluation of the average net groundwater recharge which would occur if the culture of the safe yield year had existed over a period of normal native supply.

(h) <u>Natural Safe Yield</u> - That portion of the safe yield of the San Bernardino Basin Area which could be derived solely from natural precipitation in the absence of imported water and the return flows therefrom, and without contributions from new conservation. If in the future any natural runoff tributary to the San Bernardino Basin Area is diverted away from that Basin Area so that it is not included in the calculation of natural safe yield, any replacement made thereof by San Bernardino Valley or entities within it from imported water shall be included in such calculation.

(i) <u>New Conservation</u> - Any increase in replenishment from natural precipitation which results from. operation of works and facilities not now in existence, other than those works installed and operations which may be initiated to offset losses caused by increased flood control channelization.

(j) Year - A calendar year from January 1 through December 31. The term "annual" shall refer to the same period of time.

(k) <u>Orange County Judgment</u> - The final judgment in Orange County Water District v. City of Chino, et al., Orange County Superior Court No. 117628, as it may from time to

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(1) <u>Return Flow</u> - That portion of the water applied for use in any particular ground water basin which subsequently reaches the ground water body in that basin.

(m) <u>Five Year Period</u> - a period of five consecutive years.

V

EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA

(a) For Use by Plaintiffs. The average annual extractions from the San Bernardino Basin Area delivered for use in each service area by each Plaintiff for the five year period ending with 1963 are hereby determined to be as set forth in Table B-1 of Appendix "B". The amount for each such Plaintiff delivered for use in each service area as set forth in Table B-1 shall be designated, for purposes of this Judgment, as its "base right." for such service area.

(b) For Use by Others. The total actual average annual extractions from the San Bernardino Basin Area by entities other than Plaintiffs for use within San Bernardino County for the five year period ending with 1963 are assumed to be 165,407 acre feet; the correct figure shall be determined by the Watermaster as herein provided.

VI

SAN BERNARDINO BASIN AREA RIGHTS AND REPLENISHMENT

(a) <u>Determination of Natural Safe Yield</u>. The natural safe yield of the San Bernardino Basin Area shall be computed by the Watermaster, reported to and determined initially by supplemental order of this Court, and thereafter

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shall be subject to the continuing jurisdiction thereof.

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(b) Annual Adjusted Rights of Plaintiffs.

1. The annual "adjusted right" of each Plaintiff to extract water from the San Bernardino Basin Area for use in each service area designated in Table B-1 shall be equal to the sum of the following:

(a) its base right for such service area, until the natural safe yield of the San Bernardino Basin Area is determined, and thereafter its percentage of such natural safe yield determined by the methods used in Table B-2; and (b) an equal percentage for each service area of any new conservation, provided the conditions of the subparagraph 2 below have been met.

2. In order that the annual adjusted right of each such Plaintiff shall include its same respective percentage of any new conservation. such Plaintiff shall pay its proportionate share of the costs thereof. Each Plaintiff shall have the right to participate in new conservation projects, under procedures to be determined by the Watermaster for notice to Plaintiffs of the planned construction of such projects. With respect to any new conservation brought about by Federal installations, the term "costs" as used herein shall refer to any local share required to be paid in connection with such project. Each Plaintiff shall make its payment at times satisfactory to the constructing agency, and new conservation shall be credited to any participating Plaintiff as such conservation is effected.

3. In any five year period, each Plaintiff shall have the right to extract from the San Bernardino Basin Area for use in each service area designated in Table B-1 an amount of water equal to five times its adjusted right for such service area; provided, however, that extractions by each Plaintiff in any year in any service area shall not exceed such Plaintiff's adjusted right for that service area by more than 30 percent.

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4. If the natural safe yield of the San Bernardino Basin Area has not been determined by January 1, 1972, the initial determination thereof shall be retroactive to that date and the rights of the Plaintiffs, and the replenishment obligation of San Bernardino Valley as hereinafter set forth, shall be adjusted as of such date. Any excess extractions by Plaintiffs shall be charged against their respective adjusted rights over the next five year period, or in the alternative, Plaintiffs may pay to San Bernardino Valley the full cost of any replenishment which it has provided as replenishment for such excess extractions. Any obligation upon San Bernardino Valley to provide additional replenishment, by virtue of such retroactive determination of natural safe yield, may also be discharged over such next five year period.

5. Plaintiffs and each of them and their agents and assigns are enjoined from extracting any more water from the San Bernardino Basin Area than is permitted under this Judgment. Changes in place of use of any such water from one service area to another shall not be made without the prior approval of Court upon a finding of compliance with Paragraph XV(b) of this Judgment. So long as San Bernardino Valley is in compliance with all its obligations hereunder, and Plaintiffs are allowed to extract the water provided for in this Judgment, Plaintiffs are further enjoined from bringing any action to limit the water extracted from the San Bernardino Basin Area for use within San Bernardino Valley.

6. Nothing in this Judgment shall prevent future agreements between San Bernardino Valley and Western under which additional extractions may be made from the San Bernardino Basin Area, subject to the availability of imported water not required by San Bernardino Valley, and subject to payment satisfactory to San Bernardino Valley for replenishment required to compensate for such additional extractions.

(c) <u>San Bernardino Valley Replenishment</u>. San Bernardino Valley shall provide imported water for replenishment of the San Bernardino Basin Area at least equal to the amount by which extractions therefrom for use within San Bernardino County exceed during any five year period the sum of: (a) five times the total average annual extractions determined under Paragraph V(b) hereof, adjusted as may be required by the natural safe yield of the San Bernardino Basin Area; and (b) any new conservation to which users within San Bernardino Valley are entitled. Such replenishment shall be

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supplied in the year following any five year period; provided that during the first five year period, San Bernardino Valley shall supply annual amounts on account of its obligations hereunder, and such amounts shall be not less than fifty percent of the gross amount of excess extractions in the previous year.

 Against its replenishment obligation over any five year period San Bernardino Valley shall receive credit for that portion of such excess extractions that returns to the ground water of the San Bernardino Basin Area.

2. San Bernardino Valley shall also receive credit against any future replenishment obligations for all replenishment which it provides in excess of that required herein, and for any amounts which may be extracted without replenishment obligation, which in fact are not extracted.

(d) In this subparagraph (d), "person" and "entity" mean only those persons and entities, and their successors in interest, which have stipulated with the parties to this Judgment within six months after its entry to accept this Judgment.

San Bernardino Valley agrees that the base rights of persons or entities other than Plaintiffs to extract water from the San Bernardino Basin Area for use within San Bernardino Valley will be determined by the average annual quantity extracted by such person or entity during the five year period ending with 1963. After the natural safe yield of the San Bernardino Basin Area is determined hereunder, such

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base rights will be adjusted to such natural safe yield; the adjusted right of each such person or entity shall be that percentage of natural safe yield as determined hereunder from time to time which the unadjusted right of such person or entity is of the amount determined under Paragraph V(b).

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San Bernardino Valley further agrees that in the event the right to extract water of any of such persons or entities in the San Bernardino Basin Area is adjudicated and legal restrictions placed on such extractions which prevent extracting of water by said persons or entities in an amount equal to their base rights, or after natural safe yield is determined, their adjusted rights, San Bernardino Valley will furnish to such persons or entities or recharge the ground water resources in the area of extraction for their benefit with imported water, without direct charge to such persons or entities therefor, so that the base rights, or adjusted rights, as the case may be, may be taken by the person or entity.

Under the provisions hereof relating to furnishing of such water by San Bernardino Valley, such persons or entities shall be entitled to extract in addition to their base rights or adjusted rights any quantities of water spread for repumping in their area of extractions, which has been delivered to them by a mutual water company under base rights or adjusted base rights included by the Watermaster under the provisions of Paragraph V (b) hereof. Extractions must be made within three years of spreading to so qualify.

WATER DISCHARGED ACROSS THE BUNKER HILL DIKE

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San Bernardino Valley shall keep in force an agreement with the City of San Bernardino that the present annual quantity of municipal sewage effluent discharged across Bunker Hill Dike, assumed for all purposes herein to be 16,000 acre feet annually, shall be committed to the discharge of the downstream obligations imposed on San Bernardino Valley under this Judgment or under the Orange County Judgment, and that such effluent shall comply with the requirements of the Santa Ana River Basin Regional Water Quality Control Board in effect December 31, 1968.

VIII

EXTRACTIONS FROM COLTON BASIN AREA AND RIVERSIDE BASIN AREA IN SAN BERNARDINO COUNTY.

(a) The average annual extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County, for use outside San Bernardino Valley, for the five year period ending with 1963 are assumed to be 3,349 acre feet and 20,191 acre feet, respectively; the correct figures shall be determined by the Watermaster as herein provided.

(b) Over any five year period, there may be extracted from each such Basin Area for use outside San Bernardino Valley, without replenishment obligation, an amount equal to five times such annual average for the Basin Area; provided, however, that if extractions in any year exceed such average by more than 20 percent, Western shall provide replenishment in the following year equal to the excess

extractions over such 20 percent peaking allowance.

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To the extent that extractions from each such (c). Basin Area for use outside San Bernardino Valley exceed the amounts specified in the next preceding Paragraph (b), Western shall provide replenishment. Except for any extractions in excess of the 20 percent peaking allowance, such replenishment shall be supplied in the year following any five year period, and shall not be from reclaimed water produced within San Bernardino Valley. Such replenishment shall also be of a quality at least equal to the water extracted from the Basin Area being recharged; provided, that water from the State Water . Project shall be deemed to be of acceptable quality. Replenishment shall be supplied to the Basin Area from which any excess extractions have occurred and in the vicinity of the place of the excess extractions to the extent required to preclude influence on the water level in the three wells below designated; provided that discharge of imported water into the Santa Ana River or Warm Creek from a connection on the State Aqueduct near the confluence thereof, if released in accordance with a schedule approved by the Watermaster to achieve compliance with the objectives of this Judgment, shall satisfy any obligation of Western to provide replenishment in the Colton Basin Area, or that portion of the Riverside Basin Area in San Bernardino County, or the Riverside Basin Area in Riverside County.

(d) Extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County, for use within San Bernardino Valley, shall not be limited. However, except for any required replenishment by Western, San Bernardino Valley shall provide the water to maintain the static water levels in the area, as determined by wells numbered

1S 4W 21 Q3, 1S 4W 29 M1, and 1S 4W 29 Q1 at an average level no lower than that which existed in the Fall season of 1963. Such 1963 average water level is hereby determined to be 822.04 feet above sea level. In future years, the level shall be computed by averaging the lowest static water levels in each of the three wells occurring at or about the same time of the year, provided that no measurements will be used which reflect the undue influence of pumping in nearby wells, or in the three wells, or pumping from the Riverside Basin in Riverside County in excess of that determined pursuant to Paragraph IX(a) hereof.

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(e) Extractions by Plaintiffs from the Colton Basin Area and the portion of the Riverside Basin Area in San Bernardino County may be transferred to the San Bernardino Basin Area if the level specified in Paragraph (d) above is not maintained, but only to the extent necessary to restore such 1963 average water level, provided that Western is not in default in any of its replenishment obligations. San Bernardino Valley shall be required to replenish the San Bernardino Basin Area in an amount equal to any extractions so transferred. San Bernardino Valley shall be relieved of responsibility toward the maintenance of such 1963 average water level to the extent that Plaintiffs have physical facilities available to accommodate such transfers of extractions, and insofar as such transfers can be legally accomplished.

(f) The Colton Basin Area and the portion of the Riverside Basin Area in San Bernardino County constitute a major source of water supply for lands and inhabitants in both San Bernardino Valley and Western, and the parties hereto have a mutual interest in the maintenance of water quality in these Basin Areas and in the preservation of such supply. If

the water quality in such Areas, as monitored by the City of Riverside wells along the river, falls below the Objectives set therefor by the Santa Ana River Basin Regional Water Quality Control Board, the Court shall have jurisdiction to modify the obligations of San Bernardino Valley to include, in addition to its obligation to maintain the average 1963 water level, reasonable provisions for the maintenance of such water quality.

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The primary objectives of Paragraph VIII and (g)related provisions are to allow maximum flexibility to San Bernardino Valley in the operation of a coordinated replenishment and management program, both above and below Bunker Hill Dike; to protect San Bernardino Valley against increased extractions in the area between Bunker Hill Dike and Riverside Narrows, which without adequate provision for replenishment might adversely affect base flow at Riverside Narrows, for which it is responsible under the Orange County Judgment; and to protect the area as a major source of ground water supply available to satisfy the historic extractions therefrom for use within Western, without regard to the method of operation which may be adopted by San Bernardino Valley for the San Bernardino Basin Area, and without regard to the effect of such operation upon the historic supply to the area below Bunker Hill Dike.

If these provisions should prove either inequitable or unworkable, the Court upon the application of any party hereto shall retain jurisdiction to modify this Judgment so as to regulate the area between Bunker Hill Dike and Riverside Narrows on a safe yield basis; provided that under such method of operation, (1) base rights shall be determined on the basis of total average annual extractions for use within San Bernardino Valley and Western, respectively, for the five year period ending

with 1963; (2) such base rights for use in both Districts shall be subject to whatever adjustment may be required by the safe yield of the area, and in the aggregate shall not be exceeded unless replenishment therefor is provided; (3) in calculating safe yield, the outflow from the area at Riverside Narrows shall be determined insofar as practical by the base flow obligations imposed on San Bernardino Valley under the Orange County Judgment; and (4) San Bernardino Valley shall be required to provide replenishment for any deficiency between the actual outflow and the outflow obligation across Bunker Hill Dike as established by safe yield analysis using the base period of 1934 through 1960.

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IX

EXTRACTIONS FROM THE PORTION OF RIVERSIDE BASIN AREA IN RIVERSIDE COUNTY WHICH IS TRIBUTARY TO RIVERSIDE NARROWS.

(a) The average annual extractions from the portion of the Riverside Basin Area in Riverside County which is tributary to Riverside Narrows, for use in Riverside County, for the five year period ending with 1963 are assumed to be 30,044 acre feet; the correct figures shall be determined by the Watermaster as herein provided.

(b) Over any five year period, there may be extracted from such Basin Area, without replenishment obligation, an amount equal to five times such annual average for the Basin Area; provided, however, that if extractions in any year exceed such average by more than 20 percent, Western shall provide replenishment in the following year equal to the excess extractions over such 20 percent peaking allowance.

(c) To the extent that extractions from such Basin Area exceed the amounts specified in the next preceding

Paragraph (b), Western shall provide replenishment. Except for any extractions in excess of the 20 percent peaking allowance, such replenishment shall be supplied in the year following any five year period, and shall be provided at or above Riverside Narrows.

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(d) Western shall also provide such replenishment to offset any reduction in return flow now contributing to the base flow at Riverside Narrows, which reduction in return flow results from the conversion of agricultural uses of water within Western to domestic or other uses connected to sewage or waste disposal systems, the effluent from which is not tributary to the rising water at Riverside Narrows.

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REPLENISHMENT TO OFFSET NEW EXPORTS OF WATER TO AREAS NOT TRIBUTARY TO RIVERSIDE NARRONS.

Certain average annual amounts of water extracted from the San Bernardino Basin Area and the area downstream therefrom to Riverside Narrows during the five year period ending in 1963 have been exported for use outside of the area tributary to Riverside Narrows and are assumed to be 50,667 acre feet annually as set forth in Table C-1 of Appendix "C"; the correct amount shall be determined by the Watermaster as herein provided. Western shall be obligated to provide replenishment at or above Riverside Narrows for any increase over such exports by Western or entities within it from such areas for use within areas not tributary to Riverside Narrows. San Bernardino Valley shall be obligated to provide replenishment for any increase over the exports from San Bernardino Valley for use in any area not within Western nor tributary to Riverside Narrows as set forth in Table C-2 of

Appendix. "C", such amounts being subject to correction by the Watermaster, or for any exports from the San Bernardino Basin Area for use in the Yucaipa, San Timotco, Oak Glen and Beaumont Basins.

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XI

REPLENISHMENT CREDITS AND ADJUSTMENT FOR QUALITY

(a) All replenishment provided by Western under Paragraph IX and all credits received against such replenishment obligation shall be subject to the same adjustments for water quality applicable to base flow at Riverside Narrows, as set forth in the Orange County Judgment.

(b) Western shall receive credit against its replenishment obligations incurred under this Judgment for the following:

1. As against its replenishment obligation under Paragraph VIII, any return flow to the Colton Basin Area or the portion of the Riverside Basin Area within San Bernardino County, respectively, resulting from any excess extractions therefrom; and as against its replenishment obligation under Paragraph IX, any return flow to the portion of the Riverside Basin Area in Riverside County, which contributes to the base flow at Riverside Narrows, resulting from any excess extractions therefrom, or from the Riverside Basin Area in San Bernardino County, or from the Colton Basin Area.

Subject to adjustment under
 Paragraph (a) hereof, any increase over the present
 amounts of sewage effluent discharged from

treatment plants within Riverside County which are tributary to Riverside Narrows, and which results from the use of imported water.

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3. Any replenishment which may be provided in excess of that required; any amounts which hereunder are allowed to be extracted from the Colton and Riverside Basin Areas without replenishment obligation by Western, and which in fact are not extracted; any storm flows conserved between Bunker Hill Dike and Riverside Narrows by works financed solely by Western, or entities within it, which would not otherwise contribute to base flow at Riverside Narrows; and any return flow from imported water used in Riverside County which contributes to base flow at Riverside Narrows; provided, however, that such use of the underground storage capacity in each of the above situations does not adversely affect San Bernardino.Valley in the discharge of its obligations at Riverside Narrows under the Orange County Judgment, nor interfere with the accomplishment by San Bernardino Valley of the primary objectives of Paragraph VIII, as stated in Subdivision (g).

(c) The replenishment obligations of Western under this Judgment shall not apply during such times as amounts of base flow at Riverside Narrows and the amounts of water stored in the ground water resources below Bunker Hill Dike and tributary to the maintenance of such flow are found by Order of the Court to be sufficient to satisfy any obligation which San Bernardino Valley may have under this Judgment, or under the

Orange County Judgment, and if the Court further finds by Order that during such times any such increase in pumping, changes in use or exports would not adversely affect San Bernardino Valley in the future.

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(d) The replenishment obligations of San Bernardino Valley under Paragraph X of this Judgment for increase in exports from the Colton and Riverside Basin Areas within San Bernardino Valley below the Bunker Hill Dike shall not apply during such times as the amounts of water in the ground water resources of such area are found by Order of the Court to be sufficient to satisfy the obligations which San Bernardino Valley may have to Plaintiffs under this Judgment, and if the Court further finds by Order that during such times any such increases in exports would not adversely affect Plaintiffs in the future.

XII

CONVEYANCE OF WATER BY SAN BERNARDINO VALLEY TO RIVERSIDE NARROWS.

If San Bernardino Valley determines that it will convey reclaimed sewage effluent, or other water, to or near Riverside Narrows, to meet its obligations under this or the Orange County Judgment, the City of Riverside shall make available to San Bernardino Valley for that purpose any unused capacity in the former Riverside Water Company canal, and the Washington and Monroe Street storm drains, without cost except for any alterations or capital improvements which may be required, or any additional maintenance and operation costs which may result. The use of those facilities shall be subject to the requirements of the Santa Ana River Basin Regional Water Quality Control Board and of the State Health Department, and compliance

therewith shall be San Bernardino Valley's responsibility.

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XIII

WATERMASTER

(a) This Judgment and the instructions and subsequent orders of this Court shall be administered and enforced by a Watermaster. The parties hereto shall make such measurements and furnish such information as the Watermaster may reasonably require, and the Watermaster may verify such measurements and information and obtain additional measurements and information as the Watermaster may deem appropriate.

(b) The Watermaster shall consist of a committee of two persons. San Bernardino Valley and Western shall each have the right to nominate one of such persons. Each such nomination shall be made in writing, served upon the other parties to this Judgment, and filed in Court. Such person shall be appointed by and serve at the pleasure of and until further order of this Court. If either Western or San Bernardino Valley shall at any time nominate a substitute appointee in place of the last appointee to represent it, such appointee shall be appointed by the Court in place of such last appointee.

(c) Appendix "D" to this Judgment contains some of the data which have been used in preparation of this Judgment, and shall be utilized by the Watermaster in connection with any questions of interpretation.

(d) Each and every finding and determination of the Watermaster shall be made in writing certified to be by unanimous action of both members of the Watermaster committee. In the event of failure or inability of such Watermaster Committee to reach agreement, the Watermaster committee may determine to submit the dispute to a third person to be selected

by them, or if they are unable to agree on a selection, to be selected by the Court, in which case the decision of the third person shall be binding on the parties; otherwise the fact, issue, or determination in question shall forthwith be certified to this Court by the Watermaster, and after due notice to the parties and opportunity for hearing, said matter shall be determined by order of this Court, which may refer the matter for prior recommendation to the State Water Resources Control Board. Such order of the Court shall be a determination by the Watermaster within the meaning of this Judgment.

(e) The Watermaster shall report to the Court and to each party hereto in writing not more than seven (7) months after the end of each year, or within such other time as the Court may fix, on each determination made by it pursuant to this Judgment, and such other items as the parties may mutually request or the Watermaster may deem to be appropriate. All of the books and records of the Watermaster which are used in the preparation of, or are relevant to, such reported data, determinations and reports shall be open to inspection by the parties hereto. At the request of any party this Court will establish a procedure for the filing and hearing of objections to the Watermaster's report.

(f) The fees, compensation and expenses of each person on the Watermaster shall be borne by the District which nominated such person. All other Watermaster service costs and expenses shall be borne by San Bernardino Valley and Western equally.

(g) The Watermaster shall initially compute and report to the Court the natural safe yield of the San Bernardino Basin Area, said computation to be based upon the cultural

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conditions equivalent to those existing during the five calendar year period ending with 1963.

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(h) The Watermaster shall as soon as practical determine the correct figures for Paragraphs V(b), VI(b)1, VIII(a), IX(a) and X, as the basis for an appropriate supplemental order of this Court.

VIX

CONTINUING JURISDICTION OF THE COURT

(a) The Court hereby reserves continuing jurisdiction of the subject matter and parties to this Judgment, and upon application of any party, or upon its own motion, may review and redetermine, among other things, the following matters and any matters incident thereto:

 The hydrologic condition of any one or all of the separate basins described in this Judgment in order to determine from time to time the safe yield of the San Bernardino Basin Area.

2. The desirability of appointing a different Watermaster or a permanent neutral member of the Watermaster, or of changing or more clearly defining the duties of the Watermaster.

3. The desirability of providing for increases or decreases in the extraction of any particular party because of emergency requirements or in order that such party may secure its proportionate share of its rights as determined herein.

4. The adjusted rights of the Plaintiffs as required to comply with the provisions hereof with respect to changes in the natural safe yield of the San Bernardino Basin

Area. If such changes occur, the Court shall adjudge that the adjusted rights and replenishment obligations of each party shall be changed proportionately to the respective base rights.

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5. Conforming the obligations of San Bernardino Valley under this Judgment to the terms of any new judgment hereafter entered adjudicating the water rights within San Bernardino Valley, if inconsistencies of the two judgments impose hardship on San Bernardino Valley.

6. Adjusting the figures in Paragraphs V(b),VI(b) 1, VIII(a) IX(a), and X, to conform to determinationby the Watermaster.

7. Credit allowed for return flow in the San Bernardino Basin Area if water levels therein drop to the point of causing undue hardship upon any party.

8. Other matters not herein specifically set forth which might occur in the future and which would be of benefit to the parties in the utilization of the surface and ground water supply described in this Judgment, and not inconsistent with the respective rights of the parties as herein established and determined.

(b) Any party may apply to the Court under its continuing jurisdiction for any appropriate modification of this Judgment if its presently available sources of imported water are exhausted and it is unable to obtain additional supplies of imported water at a reasonable cost, or if there is any substantial delay in the delivery of imported water through the State Water Project.

SAVING CLAUSES

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(a) Nothing in this Judgment precludes San Bernardino Valley, Western, or any other party from exercising such rights as it may have or obtain under law to spread, store underground and recapture imported water, provided that any such use of the underground storage capacity of the San Bernardino Basin Area by Western or any entity within it shall not interfere with any replenishment program of the Basin Area.

(b) Changes in the place and kind of water use, and in the transfer of rights to the use of water, may be made in the absence of injury to others or prejudice to the obligations of either San Bernardino Valley or Western under Judgment or the Orange County Judgment.

(c) If any Plaintiff shall desire to transfer all or any of its water rights to extract water within San Bernardino Valley to a person, firm, or corporation, public or private, who or which is not then bound by this Judgment, such Plaintiff shall as a condition to being discharged as hereinafter provided cause such transferee to appear in this action and file a valid and effective express assumption of the obligations imposed upon such Plaintiff under this Judgment as to such transferred water rights. Such appearance and assumption of obligation shall include the filing of a designation of the address to which shall be mailed all notices, requests, objections, reports and other papers permitted or required by the terms of this Judgment.

If any Plaintiff shall have transferred all of its said water rights and each transferee not theretofore bound by this Judgment as a Plaintiff shall have appeared in this action

and filed a valid and effective express assumption of the obligations imposed upon such Plaintiff under this Judgment as to such transferred water rights, such transferring Plaintiff shall thereupon be discharged from all obligations hereunder. If any Plaintiff shall cease to own any rights in and to the water supply declared herein and shall have caused the appearance and assumption provided for in the third preceding sentence with respect to each voluntary transfer, then upon application to this Court and after notice and hearing such Plaintiff shall thereupon be relieved and discharged from all further obligations hereunder. Any such discharge of any Plaintiff hereunder shall not impair the aggregate rights of defendant San Bernardino Valley or the responsibility hereunder of the remaining Plaintiffs or any of the successors.

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(d) Non-use of any right to take water as provided herein shall not result in any loss of the right. San Bernardino Valley does not guarantee any of the rights set out herein for Western and the other Plaintiffs as against the claims of third parties not bound hereby. If Western or the other Plaintiffs herein should be prevented by acts of third parties within San Bernardino County from extracting the amounts of water allowed them by this Judgment, they shall have the right to apply to this Court for any appropriate relief, including vacation of this Judgment, in which latter case all parties shall be restored to their status prior to this Judgment insofar as possible.

(e) Any replenishment obligation imposed hereunder on San Bernardino Valley may be deferred until imported water first is available to San Bernardino Valley under its contract with the California Department of Water Resources and the

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obligation so accumulated may be discharged in five approximately equal annual installments thereafter.

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(f) No agreement has been reached concerning the method by which the cost of providing replenishment will be financed, and no provision of this Judgment, nor its failure to contain any provision, shall be construed to reflect any agreement relating to the taxation or assessment of extractions.

XVI

EFFECTIVE DATE

The provisions of Paragraphs III and V to XII of this Judgment shall be in effect from and after January 1, 1971; the remaining provisions are in effect immediately.

XVII

COSTS

No party shall recover its costs herein as against any other party.

THE CLERK WILL ENTER THIS JUDGMENT FORTHWITH.

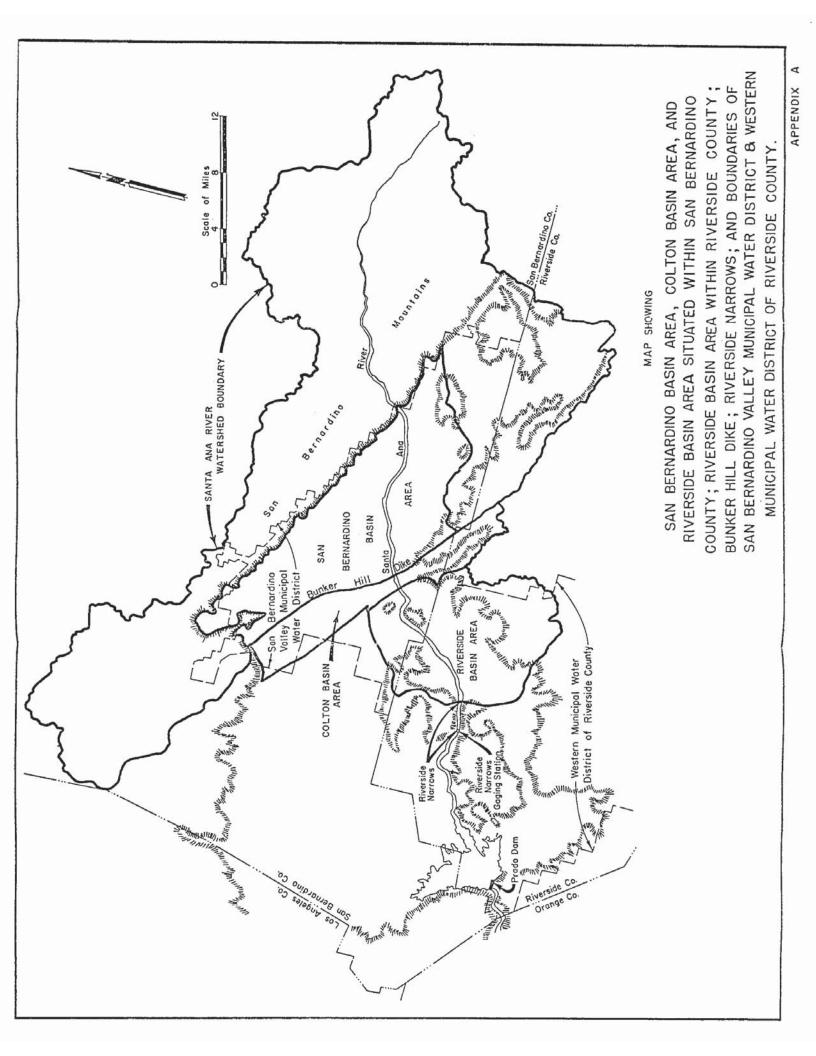
DATED: april 17, 1969

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APR 1 71969

RIOR COURT

JUDGMENT BOOK 124 PG



APPENDIX B TABLE B-1

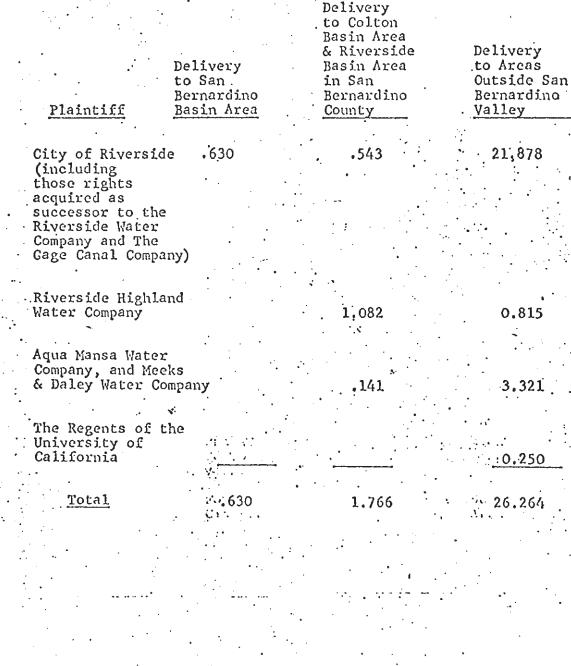
EXTRACTIONS BY PLAINTIFFS FROM THE SAN BERNARDING FASIN AREA FOR AVERAGE OF 5-YEAR PERIOD ENDING WITH 1963

(All Values in Acre Feet) Classified According to Service Area

	Total Extractions in San Bernardino Basin Area	Delivery to San Bernardino Basin Area	belivery to Colton Basin Area & Riverside Basin Area in San Bernardino <u>County</u>	Delivery to Areas Outside San Eernardino Valley
City of Riverside	53,448	1462	1260	50,726
(including those rights acquired as successor to the Riverside Water Company and The Gage Canal Compan	ıy)			
Riverside High- Land Water Compar	ny 4,399	0	2509	1,890
Agua Mansa Water Company, and Meek & Daley Water Company	<s 8,026</s 	0	326	7,700
The Regents of the University of California	581	0	0	581
Total	66,454	1,462	4,095	60,897

APPENDIX B TABLE B-2

PLAINTIFFS' PERCENTAGES OF BASE RIGHT TO TOFAL PRODUCTION FROM SAN BERNARDINO VALLEY BASIN AREA, 231,861 Acre Feet Annually, For 5-Year Average Ending With 1963 Classified According to Service Area



in the second second

APPENDIX C TABLE C-1

EXTRACTIONS FOR USE WITHIN WESTERN FROM THE SAN BERNARDINO BASIN AREA, COLTON BASIN AREA, AND THE RIVERSIDE PASIN AREA FOR USE ON LANDS THAT ARE NOT TRUBUTARY TO THE RIVERSIDE NARROWS FOR AVERAGE OF FIVE-YEAR PERIOD ENDING IN 1963

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APPEIDIX C 5400 SUMAT

EXTRACTIONS FOR USE MICHEL SAN BERMARDING COUNTY

s	BERMARDING MASIN AMEN AND COLTON BASIN AREA	
	LOR CON CULTURES DOM SELECTION TO	-
	MIVENSIES NAMEDIS FOR AVERAGE OF	
	WING-YEAR PERIOD ENDING MINE 1953	

(ALL VALUES IN ACRE FEET)

<u>Entity</u>	San Bernardino- Basin Area	Colton - Basin <u>Area</u> -	<u>Potal</u>
Fortana Union Water Co.	14,272	• 365	14,637
West San Bernardino County Water District	2,961	947	3,903
City of Rialto		•	. 700
TOTAL			19,245

TOTAL

EXTRACTIONS FROM SAN BERNARDINO BASIN AREA FOR THE AVERAGE OF FIVE-YEAR PERIOD ENDING WITH 1963 FOR USE WITHIN SAN BERNARDINO COUNTY

(ALL VALUES IN ACRE FEET)

	•
Basin	Five Year Ave. 1959-63
Beaumont	10,064
Big Bear	1,171
Borea Canyon	. 91
Bunker Hill	181,600
City Creek	337
·Cook Canyon	197
Devil Canyon	3,326
Devil Creek	. 42
Lower Cajon	2,090
Little San Creek	· ¹ 15 .
Lytle	. 29,364
Mill Creek	11,084
Oak Glen	935
Plunge Creck	1,265
Santa Ana	1,790
Strawberry Creek	291
San Timoteo	2,272
Waterman Canyon	367
Yucaipa	13,837
Upper Basin Total	260,139
Less: Beaumont	
. Oak Glen	•
San Timoteo	27,107
Yucaipa	
Subtotal	233,032
Less Big Bear	_1,171
Subtotal	231,861
Less extractions for use outside San Bernardino County	
County	60,897
Extractions from San Bernardi for use in San Bernardino	uno
County	• 170,964
· · · · · · · · · · · · · · · · · · ·	

EXTRACTIONS FROM COLTON BASIN AREA FOR AVERAGE OF FIVE-YEAR PERIOD ENDING WITH 1963 BY SAN BERNARDING AND RIVERSIDE COUNTY ENTITIES FOR USE WITHIN EACH COUNTY

(VALUES IN ACRE FEET)

•	Extractor	Place o San Bernardino Co	f Use . Riverside Co.	Total
•	San Bernardino County Entities	. 8,480	0	8,480
	Riverside County Entities	147		3,496
•	TOTAL EXTRACTIONS	8,627	3,349	11,976

EXTRACTIONS FROM RIVERSIDE BASIN AREA IN SAM BERNARDINO COUNTY FOR AVERAGE FIVE-YEAR PERIOD ENDING WITH 1963 BY SAN BERNARDING AND RIVERSIDE COUNTY ENTITIES FOR USE WITHIN EACH COUNTY

(VALUES IN ACRE FEET)

Extractor	<u>Place o</u> San Bernardino Co		Total
San Bernardino County Entities	9,582	· 0	9,582
Riverside County Entities	3,929	20,191	. 24,120
TOTAL EXTRACTIONS	13,511	20,191	33,702

EXTRACTIONS FROM SAN BERNARDINO BASIN AREA, COLTON BASIN AREA AND RIVERSIDE BASIN AREA USED WITHIN RIVERSIDE COUNTY FOR THE AVERAGE FIVE-YEAR PERIOD ENDIEG WITH 1963

(ALL VALUES IN ACRE FEET)

Basin	•	• •		Average
San Bernardino Basin	Area		•	60,897
Colton Basin Area	· · ·	•	•	3,349
Riverside Basin Area	in San Bernardino	County	• •	20,191
Riverside Basin Area	in Riverside Coun	ity	•	30,044
TOTAL			•	114,481

IRRIGATED ACREAGE IN RIVERSIDE BASIN AREA IN RIVERSIDE COUNTY PRESENTLY TRIBUTARY TO RIVERSIDE NARROWS WHICH UPON CONVERSION TO URBAN USES REQUIRING SEWAGE DISPOSAL THROUGH THE RIVERSIDE TREATEENT PLANT WILL BE DISCHARGED TO THE RIVER BELOW RIVEVSIDE NARROWS

•	Entity Serving Acreage	Acres
•	Gage Canal	1,752
. •	Alta Mesa Water Co.	65
	East Riverside Water Co.	926
	Riverside Highland Water Company	<u>1,173</u>
•	TOTAL	3,916

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APPENDIX J

JCSD WATER SUPPLY OUTLOOK

June 7, 2016

Jurupa Community Services District Water Supply Outlook 06-07-2016

Zone				Original Design (gpm)	Modified Design (gpm)	Current Production Rate (gpm)	Percent of Production	Operational (Yes/No)	Operating Potential (gpm)	Status (Idle/Run)	Current Operations (gpm)	Generator Power (Yes/No)	Generator Production Rate
		Well No 8	dia	1,500	750	715	2%	No	-	Idle	(39)	Yes	715
	R	Well No 11**		1,200	1,100	530	2%	Yes	530	Idle	-	No	- 10
	Т	Well No 12**	dia.	1,850	1,100	1,015	3%	Yes	1,015	Idle	-	Yes	1,015
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	幽	2,000	2,000	2,090	6%	Yes	2,090	Idle	_	Yes	2,090
	х	Well No 15		800	550	640	2%	Yes	640	Idle	-	No	-,
870	Р	Well No 16**	幽	2,000	1,875	2,000	6%	Yes	2,000	Run	2,000	Yes	2,000
		Well No 22	幽	3,800	3,500	3,365	10%	Yes	3,365	Idle	-	Yes	3,365
		Sub Total		13,150	10,875	10,355	30%		9,640		2,000		9,185
		Well No 23	幽	3,500	3,500	3,460	10%	Yes	3,460	Idle	H 1	Yes	3,460
		Well No 27	幽	3,500	3,500	3,515	10%	Yes	3,515	Run	3,515	Yes	3,515
		Well No 28	幽	4,000	3,500	3,635	10%	Yes	3,635	Idle	-	Yes	3,635
		Total		24,150	21,375	20,965	60%		20,250		5,515		19,795
		Well No 6	幽	2,000	1,800	1,780	<mark>5%</mark>	Yes	1,780	Idle	<u>2</u>	Yes	1,780
		Well No 13		2,800	2,800	2,475	7%	Yes	2,475	Run	2,475	No	-
	I X	Well No 17		3,700	3,700	3,115	9%	Yes	3,115	Run	3,115	No	-
980	P	Well No 18**		1,600	1,045	1,065	3%	Yes	1,065	Idle		No	-
		Well No 20**		1,000	845	920	3%	No	-	Idle	-	No	· -
		Well No 24		450	400	200	1%	Yes	200	Idle	-	No	-
		Well No 25	幽	3,500	3,450	3,350	10%	Yes	3,350	Run	3,350	Yes	3,350
		Total		15,050	14,040	12,905	37%		11,985		8,940		5,130
1110		Well No 19		1,100	1,130	1,060	3%	Yes	1,060	Run	1,060	No	-
		Total		1,100	1,130	1,060	3%		1,060		1,060		-
		Grand Total		40,300	36,545	34,930	100%	95%	33,295	44%	15,515	71%	24,925
* Thro	ttled					Round to nearest 5 - weekly average							

-weekly average Non-Potable (Irrigation)

		Original Design	Modified Design	Current Production Rate	Percent of Production	Operational	Operating Potential	Status	Current Operations
Basin		(gpm)	(gpm)	(gpm)		(Yes/No)	(gpm)	(Idle/Run)	(•) (1)
Riverside	Well No 5		500	370	19%	Yes	370	Idle	-
Triverside	Well No 21**		1,100	705	36%	Yes	705	Run	705
	Total	-	1,600	1,075	54%		1,075		705
	HS Well**		900	240	12%	Yes	240	Run	240
Chino	Well No 40**		600	255	13%	Yes	255	Run	255
Chino	Well No 41**		600	170	9%	Yes	170	Run	170
	Well No 42**		400	130	7%	Yes	130	Run	130
	Total	-	2,500	795	40%		795		795
Temescal	Van Leeuwen**		800	105	5%	Yes	105	Idle	-
Temescar	Total	-	800	105	5%		105		-
	Grand Total	-	4,900	1,975	100%	100%	1,975	76%	1,500
				Round to nearest 5	_				

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	R	ihi	h		IV

				Rubiuou	n				
	Hunter Street	800	800	450	20%	Yes	450	Idle	-
1100	Jewel Boosters**	5,400	5,400	1775	80%	Yes	1,775	Idle Run 80%	1,775
	Total	6,200	6,200	2225	100%		2,225		1,775
	Grand Total	6,200	6,200	2225	100%	100%	2,225	80%	1,775
** VFD	🏰 = Generator bac	kup power		ind to nearest 5 reekly average				-	

Well No. 20 - RFQ for Chemical Treatment Rehab. sent out 02/08/16, due back 02/24/16. Quotes were received and a request was submitted for 03/09/16 Water/Conservation Committee - reccommending Best Drilling and Pump, Inc. in the not to exceed amount of \$71,824.00 to perform work. Committee approved to forward to Board on 03/28/16 for final approval. Best started work on 04/11/16. Well 20 start up testing began on 5/11/16, before returning to the system. Well 8 was taken out of service on 03/15/16 to replace discharge pipe. Parks Dept. switched from the Van Leeuwen Well connection to potable water on 05/04/16.

APPENDIX K

CASGEM PRIORITIES SPREADSHEET

							Data Component Ranking Value										Overall Ranking					
CASGEM Groundwater Basin Prioritization Results Sorted by Basin Name					Growth			*	creage	Grou	ndwater Reliance				Overall Basin	Overall	II Impact Comments	Other Information Comments				
Basin count	Basin Number	Basin Name	Sub-Basin Name	Hydrologic Region	DWR Region Office		Area Sq. Mile	2010 Populati on	Population	opulation	^o ublic Supply Nells	rotal Wells	Irrigated Ac	GW Use **	Percent of Total Supply **	GW Reliance Total	mpacts	Other Information	Ranking Score ***	Basin Priority	input connents	
218	8-2.01	UPPER SANTA ANA VALLEY	CHINO	South Coast	SRO	154,693		_	4	2	4	2.25	3	5	3	4	3	1	23.3	High	include subsidence, historic overdraft,	Basin is adjudicated. Pub Com, program of controlled overdraft of 400,000 AF from the Chino Basin though 2030 to control the outflow of poor-quality rising GW
221	8-2.03	UPPER SANTA ANA VALLEY	RIVERSIDE- ARLINGTO N	South Coast	SRO	58,903	92.0	336,884	4	2	4	3	2	5	4	4.5	5	0	24.5	High	Water quality degradation issues known in several public supply wells.	

APPENDIX L

JCSD CONSUMER CONFIDENCE REPORT

2014

Jurupa Community Services District (JCSD) tests the quality of drinking water for many constituents as required by State and Federal Regulations.

This report shows the results of our monitoring for the period of January 1, 2014 -December 31, 2014.

Last year, as in years past, your metered tap water met all U.S. Environmental Protection Agency (USEPA) and State Drinking Water Health Standards.

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien.

All water delivered in 2014 was produced from wells.

- JCSD wells are located near Interstate 15 and Highway 60
- Chino I Desalter wells are located in Chino near Chino Airport
- Rubidoux wells are located in Rubidoux
- Roger Teagarden Ion Exchange Treatment Plant is located near Interstate 15 and Highway 60
- Wells 17/18 Ion Exchange Treatment Facility located near Interstate 15 and Highway 60
- Chino II Desalter wells are located near Interstate 15 and Bellegrave Avenue

The sources of drinking water (both tap water and bottled water) include rivers, lakes streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) Division of Drinking Water prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5 and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board requires all water systems to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, are more than a year old.

Terms Used In This Report

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standard (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Regulatory Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in a drinking water.

Additional General Information On Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/ AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Nitrate in drinking water at levels above 45 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin (methemoglobinemia or Blue-Baby Syndrome). Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant or you are pregnant, you should ask advice from your health care provider.

If lead in drinking water is present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. JCSD is responsible for providing high guality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at: http://www.epa.gov/safewater/lead.

State Water Resources Control Board (State Board) Division of Drinking Water Fluoridation website link:

http://www.waterboards.ca.gov/drinking water/certlic/drinkingwater/Fluoridation.shtml



include:

Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production and can also come from gas stations, urban storm-water runoff, agricultural application and septic systems.

Radioactive contaminants, that can be naturally occurring or be the result of oil and gas production and mining activities.

mg/L	milligrams per liter = parts per million (ppm)	NTU	Nephelometric Turbidity Units
	(1 ppm is equivalent to 1 second in 11.5 days)	pCi/L	pico Curies per liter (a measure of radiation)
NA	Not Applicable	μg/L	micrograms per liter = parts per billion (ppb)
ND	Not Detectable at testing limit	µS/cm	microsiemens per centimeter, a unit of conductance
ng/L	nanograms per liter = parts per trillion (ppt)		$(1 \ \mu S/cm = 1 \ \mu mho/cm)$



2014 Cons umer 0 onfidence Re port

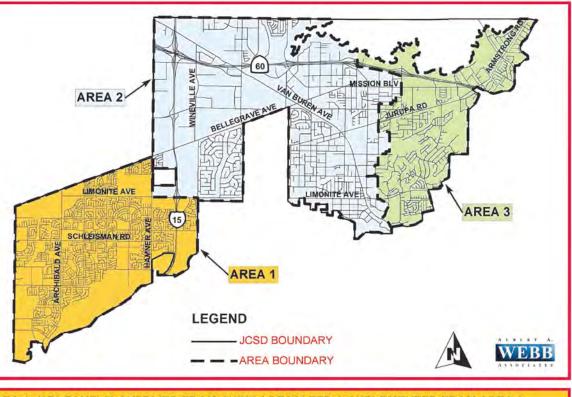
NFORMATION ABOUT YOUR DRINKING WATER

JURUPA COMMUNITY SERVICES DISTRICT - (951) 685-7434 - WWW.JCSD.US

Contaminants that may be present in source water

Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

Inorganic contaminants, such as salts and metals that can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.



AREA 1- (870 ZONE) IS SUPPLIED FROM CHINO I DESALTER & SUPLEMENTED FROM AREA 2

AREA 2- IS SUPPLIED FROM ROGER TEAGARDEN IXP, 17/18 IXP, CHINO II DESALTER, & ADDITIONAL WELLS IN THE 870, 980 & 1110 ZONES

AREA 3 - (900, 1100, 1200, 1350 ZONES) IS SUPPLIED PRIMARILY FROM AREA 2, OCCASIONALLY FROM AREA 1 DURING LOW WATER DEMAND PERIODS & SUPPLEMENTED FROM RUBIDOUX COMMUNITY SERVICES DISTRICT

Abbreviations

Jurupa Community Services District Water Quality Report 2014

		1110 Zone (Chino II)		ino II) 980 Zone			870 Zone (IXP)		870 Zone (Chino I)		x Inter-Tie	Drinking Water Standard Information					
Microbiological Constitue	Microbiological Constituents		Microbiological Constituents		No. of Months in Violation	Highest % of Monthly Positives	No. of Months in Violation	Highest % of Monthly Positives	No. of Months in Violation	Highest % of Monthly Positives	No. of Months in Violation	Highest % of Monthly Positives	No. of Months in Violation	м	CL	PHG (MCLG)	Typical Source of Bacteria
Total Coliform Bacteria		0%	0	0%	0	0%	Û	0%	0	2.5%	0	More than 5% of mont	thly samples are	(0)	Naturally present in the environment		
Fecal Coliform or E. coli (Total Coliform Rule)			0	0	0	O	U	0	0	0	0	positive A routine sample and total coliform positive,	and one of these is	(0)	Human and animal fecal waste		
Table 2 - Sampling Results Showir	na Detection o	f Lead and	Copper	-								also fecal coliform or l	E. coli positive				
			90th %		90th %	No. of	90th %	and a	90th %	10.00	90th %	Number of Sites					
Lead and Copper	Reporting Unit	No. of Samples	Level Detected	No. of Samples	Level Detected	Samples (Collected in 2013)	Level Detected	No. of Samples	Level Detected	No. of Samples	Level Detected	Exceeding (AL)	Action Level (AL)	PHG (MCLG)	Typical Source of Contamination		
Lead (Pb)	µg/L	NA	NA.	NA	NA	55	ND	NA	NA	NA	NA	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers: erosion of na deposits		
Copper (Cu)	mg/L	NA	NA	NA	NA	55	0.21	NA	NA	NA	NA	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		
Table 3 - Sampling Results Showir	ng Detection o	f Primary C	onstituents														
Constituents	Reporting Unit	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	MO [MR		PHG (MCLG) [MRDLG]	Major Sources in Drinking Water		
Chromium (Total Cr)	µg/L	2.6	ND - 4.2	3.5	2.4 - 4.6	2.0	1.8 - 2.2	ND	ND	1.6	ND - 6.4	5	0	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits		
⁽¹⁾ Hexavalent Chromium	µg/L	2,3	ND - 4.1	4.0	2.4 - 5.1	1.9	1.2 - 2.7	0.34	ND - 0.53	1.3	ND - 4.8	(1)	10	0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory pro and textile manufacturing facilities; erosion of natural deposit		
Fluoride (F)	mg/L	ND	ND - 0.2	0.2	0.1 - 0.2	0.1	0.1	0.1	ND - 0.1	0.4	0.2 - 0.5	2.	.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer & aluminum fac		
Nitrate (as NO ₃)	mg/L	23	14 - 26	(2) 28	⁽²⁾ 24 - 35	(2) 27	(2) 20 - 34	16	15 - 16	26	7 - 33	4	5	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Gross Alpha Particle Activity	pCi/L	ND	ND	NA	NA	ND	ND - 4.0	ND	ND	4.7	3.2 - 5.8		5	(0)	Erosion of natural deposits		
Uranium	pCi/L	NA	NA.	NA	NA	NA	NA (3) : : : :	NA	NA	4.6	3.4 - 5.3	2	0	0.43	Erosion of natural deposits		
Perchlorate 1, 1- Dichloroethylene (1, 1 DCE)	μg/L μg/L	ND	ND ND	ND ND	ND ND	ND ND	⁽³⁾ ND ⁽⁴⁾ ND - 0.57	ND ND	ND ND	ND	⁽³⁾ ND - 5.4				Discharge from aerospace and other industrial facilities Discharge from industrial chemical factories		
Tetrachloroethylene (PCE)	µg/L	ND	ND	ND	⁽⁵⁾ ND - 0.50	ND	ND - 0.5	ND	ND	NA	NA		6 10 5 0.06		Discharge from factories, dry cleaners, and auto shops (Metal degreaser)		
1. 1- Dichloroethane	µg/L	ND	ND	0.040	0.035 - 0.095	ND	ND - 0.030	ND	ND	ND	ND		5		Some People who use water containing 1,1dichloroethane in excess of the MCL over many years may experien		
Total THM's (Trihalomethanes)	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	30	5.9.24	80		3 NA	nervous system or respiratory problems. By-product of drinking water disinfection		
Haloacetic Acids (HAA5)	μg/L μg/L	14	11 - 17	2.7	2.2 - 3.1	5.0	4.8 - 5.2	ND	ND	7.8	ND - 9.6	60 NA		5 CT	By-product of drinking water disinfection		
Chlorine	mg/L	1,5	0.8 - 1.8	1.4	1.0 - 1.7	1.4	0.5 - 1.9	0.8	0.5 - 1.8	0.9	0.4 - 2.0	[4.0 (a:	s Cl ₂)]		Drinking water disinfectant added for treatment		
Table 4 - Sampling Results Showir	ng Detection o	f Secondary	Constituent														
Constituents	Reporting Unit	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	Average Level Detected	Range of Detection	M	MCL PHG (MCLG)		Typical Source of Contamination		
Chloride (Cl)	mg/L	68	11 - 84	73	35 - 110	97	44 - 150	98	96 - 100	61	23 - 71		00	NA	Runoff, leaching from natural deposits; seawater influence		
Specific Conductance (E.C.)	µmho/cm	513	369 - 540	570	470 - 670	635	460 - 810	535	510 - 560	774	700 - 790	16		NA	Substances that form ions when in water; seawater influence		
Sulfate (SO ₄) Total Dissolved Solids (TDS)	mg/L mg/L	11	9-14	23 370	20 - 25 300 - 440	16 415	13 - 18 280 - 550	8.0	7.8 - 8.1 350 - 370	79	75 - 86 450 - 540	10	00	NA NA	Runoff, leaching from natural deposits; industrial wastes Runoff/leaching from natural deposits		
Turbidity	NTU	ND	ND	ND	ND	415 ND	200 - 550 ND	ND	ND	ND	ND - 1.8		5	NA	Soil runoff		
Calcium (Ca)	mg/L	60	42 - 67	71	62 - 80	78	56 - 100	55	54 - 55	205	200 - 210	N	IA	NA	One of the elements that make up the earths crust's as components of many rock-forming minerals		
Magnesium (Mg)	mg/L	8,7	5.7 - 10	8.2	6.5 - 9.9	9.1	7.1 - 11	12	11 - 12	13	13	N	IA	NA	One of the elements that make up the earths crust's as components of many rock-forming minerals		
Potassium (K)	mg/L	2.0	1.0 - 2.0	2.4	2.2 - 2.6	2.3	1.8 - 2.8	1.3	1.3	4.0	4.0 - 4.1	N	IA	NA	One of the elements that make up the earths crust's as components of many rock-forming minerals		
рН	Standard Unit	7.7	7.3 - 8.0	7.8	7.8	7.8	7.7 - 7.9	7.5	7.4 - 7.5	7.6	7.6 - 7.7	N	IA	NA	Erosion of natural deposits		
Iron	µg/L	140	ND - 180	ND	ND	ND	ND	ND	ND	ND	ND	30	00	NA	Leaching from natural deposits		
Total Alkalinity	mg/L	112	98 - 140	130	120 - 240	125	120 - 130	90	85 - 95	205	200 - 210	N	IA	NA	Alkalinity is a measure of the buffering capacity of water, or the capacity of bases to neutralize acids		
Table 5 - Sampling Results Showir	ng Detection o	f Sodium ai	nd Hardness	Average	1	Autoromo		Average		Augrana	1						
Constituents	Reporting Unit	Level Detected	Range of Detection	Average Level Detected	Range of Detection	Level Detected	Range of Detection	Average Level Detected	Range of Detection	Level Detected	Range of Detection	M	CL	PHG (MCLG)	Typical Source of Contamination		
Sodium (Na)	mg/L	27	24 - 31	30	26 - 33	32	24 - 39	32	31 - 32	62	31 - 70		IA	NA	Generally found in ground and surface water		
Total Hardness (CaCO ₃)	mg/L	186 f Unregulat	130 - 210 ed Constituer	210	180 - 240	235	170 - 300	185	180 - 190	261	230 - 310	N	IA	NA	Generally found in ground and surface water		
rame e camping result chemi	le 6 - Sampling Results Showing Detection of Unregulated Constituents Reporting Average A			Average	Duran M			BUIC									
Constituents	Reporting Unit	Level Detected	Detection	Level Detected	Range of Detection	Level Detected	Range of Detection	Level Detected	Range of Detection	Level Detected	Range of Detection	Notificati	ion Level	PHG (MCLG)	Health Effects		
Boron	µg/L	ND	ND	ND	ND	ND	ND	110	110	180	ND - 250	10	000	NA	The babies of some pregnant women who drink water containing boron in excess of the notification level may have increased risk of developmental effects, based on studies in laboratory animals.		
1, 4 Dioxane	µg/L	0.21	0.17 - 0.24	0.42	0.34 - 0.63	0.19	0.09 - 0.31	ND	ND	0.65	0.61 - 0.68	1	1	NA	NA		
Chlorate	µg/L	42	27 - 57	58	22 - 72	71	31 - 170	23	21 - 25	110	110	-	00	NA	NA		
Molybdenum Strontium	µg/L	1.9	ND - 3.9	2.5	1.6 - 3.1	0.85	ND - 1.7 360 - 680	ND 370	ND 260 290	5.4	5.3 - 5.5		IA IA	NA NA			
	µg/L	301	270 - 440	513	380 - 590	515		370	360 - 380	515	490 - 540				The babies of some pregnant women who drink water containing vanadium in excess of the notification level ma		
Vanadium	µg/L	1.5	1.0 - 1.9	5.4	4.7 - 6.1	3.3	2.1 - 4.4	1.4	1.3 - 1.4	3.7	3,4 - 3,9		i0 14	NA	an increased risk of developmental effects, based on studies in laboratory animals.		
Total Silica	mg/L	9	ND - 18	25	24 - 26	24	22 - 25	12	12	25	24 - 25	(6)	IA	NA	NA Some People who use water containing Trichloropropane (1, 2, 3-TCP) in excess of the notification level over n		
⁽⁶⁾ Trichloropropane (1,2,3 - TCP)	ng/L		ND	ND	ND	ND	ND	23	15 - 28		6 - 10	(6)		NA	Lesine . Esple this des nate, sentaining menoropropulie [1, 2, 0 101] in course of internotation level over 1		

(1) NOTE: For hexavalent chromium the values reported came from treated water samples taken at point of entries. The untreated water (raw water) samples at 980 Zone had the highest Range of Detection of 5.0 µg/L and 870 zone (IXP) had the highest Range of Detection of 4.6 µg/L. The Chino II Wells before treatment had the highest Range of Detection of 4.7 µg/L. The hexavalent chromium and total chromium utilize different extraction methods and (1) NOTE: For hexa use different instruments. The hexavalent chromium result may come back higher than total chromium result due to this process.

(5) NOTE: For tetrachloroethylene (PCE) at 980 Zone the treated water samples taken at 980 blending point had highest sample result of 0.50 µg/L. The untreated water (raw water) samples taken from the well prior to blending at 980 Zone Blending Point had the highest Range of Detection of 0.79 µg/L.

(2) NOTE: Under permit for State Water Resources Control Board (State Board), Division of Drinking Water, JCSD may blend higher nitrate water sources with lower sources, all under the MCL which were administrative in nature to achieve an acceptable blend. This water is to be blended with all wells within this zone to maintain a maximum blended limit below 36 mg/L (which is 80% of the maximum contaminant level of 45 mg/L). (3) NOTE: For perchlorate at 870 Zone (IXP) the untreated water (raw water) samples taken from the 870 Zone IXP wells before treatment had the highest Range of Detection of 6.5 µg/L. At Rubidoux Intertie, the untreated (raw water) sample taken from a single well had the highest Range of Detection of 5.4 µg/L.

An assessment of the drinking water sources for Jurupa Community Services District was completed in July 2006. The sources are considered most vulnerable to the following activities not associated with contaminants detected in the water supply: Known Contaminant Plumes, Plastics/Synthetics Producers and Junk/Scrap/Salvage Yards. A copy of the complete assessment is available at 11201 Harrel Street. You may request a summary of the assessment to be sent to you by contacting the Water Quality Department at: (951) 685-7434 Ext. 198 For additional information regarding your water quality, please contact our Water Quality Department at: (951) 685-7434 Ext. 198.

(4) NOTE: For 1, 1 dichloroethylene (DCE) at 870 Zone (IXP) the treated water samples taken at IXP Product had the highest Range of Detection of 0.57 µg/L. The untreated water (raw water) samples taken from the well before treatment had the highest Range of Detection of 3.1 µg/L.

(6) NOTE: Board notifications made in January 2008 and September 2010.

JCSD uses Sodium Hypochlorite (Chlorine) for disinfection. JCSD does not use Chloramines.

APPENDIX M

JCSD ORDINANCE No. 389

ORDINANCE NO. 389

AN URGENCY ORDINANCE OF THE JURUPA COMMUNITY SERVICES DISTRICT REPEALING ORDINANCE NO. 387 AND REPLACING THE DISTRICT'S MANDATORY WATER CONSERVATION PROGRAM

WHEREAS, Jurupa Community Services District ("District") serves more than 3,000 customers, is an "urban water supplier" as defined in Water Code section 10617, and is subject to the Urban Water Management Planning Act; and

WHEREAS, pursuant to the Urban Water Management Planning Act, the District has prepared an Urban Water Management Plan ("UWMP"), which includes the District's Drought Contingency Plan; and

WHEREAS, California is currently in the fourth year of a significant drought resulting in severe impacts to California's water supplies and its ability to meet all of the demands for water in the state; and

WHEREAS, Governor Edmund G. Brown, Jr. declared a state of emergency on January 17, 2014, and due to continuing dry conditions, a continued state of emergency was declared on April 1, 2015; and

WHEREAS, Water Code section 1058.5 grants the State Water Resources Control Board ("SWRCB") the authority to adopt emergency regulations in years when the Governor has declared an emergency based upon drought conditions; and

WHEREAS, on July 15, 2014, the SWRCB formally adopted emergency rulemaking to enact emergency regulations for urban water suppliers; and

WHEREAS, in response to the emergency regulations adopted by the SWRCB on August 11, 2014, the Board of Directors adopted Ordinance No. 387 as an urgency ordinance to implement the regulations adopted by the SWRCB; and

WHEREAS, on March 17, 2015, and May 5, 2015, the SWRCB formally adopted additional emergency regulations for urban water suppliers due to continuing drought conditions; and

WHEREAS, the three sets of emergency regulations adopted by the SWRCB prohibit certain types of potable water use, order all urban water suppliers to implement mandatory conservation measures, and order water suppliers with 3,000 or more service connections to provide monthly data on water production; and

WHEREAS, the additional emergency regulations adopted by the SWRCB make it necessary to adopt a new ordinance to replace Ordinance No. 387 to implement the additional regulations; and

WHEREAS, the District may adopt an urgency ordinance where it is specifically required by law to take immediate effect; and

WHEREAS, pursuant to Water Code section 376, an ordinance adopting a water conservation program pursuant to Water Code section 375 takes effect immediately; and

WHEREAS, additional water conservation measures and restrictions, in addition to those set forth in this ordinance, may be required by the State of California or other agencies with jurisdiction over this District's service area.

NOW, THEREFORE, BE IT ORDAINED that the Board of Directors of Jurupa Community Services District does hereby adopt a water conservation program as follows:

ARTICLE 1.0 Declaration of Necessity and Intent.

A. The general welfare requires the District's water supplies to be put to their maximum beneficial use. Water conservation is required even in the best of times, and wasteful or unreasonable uses must be prevented. Water conservation must be practiced so that adequate water supplies will be available to serve the District and its customers, and for the public welfare.

B. This ordinance will apply during any type of water shortage including, but not limited to, drought and other natural disasters, water supply contamination, water system infrastructure failures or as ordered by other governmental agencies that have authority over the District.

C. This ordinance establishes the following five (5) Drought Response Levels to be implemented in response to worsening drought conditions or decreasing water supplies:

Level 1 – Drought Watch. Use restrictions are voluntary with a conservation target of up to 10%.

Level 2 – Drought Caution. Use restrictions are mandatory with a conservation target of up to 20%.

Level 3 – Drought Alert. Use restrictions are mandatory with a conservation target of up to 30%.

Level 4 – Drought Critical. Use restrictions are mandatory with a conservation target of up to 40%.

Level 5 – Drought Emergency. Use restrictions are mandatory with a conservation target of more than 40%.

D. During Drought Response Levels 2 - 5, violations of the water use restrictions cited and/or Water Allocation Targets established by this ordinance are subject to Penalties as provided in Article 10.0.

ARTICLE 1.1 Application.

This ordinance shall apply to all customers, water users, and premises receiving water service from the District, wherever situated, and shall also apply to all premises and facilities owned, maintained, operated, or under the jurisdiction of the District.

ARTICLE 2.0 Definitions.

The following words and phrases whenever used in this ordinance shall have the meaning hereinafter set forth:

A. "Applicant" means the person, association, corporation, developer, entity or governmental agency applying for water service.

B. "Billing unit" equals 748 gallons of water and is the unit amount of water used to calculate commodity charges for a customer's water usage.

C. "Board" means the Board of Directors of Jurupa Community Services District.

D. "Commercial and Industrial" means any business facility that receives water service from the District and that is not a single-family residence, multi-family residence, institutional user or dedicated irrigation meter account.

E. "Customer" means water customer or water user.

F. "District" means the Jurupa Community Services District, including its staff.

G. "Flow restricting device" or "flow restrictor" means a fitting inserted into the service connection to reduce flow capacity.

H. "Functional landscape" means landscape at a park, school, public recreation area or privately-operated common area that is utilized for recreational/leisure activities by more than a single residence.

I. "General Manager" means the General Manager of the District.

J. "Institutional" means schools, federal, state, and local governmental entities.

K. "Measurable rain" means 1/4 inch within 24 hours.

L. "Non-potable water" means water that is not suitable for human consumption in conformance with federal, state, and local drinking water standards, and is not treated by the District to make it suitable for human consumption.

M. "Ornamental landscape" means all landscape not included in the definition of "functional landscape."

N. "Person" means any person, firm, partnership, association, corporation, company, organization, or other entity.

O. "Potable water" means water which conforms to the federal, state, and local drinking water standards then in effect, or which will be treated to conform to those standards.

P. "Premises" means the integral property or area, including improvements thereon, to which water service is provided, or for which an application for service is filed.

Q. "Public Health and Safety Threshold" means eleven (11) billing units of water allotted to an account for essential indoor use during any monthly billing period.

R. "Public median" means any landscaped area bounded on both sides by roads used for travel, whether publicly or privately owned.

S. "Recycled water" means water available from the District's recycled water facilities, which may include a combination of treated wastewater, intercepted surface and subsurface flows, untreated groundwater, and other waters.

T. "Service connection" means the pipe or tubing, fittings, and valves necessary to transport water from the distribution main to and through the meter.

U. "Variance" means an adjusted Water Allocation Target approved by the Board of Directors during a Level 4 or Level 5 declaration.

V. "Water Allocation Target" means the amount of water permitted to be used for each account per monthly billing period that is not subject to a civil penalty.

W. "Water user" means any user of water, including a water customer.

Article 3.0 Water Conservation and Unreasonable Uses of Water.

A. It shall be unlawful for any Person to make, cause, use or permit the use of water from the District for residential, commercial, industrial, institutional, agricultural, irrigation, governmental, or any other purpose in a manner contrary to any mandatory provision of this ordinance, or in an amount that exceeds the amount permitted by the Drought Response Levels which are in effect pursuant to this ordinance. The water conservation measures set forth in this Article 3.0 shall be in effect at all times and shall be subject to the penalties hereafter set forth.

B. It shall be unlawful for any Person to waste water or to use it unreasonably. Unreasonable uses of water shall include, but are not limited to, the following practices:

1. Allowing water to flow from a Person's property onto adjacent properties, or onto public or private roadways or streets, due to excessive irrigation and/or leaks;

2. Failing to repair a water leak;

3. Using water to wash down sidewalks, driveways, parking areas, tennis courts, patios, or other paved areas, except to alleviate immediate safety or sanitation hazards;

4. Watering lawns and/or groundcovers and irrigating landscaping between the hours of 8:00 a.m. and 8:00 p.m.

C. A Drought Response Level may be declared by the Board of Directors in accordance with the provisions of this Water Conservation Program. A Drought Response Level shall remain in full force and effect until discontinued by resolution of the Board of Directors.

D. The District may declare a Drought Emergency (Level 5) at any time, without regard to the Drought Response Level previously in effect.

E. During Drought Response Levels 2-5, the water conservation and supply shortage response measures hereinafter set forth are mandatory, and violations are subject to administrative, civil, and criminal penalties and remedies, cumulatively, as specified in this ordinance and by State law.

ARTICLE 4.0 Drought Response Level 1 – Drought Watch Condition.

A. A Drought Response Level 1 condition is also referred to as a "Drought Watch" condition. A Level 1 condition applies when the Board of Directors requests all water users to voluntarily reduce their water use up to ten (10) percent to ensure that sufficient supplies will be available to meet anticipated demands. The Board of Directors may declare the existence of a Drought Response Level 1 by the adoption of a resolution, and upon such declaration, the District shall implement the Level 1 conservation measures identified in this ordinance.

B. During a Level 1 Drought Watch condition, the District will increase its public education and outreach efforts to enhance awareness of the need to implement the following water conservation practices:

1. Do not use water to wash down sidewalks, driveways, parking areas, tennis courts, patios, or other paved areas, except to alleviate immediate safety or sanitation hazards.

2. Adjust sprinklers and irrigation systems to avoid overspray, runoff, and waste. Customers should also avoid watering on windy days.

3. Irrigate all landscapes before dawn, if possible, but never between 8:00 a.m. and 8:00 p.m. Use a hand-held hose equipped with a positive shut-off nozzle or bucket to water landscaped areas that are not irrigated by a landscape irrigation system.

4. Irrigation is prohibited during and for 48 hours after measurable rain as defined in Article 2.0.

5. Agricultural users are requested to reduce water usage and to consult with the local Resource Conservation District as needed or industry associations in their area for appropriate water conservation measures and to implement them as soon as possible.

6. Residents are urged to design and install water-wise landscaping utilizing native and other drought-tolerant plant materials, and to minimize turf areas for permanent water conservation.

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7. Developers of Commercial, Industrial and Institutional properties are urged to design and install water-wise landscaping utilizing native and other drought-tolerant plant materials, and to minimize turf areas for permanent water conservation, as required by city/county landscape ordinances.

8. Install water-saving devices in indoor plumbing.

9. Check faucets, toilets, and pipes, both indoors and outdoors, for leaks and repair them immediately.

10. Use re-circulated water to operate decorative fountains, ponds, lakes or other similar aesthetic structures.

11. Wash motor vehicles, trailers, boats, and all other mobile equipment using a bucket or a hand-held hose with a positive shut-off nozzle, mobile high-pressure/low-volume wash system, or at a commercial site that recirculates (reclaims) water onsite. Avoid washing during hot conditions when additional water is required due to evaporation.

12. Restaurants or other public places where food is served shall not serve drinking water to any customer unless expressly requested.

13. Operators of hotels and motels must provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.

ARTICLE 5.0 Drought Response Level 2 – Drought Caution Condition.

A. A Drought Response Level 2 condition is also referred to as a "Drought Caution" condition. A Level 2 condition applies when the Board of Directors mandates all water users to reduce their water use more than ten (10) percent and up to twenty (20) percent to ensure that sufficient supplies will be available to meet anticipated demands. The Board of Directors shall declare the existence of a Drought Response Level 2 by the adoption of a resolution, and upon such declaration, the District shall implement the Level 2 conservation measures identified in this ordinance.

B. All persons using water from the District shall comply with Level 1 "Drought Watch" water conservation practices during a Level 2 drought and shall also comply with the following additional mandatory conservation measures:

1. Whether irrigated with potable or non-potable water, limit all outdoor irrigation to four (4) days per week for no more than ten (10) minutes per station per day. This provision does not apply to functional landscape, which shall be limited to five (5) days per week as approved by the District.

2. Ornamental landscapes, including trees that utilize properly operating water-efficient devices which include, but are not limited to, drip irrigation systems, stream rotor sprinklers, and are operated by a functional irrigation controller, upon verification by JCSD or its representative, may be irrigated on the following schedule:

- a. Drip irrigation thirty (30) minutes per station on the days authorized for landscape irrigation.
- b. Stream rotors twenty (20) minutes per station on the days authorized for landscape irrigation.

3. All leaks must be repaired or otherwise stopped within seventy-two (72) hours of notification by the District unless other arrangements are approved by the General Manager or designee.

C. During Drought Response Level 2, violation of the mandatory water conservation measures shall be subject to the civil penalties specified in Article 10.0, in addition to all other criminal and civil sanctions available under State law.

ARTICLE 6.0 Drought Response Level 3 – Drought Alert Condition.

A. A Drought Response Level 3 condition is also referred to as a "Drought Alert" condition. A Level 3 condition applies when the Board of Directors mandates all water users to reduce their water use more than twenty (20) percent and up to thirty (30) percent to ensure that sufficient supplies will be available to meet anticipated demands. The Board of Directors shall declare the existence of a Drought Response Level 3 by the adoption of a resolution, and upon such declaration the District shall implement the Level 3 conservation measures identified in this ordinance.

B. All persons using water from the District shall comply with Level 1 "Drought Watch" and Level 2 "Drought Caution" conservation practices during a Level 3 "Drought Alert" condition and shall also comply with the following additional mandatory conservation measures:

1. Whether irrigated with potable or non-potable water, limit outdoor irrigation to three (3) days per week for no more than ten (10) minutes per station per day. This provision does not apply to functional landscape which shall be limited to four (4) days per week as approved by the District.

2. Ornamental landscapes, including trees that utilize properly operating water-efficient devices which include, but are not limited to, drip irrigation systems, stream rotor sprinklers, and are operated by a functional irrigation controller, upon verification by JCSD or its representative, may be irrigated on the following schedule:

- a. Drip irrigation thirty (30) minutes per station on the days authorized for landscape irrigation.
- b. Stream rotors twenty (20) minutes per station on the days authorized for landscape irrigation.

3. The following irrigation schedule will be implemented and enforced: odd-numbered addresses (the last digit is an odd number) must commence and complete irrigation cycles on Mondays, Wednesdays and Fridays. Even-numbered addresses (the last digit is an even number) must commence and complete irrigation cycles on Tuesdays, Thursdays and Saturdays. There will be no authorized landscape irrigation on Sunday.

4. There will be no irrigation of turf on public medians.

5. Irrigation with potable water outside of newly-constructed homes and buildings in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development is prohibited.

6. Use of potable water for dust control and grading of construction sites must be minimized. Each developer must submit a proposed Water Conservation Plan that includes projected water use and ongoing conservation efforts for review and approval by the District. Use of water for dust control and grading shall only be permitted as set forth in a Water Conservation Plan approved by the District.

7. Upon the declaration of a Drought Response Level 3 "Drought Alert" condition, issuance of new service availability letters shall be allowed provided that the applicant provides substantial evidence to the satisfaction of the District of an enforceable commitment that water demands for the project will be offset by one hundred percent (100%) prior to the provision of a new water meter(s). This provision shall not be construed to preclude the resetting or turn-on of meters to provide continuation of water service or to restore service that has been interrupted for a period of one year or less.

8. All leaks must be repaired or otherwise stopped within fortyeight (48) hours of notification by the District unless other arrangements are approved by the General Manager.

C. During Drought Response Level 3, violation of the mandatory water conservation measures shall be subject to the civil penalties specified in Article 10.0, in addition to all other criminal and civil sanctions available under State law.

ARTICLE 7.0 Drought Response Level 4 – Drought Critical Condition.

A. A Drought Response Level 4 condition is also referred to as a "Drought Critical" condition. A Level 4 condition applies when the Board of Directors mandates all water users reduce their water use more than thirty (30) percent and up to forty (40) percent to ensure that sufficient supplies will be available to meet anticipated demands. The Board of Directors shall declare the existence of a Drought Response Level 4 by the adoption of a resolution, and upon such declaration, the District shall implement the Level 4 conservation measures identified in this ordinance.

B. All persons using District water shall comply with Level 1 "Drought Watch," Level 2 "Drought Caution," and Level 3 "Drought Alert" conservation practices during a Level 4 "Drought Critical" condition and shall also comply with the following additional mandatory conservation measures:

1. Whether irrigated with potable or non-potable water, limit all outdoor irrigation to two (2) days per week for no more than ten (10) minutes per station per day. This provision does not apply to functional landscape, which shall be limited to three (3) days per week as approved by the District. Additional exemptions shall include:

- a. Maintenance of existing landscaping necessary for fire protection as specified by the Fire Marshal of the local fire protection agency having jurisdiction over the property to be irrigated. If fire protection landscaping is not sustainable by irrigation two (2) days per week, irrigation may be increased to not more than three (3) days per week;
- b. Maintenance of existing landscaping for erosion control may be irrigated up to three (3) days per week;
- c. Watering of livestock and other animals;
- d. Public works projects that support public health and safety; and
- e. Actively irrigated environmental mitigation projects.

2. Ornamental landscapes, including trees that utilize properly operating water-efficient devices which include, but are not limited to, drip irrigation systems and are operated by a functional irrigation controller, upon verification by JCSD or its representative, may be irrigated on the following schedule:

- a. Drip irrigation thirty (30) minutes per station on the days authorized for landscape irrigation.
- b. Stream rotors twenty (20) minutes per station on the days authorized for landscape irrigation.

3. The following irrigation schedule will be implemented and enforced: odd-numbered addresses (the last digit is an odd number) must commence and complete irrigation cycles on Mondays and Thursdays. Evennumbered addresses (the last digit is an even number) must commence and complete irrigation cycles on Tuesdays and Fridays. There will be no authorized landscape irrigation on Wednesdays, Saturdays, and Sundays.

4. Vehicles may only be washed at commercial carwashes that re-circulate water or by high-pressure/low-volume wash devices.

C. Upon the declaration of a Drought Response Level 4 "Drought Critical" condition, issuance of new service availability letters shall be suspended, but new connections shall be allowed pursuant to service availability letters then in effect provided that the applicant provides substantial evidence to the satisfaction of the District of an enforceable commitment that water demands for the project will be offset by one hundred twenty-five percent (125%) prior to the provision of a new water meter(s). This provision shall not be construed to preclude the resetting or turn-on of meters to provide continuation of water service or to restore service that has been interrupted for a period of one year or less. In addition, new connections shall be permitted if necessary to protect the public's health, safety and welfare as determined by the Board of Directors; and temporary construction meters shall be permitted as necessary to service development for which permanent connections are authorized.

D. Upon the declaration of a Drought Response Level 4 condition, the District will suspend consideration of annexations to its service area, unless the annexation increases the water supply available to the District by more than the anticipated demands of the property to be annexed.

E. To increase conservation, the District may establish a water allocation for property served. The following method will be utilized which accounts for general public health and safety.

Residential and Multi-family Customers

1. The Board of Directors will determine the Water Allocation Target percentage in the resolution adopting a Level 4 "Drought Critical" Response. 2. This calculation will only be applied to consumption in excess of the Public Health and Safety Threshold of eleven (11) units per monthly billing period. A residential Water Allocation Target will be calculated for each account by comparing usage in the current billing period to the same period identified in the resolution.

3. If the residential account uses more water than the Water Allocation Target amount, excess consumption shall constitute violations subject to the civil penalties set forth in Article 10.0.

All Other Accounts

4. The Board of Directors will determine the Water Allocation Target percentage in the resolution adopting a Level 4 "Drought Critical" Response. A Public Health and Safety Threshold shall not apply.

5. A Water Allocation Target will be calculated for each account by comparing usage in the current billing period to the same period identified in the resolution.

6. If an account uses more water than the Water Allocation Target amount, excess consumption shall constitute violations subject to the civil penalties set forth in Article 10.0.

F. An application may be made to the Board of Directors for a variance from the Water Allocation Target.

G. During Drought Response Level 4, violation of the mandatory water conservation measures shall also be subject to all other criminal and civil sanctions available under State law, in addition to the civil penalties set forth in Article 10.0.

ARTICLE 8.0 Drought Response Level 5 – Drought Emergency Condition.

A. A Drought Response Level 5 condition is also referred to as a "Drought Emergency" condition. In the event of a water shortage of more than forty (40) percent, or at any other time that the Board of Directors deems it necessary or appropriate, the Board may consider declaring a Level 5 Drought Emergency condition pursuant to California Water Code section 350, et seq.

B. Upon declaration of a Level 5 Drought Emergency condition, the Board of Directors may consider a moratorium on new service connections, regardless of the existence of water availability letters for such connections. In addition, all persons using water from the District shall comply with conservation measures required during Level 1 "Drought Watch," Level 2 "Drought Caution," Level 3 "Drought Alert," and Level 4 "Drought Critical" conditions and shall also comply with the following additional mandatory conservation measure.

C. To increase conservation, the District may establish a water allocation for the property served. The following method will be utilized which accounts for general public health and safety.

Residential and Multi-family Customers

1. The Board will determine the Water Allocation Target percentage in the resolution adopting a Level 5 "Drought Emergency" Response. This calculation will only be applied to consumption in excess of the Public Health and Safety Threshold of eleven (11) units per monthly billing period. A residential Water Allocation Target will be calculated for each account by comparing usage in the current billing period to the same period identified in the resolution.

2. If the residential account uses more water than the Water Allocation Target amount, excess consumption shall constitute violations subject to the civil penalties set forth in Article 10.0, or as otherwise provided in the resolution declaring the Level 5 Drought Emergency condition.

All Other Accounts

3. The Board of Directors will determine the Water Allocation Target percentage in the resolution adopting a Level 5 "Drought Emergency" Response. A Public Health and Safety Threshold shall not apply.

4. A Water Allocation Target will be calculated for each account by comparing usage in the current billing period to the same period identified in the resolution.

5. If an account uses more water than the Water Allocation Target amount, a penalty will be applied.

D. An application may be made to the Board of Directors for a variance from the Water Allocation Target.

E. During Drought Response Level 5, violation of the mandatory water conservation measures shall also be subject to all other criminal and civil sanctions available under State law, in addition to the civil penalties set forth in Article 10.0.

ARTICLE 9.0 Procedures for Determination and Notification of Drought Response Level.

A. General Manager shall monitor drought conditions and regulations, as well as evaluate the supply and demand for water by its customers, and shall recommend the Drought Response Level to be declared by the Board of Directors.

B. The existence of a Drought Response Level 1 "Watch" condition may be declared by the Board of Directors. The General Manager shall publish a notice of the determination in one or more newspapers, including a newspaper of general circulation within the District. The District shall also post notice of the condition on its website.

The existence of Drought Response Level 2 "Drought Caution," C. Level 3 "Drought Alert," or Level 4 "Drought Critical," or Level 5 "Drought Emergency" condition may be declared by resolution of the Board of Directors adopted at a regular or special public meeting held in accordance with State law. The mandatory conservation measures applicable to Drought Response Levels 2, 3, 4 or 5 conditions shall take effect immediately or as otherwise provided by State law. Within ten (10) days following the declaration of the response level, the District shall publish a copy of the resolution in a newspaper used for publication of official notices. If the District establishes a water allocation in response to a Drought Response Level 4 or Level 5 condition, it shall provide notice of the allocation by including it in the regular billing statement for the fee or charge or by any other mailing to the address to which the District customarily mails the billing statement for fees or charges for ongoing water service. Water allocation shall be effective on the fifth (5th) day following the date of mailing or at such later date as specified in the notice.

D. The District's Board of Directors may declare an end to a Drought Response Level by the adoption of a resolution at any regular or special meeting held in accordance with State law.

ARTICLE 10.0 Violations and Penalties.

A. Any person, who uses, causes to be used, or permits the use of water in violation of this ordinance is guilty of an offense punishable as provided herein.

B. The District will make a reasonable effort to assist customers with compliance. Reasonable efforts include, but are not limited to, personal contact, door hanger, letter, email or via telephone whenever possible to notify customers of any violation.

C. Each day that a violation of this ordinance occurs is a separate offense.

D. Civil penalties may be levied for each violation of the water-use restrictions specifically cited in this ordinance in Drought Levels 2-5 as follows:

1. Twenty-five dollars (\$25.00) for a first violation of any provision of this ordinance.

2. Fifty dollars (\$50.00) for a second violation of any provision of this ordinance within one year of the date of the first violation.

3. One hundred dollars (\$100.00) for a third violation of this ordinance within one year of the date of the first violation.

4. Two hundred dollars (\$200.00) for a fourth violation of this ordinance within one year of the first violation.

5. Five hundred dollars (\$500.00) for a fifth violation of this ordinance within one year of the first violation.

E. When a Water Allocation Target is established for a water account during a Drought Response Level 4 – Drought Critical Condition or during a Drought Response Level 5 – Drought Emergency Condition, water use in excess of the assigned Water Allocation Target during any monthly billing period shall also constitute one or more violations of this ordinance, for which civil penalties shall be imposed, as follows:

1. Water use in excess of the Water Allocation Target per Equivalent Dwelling Unit in any monthly billing period shall constitute a first violation resulting in written notification.

2. Water use in excess of the Water Allocation Target per Equivalent Dwelling Unit in any monthly billing period within one year of the first violation shall constitute a second violation resulting in a second written notification and a twenty dollar (\$20.00) civil penalty.

3. Water use in excess of the Water Allocation Target per Equivalent Dwelling Unit in any monthly billing period within one year of the first and second violations shall constitute a third violation resulting in a fifty dollar (\$50.00) civil penalty. Such penalty shall be waived upon successful completion of authorized Water Conservation class/workshop.

4. Water use in excess of the Water Allocation Target per Equivalent Dwelling Unit in any monthly billing period within one year of the first, second, and third violations shall constitute a fourth violation resulting in a one hundred dollar (\$100.00) civil penalty.

5. Water use in excess of the Water Allocation Target per Equivalent Dwelling Unit in any monthly billing period within one year of the first, second, third, and fourth violations shall constitute a fifth violation resulting in a two hundred fifty dollar (\$250.00) civil penalty.

6. Water use in excess of the Water Allocation Target per Equivalent Dwelling Unit in any monthly billing period within one year of the first, second, third, fourth, and fifth violations shall constitute a sixth violation resulting in a five hundred dollar (\$500.00) civil penalty.

Civil penalties for water use in excess of an assigned Water Allocation Target shall be due and payable, as penalties, in addition to the District's charge for the water delivered to the account according to the District's water rate schedule then in effect. Penalty amounts may be separately itemized on the District's monthly bill for water service, and shall be due and payable at the same time, and in the same manner, as charges for water service. Subject to the hearing and appeal procedure hereinafter set forth, nonpayment of such penalties, when due, shall be cause for termination of water service, and the District may secure payment thereof by recording a lien on the property that received water service in the manner allowed by law.

F. When a civil penalty is to be imposed, the customer will be given written notice of the penalty to be imposed. Within seven (7) days after delivery of such notice, the customer may submit a written request to the District requesting a hearing by the General Manager or designee and an opportunity to present evidence that a violation has not occurred. The hearing shall be scheduled no later than fourteen (14) days after the District's receipt of such written request. Within fourteen (14) business days after the hearing, the General Manager or designee shall render a decision in writing to the customer that requested the hearing. Upon receipt of the written decision, the customer shall have fourteen (14) days to appeal the decision to the Board of Directors. The Board of Directors shall then schedule the matter for consideration at a regular or special meeting of the Board and render its decision, which shall be a final decision.

G. Penalties collected shall be utilized solely to implement and enforce water conservation measures.

H. Violation of a provision of this ordinance is subject to enforcement through installation of a flow-restricting device at the meter.

I. Pursuant to Water Code section 377, each violation of this ordinance may also be prosecuted as a misdemeanor punishable by imprisonment in the county jail for not more than thirty (30) days or by a fine not exceeding one thousand dollars (\$1,000.00) or by both.

J. Willful violations of this ordinance shall also constitute cause for termination of service to the property at which the violation occurs. In the event of termination of service, such service shall not be resumed until such time as the Board of Directors receives satisfactory assurances that violations will not recur. The customer shall be responsible for the District's standard fees and charges for termination and resumption of service.

ARTICLE 11.0 Revocation of Prior Ordinances.

Ordinance No. 387, establishing a water conservation program, is hereby repealed. This ordinance provides the only water conservation plan applicable to the District.

ARTICLE 12.0 Effective Date.

This ordinance shall become effective immediately as an urgency ordinance in accordance with Water Code section 376.

ADOPTED this 26th day of May 2015.

President of the Board of Directors

ATTEST:

Secretary of the Board of Directors

CERTIFICATION

I, Julie B. Saba, Secretary of the Board of Directors of Jurupa Community Services District, certify that the foregoing ordinance was adopted at a regular meeting of the Board of Directors on 26th day of May 2015, by the following vote of the Directors:

> AYES: Jane F. Anderson, Kenneth J. McLaughlin, Robert Craig, Betty A. Anderson

- NOES: Chad Blais
- ABSENT: None

ABSTAINED: None

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of Jurupa Community Services District this 26th day of May 2015.

Secretary of the Board of Directors

(SEAL)

APPENDIX N

JCSD RESOLUTIONS No. 2627 and No. 2628

RESOLUTION NO. 2627

RESOLUTION OF THE BOARD OF DIRECTORS OF JURUPA COMMUNITY SERVICES DISTRICT ESTABLISHING A WATER CAPACITY CHARGE FOR CONNECTIONS TO THE DISTRICT'S POTABLE WATER SYSTEM AND FINDING THE APPROVAL OF SUCH CHARGES EXEMPT FROM ENVIRONMENTAL REVIEW UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

WHEREAS, Jurupa Community Services District ("District") collects Water Added Facilities Charges, otherwise known as capacity charges, for connections to the District's potable water distribution system; and

WHEREAS, pursuant to Government Code Sections 61115, 66013 and 66016, and District Ordinance No. 400, this Board of Directors ("Board") may adjust the District's current capacity charges by resolution to charge for public facilities in existence at the time the charge is imposed or for new facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights involving capital expense relating to the District's use of existing or new public facilities; and

WHEREAS, this Board has engaged the professional engineering firm of Carollo Engineers, Inc. to conduct a study of the District's capacity charges imposed for connections to the District's potable water system, titled "2015 Capacity Charges Study" ("Study"), to determine what adjustments should be made to the District's Water Added Facilities Charges in order to fairly allocate the cost of public facilities currently existing or to be acquired or constructed in the future, including supply or capacity contracts for rights and entitlements, real property interests, and entitlements and other rights involving capital expense relating to the use of existing or new public facilities, in proportion to the benefit to the person or property being charged; and

WHEREAS, the Study includes data indicating the amount of the cost, or estimated cost, required to pay for capacity and water supply rights or entitlements to make potable water available, and the revenue sources anticipated to cover those costs; and

WHEREAS, a copy of the Study was made available to the public at least 10 days prior to the date of adoption of this resolution; and

WHEREAS, at least 14 days prior to the date of adoption of this resolution, the District mailed a notice to all persons that had filed with the District a written request for such notice, and also to a number of interested persons that had not filed a written request, of the meeting at which this Board would consider adoption of

this resolution; and

WHEREAS, the California Environmental Quality Act ("CEQA") confirms that the approval of rates, tolls, fares, and other charges for the purposes of obtaining funds for capital projects necessary to maintain service within the District's existing service area, are exempt from environmental review (Public Resources Code § 21080(b)(8); State CEQA Guidelines § 15273(a); and

WHEREAS, the proposed capacity charge is necessary to obtain funds consistent with the above CEQA exemptions and such capacity charge would be used to fund capital projects needed to maintain its ability to provide service within the District's existing service area; and

WHEREAS, at said meeting, this Board has invited and considered all written and oral comments on the Study and the proposed adjustments to the District's Water Added Facilities Charges imposed for connections to the District's potable water system, as set forth in the Study;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Jurupa Community Services District as follows:

1. Consistent with CEQA, the State CEQA Guidelines, and the District's Local CEQA Guidelines, the approvals of the capacity charge described in this Resolution is exempt from environmental review under CEQA as set forth in Public Resources Code § 21080(b)(8) and State CEQA Guidelines § 15273(a). This finding is based on the fact that the charge is for purposes of obtaining funds for capital projects to maintain service within the District's existing service area. These findings are supported by the system and capacity charge Study referenced above and incorporated herein by reference. Nonetheless, the Board finds that all appropriate environmental review will be completed when and as specific capital projects are brought forward for potential approval at a future time. Finally, the Board finds that it would be premature at this time to conduct environmental review for any specific capital improvement project because the timing of when individual projects may be brought forward for consideration is unknown. Specifically, the precise locations/sizes of the potential capital facilities are unknown; the exact acreages that may be disturbed by the construction of those facilities have not been determined; and the biological species, sensitive receptors, or other resources that may be affected by any construction or operation are likely to change between today and the time that any improvement is brought forward for construction. Accordingly, State CEQA Guidelines section 15004 confirms that environmental review should not yet be undertaken because there is not yet sufficient information available to enable "meaningful" environmental review.

2. In addition to the service charge and meter installation charge to be paid for each new connection to the District's potable water system, applicants for water service from the District shall also pay to the District a Water Capacity Charge which shall include both a facilities charge component per Meter Equivalent Unit and also a water resources charge component per Meter Equivalent Unit, according to the schedule and as listed by meter size in Appendix A. Beginning July 1, 2016, and annually thereafter, the amount of all components of the Water Capacity Charge shall be increased in proportion to the change in the Engineering News Record - Construction Cost Index for the most recently reported 12-month period then available.

3. As used herein, the term "Meter Equivalent Unit" shall be defined as the capacity provided to a single-family residence through a 5/8 inch meter.

4. The Board hereby approves the imposition of a Water Capacity Charge as described above.

5. This resolution shall become effective immediately upon its adoption, and shall be applied to new development as proposed in the Study and in accordance with Section 6.1 of the District's Developers Handbook. The Water Capacity Charge shall supersede the Water Added Facilities Charge previously in effect.

6. District staff are hereby directed to file and have posted a Notice of Exemption with the County Clerk of Riverside County within five (5) working days of this approval.

7. The custodian of the record of proceedings for this action shall be the Secretary to the Board of Directors, whose offices are located at 11201 Harrel Street, Jurupa Valley, CA 91752.

ADOPTED this 14th day of March 2016.

President of the Board of Directors

ATTEST:

Secretary of the Board of Directors

CERTIFICATION

I, Julie B. Saba, Secretary of the Board of Directors of Jurupa Community Services District, certify that the foregoing resolution was adopted by the Board of Directors at a regular meeting held on the 14th day of March 2016, by the following vote of the Directors:

> AYES: Chad Blais, Kenneth J. McLaughlin, Betty A. Anderson, Joan E. Roberts, Jane F. Anderson

NOES: None

ABSENT: None

ABSTAINED: None

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of Jurupa Community Services District this 14th day of March 2016.

Secretary of the Board of Directors

(SEAL)

APPENDIX A

Water Charge by Meter Size Effective March 14,2016

Meter Size,	N 48-1 1	Facility	Water Resources	Total Capacity	
inches	MEŲ	Component	Component	Charge	
5/8	1	\$ 7,767	\$ 1,779	\$ 9,545	
3/4	1	7,767	1,779	9,545	
1	2.5	16,392	4,446	20,839	
1.5	5	32,784	8,893	. 41,677	
2	8	52,455	14,228	66,683	
3	16	104,002	28,457	132,459	
4	25	163,921	44,464	208,385	
6	50	327,843	88,928	416,770	
8	80	524,548	142,284	666,833	
10	210	1,631,039	373,497	2,004,535	

Water Charge by Meter Size Effective July 1,2017*

		2		<u> </u>
Meter Size,		Facility	Water Resources	Total Capacity
inches	MEU	Component	Component	Charge
5/8	1	\$ 8,274	\$ 3,557	\$ 11,831
3/4	1	8,274	3,557	11,831
1	2.5	20,684	. 8,893	29,577
1.5	5	41,369	17,786	59,154
2	8	66,190	28,457	94,647
3	16	132,379	56,914	189,293
4	25	206,843	88,928	295,770
6	50	413,685	177,856	591,541
8	80	661,896	284,569	946,465
10	210	1,737,477	746,993	2,484,471

* Above charge prior to annual adjustment for Engineering News Record - Construction Cost Index

RESOLUTION NO. 2628

RESOLUTION OF THE BOARD OF DIRECTORS OF JURUPA COMMUNITY SERVICES DISTRICT ESTABLISHING A SEWER CAPACITY CHARGE FOR DISTRICT'S CONNECTIONS TO THE SEWAGE COLLECTION AND TRANSMISSION SYSTEM AND FINDING THE APPROVAL OF SUCH CHARGES EXEMPT REVIEW FROM ENVIRONMENTAL UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

WHEREAS, Jurupa Community Services District ("District") collects a Sewer Facilities Fee, otherwise known as a sewer capacity charge, for connections to the District's sewage collection and transmission system; and

WHEREAS, pursuant to Government Code Sections 61115, 66013 and 66016, and District Ordinance No. 400, this Board of Directors ("Board") may adjust the District's current Sewer Facilities Fee by resolution to charge for public facilities in existence at the time the charge is imposed or for new facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights involving capital expense relating to the District's use of existing or new public facilities; and

WHEREAS, this Board has engaged the professional engineering firm of Carollo Engineers, Inc. to conduct a study of the District's capacity charges imposed for connections to the District's sewage system, titled "2015 Capacity Charges Study" ("Study"), to determine what adjustments should be made to the District's Sewer Facilities Fee in order to fairly allocate the cost of public facilities currently existing or to be acquired or constructed in the future, including supply or capacity contracts for rights and entitlements, real property interests, and entitlements and other rights involving capital expense relating to the use of existing or new public facilities, in proportion to the benefit to the person or property being charged; and

WHEREAS, the Study includes data indicating the amount of the cost, or estimated cost, required to pay for capacity in the District's sewage collection and transmission system, and the revenue sources anticipated to cover those costs; and

WHEREAS, a copy of the Study was made available to the public at least 10 days prior to the date of adoption of this resolution; and

WHEREAS, at least 14 days prior to the date of adoption of this resolution, the District mailed a notice to all persons that had filed with the District a written request for such notice, and also to a number of interested persons that had not filed a written request, of the meeting at which this Board would consider adoption of this resolution; and

WHEREAS, the California Environmental Quality Act ("CEQA") confirms that the approval of rates, tolls, fares, and other charges for the purposes of obtaining funds for capital projects necessary to maintain service within the District's existing service area, are exempt from environmental review (Public Resources Code § 21080(b)(8); State CEQA Guidelines § 15273(a); and

WHEREAS, the proposed capacity charge is necessary to obtain funds consistent with the above CEQA exemptions and such capacity charge would be used to fund capital projects needed to maintain its ability to provide service within the District's existing service area; and

WHEREAS, at said meeting, this Board has invited and considered all written and oral comments on the Study and the proposed adjustments to the District's capacity charges imposed for connections to the District's sewage collection and transmission system, as set forth in the Study;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Jurupa Community Services District as follows:

Consistent with CEQA, the State CEQA Guidelines, and the 1. District's Local CEQA Guidelines, the approvals of the capacity charge described in this Resolution is exempt from environmental review under CEQA as set forth in Public Resources Code § 21080(b)(8) and State CEQA Guidelines § 15273(a). This finding is based on the fact that the charge is for purposes of obtaining funds for capital projects to maintain service within the District's existing service area. These findings are supported by the system and capacity charge Study referenced above and incorporated herein by reference. Nonetheless, the Board finds that all appropriate environmental review will be completed when and as specific capital projects are brought forward for potential approval at a future time. Finally, the Board finds that it would be premature at this time to conduct environmental review for any specific capital improvement project because the timing of when individual projects may be brought forward for consideration is unknown. Specifically, the precise locations/sizes of the potential capital facilities are unknown; the exact acreages that may be disturbed by the construction of those facilities have not been determined; and the biological species, sensitive receptors, or other resources that may be affected by any construction or operation are likely to change between today and the time that any improvement is brought forward for construction. Accordingly, State CEQA Guidelines section 15004 confirms that environmental review should not yet be undertaken because there is not yet sufficient information available to enable "meaningful" environmental review.

2. Applicants for sewer service from the District shall pay to the District a Sewer Capacity Charge per Equivalent Dwelling Unit according to the schedule set forth in Appendix A. Beginning July 1, 2016, and annually thereafter, the amount of the Sewer Capacity Charge shall be increased in proportion to the change in the Engineering News Record - Construction Cost Index for the most recently reported 12-month period then available.

3. As used herein, the term "Equivalent Dwelling Unit" shall be defined as 220 gallons per day discharge to the sewer system.

4. In the Bellegrave Avenue Area as described in the District's Resolution No. 2615, the Sewer Capacity Charge, as adjusted, shall be increased by the amount of \$3,268, and the amount of such increase shall be allocated among the Eastvale Pipelines, the Bellegrave Avenue Area Pipelines, the River Road Lift Station & Force Mains, the Western Riverside County Regional Wastewater Authority Wastewater Treatment Plant Expansion, and Lift Station Conversion in the manner described in Resolution No. 2615.

5. The Board hereby approves the imposition of a Sewer Capacity Charge as described above

6. This resolution shall become effective immediately upon its adoption, and shall be applied to new development as proposed in the Study and in accordance with Section 6.1 of the District's Developers Handbook. The Sewer Capacity Charge shall supersede the Sewer Facilities Fee previously in effect.

7. District staff are hereby directed to file and have posted a Notice of Exemption with the County Clerk of Riverside County within five (5) working days of this approval.

8. The custodian of the record of proceedings for this action shall be the Secretary to the Board of Directors, whose offices are located at 11201 Harrel Street, Jurupa Valley, CA 91752.

ADOPTED this 14th day of March 2016.

President of the Board of Directors

ATTEST:

Secretary of the Board of Directors

CERTIFICATION

I, Julie B. Saba, Secretary of the Board of Directors of Jurupa Community Services District, certify that the foregoing resolution was adopted by the Board of Directors at a regular meeting held on the 14th day of March 2016, by the following vote of the Directors:

> AYES: Chad Blais, Kenneth J. McLaughlin, Betty A. Anderson, Joan E. Roberts, Jane F. Anderson

- NOES: None
- ABSENT: None

ABSTAINED: None

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of Jurupa Community Services District this 14th day of March 2016.

of the Board of Directors

(SEAL)

Appendix A

Sewer C	Charge	e per EDU I	Effective March 14,2016
EDU	Sewe	er Charge	·
1	\$	6,441	
Sewer	Charge	e per EDU I	Effective July 1, 2017 *
EDU	Sewe	er Charge	
1	\$	6,971	· ·

* Above charge prior to annual adjustment for Engineering News Record - Construction Cost Index

APPENDIX O

JCSD Resolution Nos. 2511 and 2512

RESOLUTION NO. 2511

RESOLUTION OF THE BOARD OF DIRECTORS OF JURUPA COMMUNITY SERVICES DISTRICT ESTABLISHING RATES FOR WATER SERVICE

WHEREAS, Jurupa Community Services District ("District") has engaged the services of a professional rate consultant, Municipal & Financial Services Group ("Rate Consultant"), to perform a study of the District's rates and charges for water and sewer services; and

WHEREAS, the District's Rate Consultant has provided a report to the District entitled "Comprehensive Water and Sewer Rate Study" recommending revisions to the District's rates and charges for water and sewer services, which has been posted on the District's internet web page and has been available for public review since September 2014; and

WHEREAS, this Board has also conducted a series of public workshops to consider the proposed adjustments to the District's water and sewer rates and to consider comments on the proposed rates; and

WHEREAS, pursuant to the requirements of Article XIIID, Section 6 of the California Constitution, the District provided mailed notice of the proposed water and sewer rates to all property owners and customers who would be affected by said rates, advising them of a public hearing to be conducted by this Board on November 10, 2014, and the opportunity to protest the proposed rates in writing, which notice was mailed more than 45 days prior to the public hearing; and

WHEREAS, on November 10, 2014, this Board conducted a public hearing on the proposed rates as provided in the notice mailed to property owners and to customers who would be affected by the rates, considered all written protests to the proposed rates filed with the District prior to the conclusion of the public hearing, and has determined that the written protests filed with the District represent fewer than 50% of the number of parcels that would be affected by the proposed rates; and

WHEREAS, this Board has determined that the rates for water service proposed in the study are necessary in order to cover actual costs incurred by the District in providing water service to its customers and will not produce revenues in excess of costs of such service.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of Jurupa Community Services District hereby approves the adjusted rates for water service set forth on Exhibit "A," attached hereto, effective January 1, 2015.

BE IT FURTHER RESOLVED that the District's General Manager is hereby authorized to request a determination by this Board of Directors regarding the appropriate rate classification to be applied to any customer of the District, which determination shall be final and conclusive.

ADOPTED this 10th day of November 2014.

President of the Board of Direo

ATTEST:

Secretary of the Board of Directors

2

Water Rate Adjustments Exhibit A

1. <u>Adjustment of Potable Water Rates</u>. Effective January 1, 2015 the District's water rates for all classes of potable consumptive uses other than those hereinafter specifically set forth, including single-family residential, multi-family residential, commercial, industrial and institutional customers (defined to include schools as well as State, Federal and local governmental entities), will be adjusted and will receive four additional adjustments each 12 months thereafter, to correspond to the following rate schedule:

Meter Size	2015	2016	2017	2018	2019
5/8"	\$25.36	\$25.36	\$28.68	\$30.54	\$32.51
3/4"	\$30.28	\$30.28	\$34.24	\$36.46	\$38.82
1"	\$50.54	\$50.54	\$57.16	\$60.86	\$64.79
1-1/2"	\$102.99	\$102.99	\$116.47	\$124.03	\$132.03
2"	\$161.69	\$161.69	\$182.86	\$194.72	\$207.28
3"	\$484.18	\$484.18	\$547.57	\$583.08	\$620.69
4"	\$950.56	\$950.56	\$1,075.00	\$1,144.72	\$1,218.56
6"	\$1,548.78	\$1,548.78	\$1,751.54	\$1,865.13	\$1,985.44
8"	\$1,736.05	\$1,736.05	\$1,963.32	\$2,090.65	\$2,225.51
10"	\$2,208.71	\$2,208.71	\$2,497.86	\$2,659.86	\$2,831.43

a) Monthly Service Charge (by size of meter):

Plus

HCF	2015	2016	2017	2018	2019
Tier 1: 0 – 20 HCF	\$1.41	\$1.51	\$1.46	\$1.49	\$1.52
Tier 2: 21 – 50 HCF	\$1.79	\$1.92	\$1.85	\$1.89	\$1.93
Tier 3: 51 – 100 HCF	\$2.06	\$2.21	\$2.13	\$2.18	\$2.22
Tier 4: Over 100 HCF	\$2.30	\$2.46	\$2.38	\$2.43	\$2.48

b) Quantity charge per month in dollars per hundred cubic feet (HCF):

- <u>Adjustment of Potable Irrigation Water Rates</u>. Effective January 1, 2015 the District's water rates for potable irrigation customers will be adjusted and will receive four additional adjustments each 12 months thereafter, to correspond to the following rate schedule:
 - 2019 2016 2017 2018 **Meter Size** 2015 5/8" \$25.36 \$25.36 \$28.68 \$30.54 \$32.51 3/4" \$30.28 \$30.28 \$34.24 \$36.46 \$38.82 1" \$50.54 \$50.54 \$57.16 \$60.86 \$64.79 1-1/2" \$102.99 \$102.99 \$116.47 \$124.03 \$132.03 2" \$161.69 \$161.69 \$182.86 \$194.72 \$207.28 3" \$620.69 \$547.57 \$583.08 \$484.18 \$484.18 \$1,218.56 4" \$950.56 \$950.56 \$1,075.00 \$1,144.72 6" \$1,548.78 \$1,751.54 \$1,865.13 \$1,985.44 \$1,548.78 8" \$1,736.05 \$1,736.05 \$1,963.32 \$2,090.65 \$2,225.51 \$2,831.43 10" \$2,208.71 \$2,208.71 \$2,497.86 \$2,659.86
 - a) Monthly Service Charge (by size of meter):

b) Quantity charge per month in dollars per hundred cubic feet:

	2015	2016	2017	2018	2019
Irrigation Rate per HCF	\$1.94	\$2.05	\$2.08	\$2.16	\$2.23

- 3. <u>Adjustment of Non-Potable Irrigation Water Rates</u>. Effective January 1, 2015 the District's water rates for non-potable irrigation customers will be adjusted and will receive four additional adjustments each 12 months thereafter, to correspond to the following rate schedule:
 - a) Monthly Service Charge (by size of meter):

Meter Size	2015	2016	2017	2018	2019
5/8"	\$25.36	\$25.36	\$28.68	\$30.54	\$32.51
3/4"	\$30.28	\$30.28	\$34.24	\$36.46	\$38.82
1"	\$50.54	\$50.54	\$57.16	\$60.86	\$64.79
1-1/2"	\$102.99	\$102.99	\$116.47	\$124.03	\$132.03
2"	\$161.69	\$161.69	\$182.86	\$194.72	\$207.28
3"	\$484.18	\$484.18	\$547.57	\$583.08	\$620.69
4"	\$950.56	\$950.56	\$1,075.00	\$1,144.72	\$1,218.56
6"	\$1,548.78	\$1,548.78	\$1,751.54	\$1,865.13	\$1,985.44
8"	\$1,736.05	\$1,736.05	\$1,963.32	\$2,090.65	\$2,225.51
10"	\$2,208.71	\$2,208.71	\$2,497.86	\$2,659.86	\$2,831.43

Plus

b) Quantity charge per month in dollars per hundred cubic feet:

	2015	2016	2017	2018	2019
Irrigation Rate per HCF	\$0.90	\$0.94	\$0.98	\$1.02	\$1.06

- 4. <u>Adjustment of Fire Hydrant Water Rates</u>. Effective January 1, 2015 the District's water rates for temporary water service from fire hydrants and from other connections for which the District's capacity charges have not been applied will be adjusted and will receive four additional adjustments each 12 months thereafter, to correspond to the following rate schedule:
 - a) Monthly Service Charge (all hydrant meters):

	2015	2016	2017	2018	2019
All hydrant meters	\$161.69	\$161.69	\$182.86	\$194.72	\$207.28

Plus

b) Quantity charge per month in dollars per hundred cubic feet:

HCF	2015	2016	2017	2018	2019
Tier 1: 0 – 20 HCF	\$2.62	\$2.72	\$2.67	\$2.70	\$2.73
Tier 2: 21 – 50 HCF	\$3.00	\$3.13	\$3.06	\$3.10	\$3.14
Tier 3: 51 – 100 HCF	\$3.27	\$3.42	\$3.34	\$3.39	\$3.43
Tier 4: Over 100 HCF	\$3.51	\$3.67	\$3.59	\$3.64	\$3.69

- 5. <u>Adjustment of Private Fire Protection Water Rates</u>. Effective January 1, 2015 the District's water rates for private fire protection service will be established and will thereafter receive four additional adjustments each 12 months, as follows:
 - a) Monthly Private Fire Protection Standby Service Charge of \$29.00.

Plus

b) Unauthorized use of private fire lines for non-fire protection use will result in a quantity charge per each HCF (hundred cubic feet) used without proper authorization from the District. The quantity charge (in dollars per hundred cubic feet) is:

	2015	2016	2017	2018	2019
First Unauthorized Use (per HCF)	\$6.90	\$7.38	\$7.14	\$7.29	\$7.44
Subsequent Unauthorized Use (per HCF)	\$23.00	\$24.60	\$23.80	\$24.30	\$24.80

- 6. <u>Water Pass-Through Adjustments</u>. Should the charges paid by the District to another party for water supplied to the District be increased or decreased, the District's Board of Directors may, by resolution, approve recalculated water rates to pass through the changes in such charges. If this occurs, the pass-through rate adjustment will not require a public hearing by the District's Board of Directors. At least 30 days before the effective date of the pass-through rate adjustment the District will inform its customers of the recalculated pass-through rate, which will be calculated to include the increases or decreases in such charges divided by projected water deliveries to customers. This recalculation of the rate will be applied as appropriate to the District's different customer classes in the manner set forth in this resolution.
- 7. <u>Subsequent Adjustments</u>. Following the above rate adjustments that become effective on January 1, 2019, the water rates then in effect will remain in effect until such later time as the District's Board of Directors takes steps required by Article XIII D of the California Constitution and other applicable law then in effect to further adjust the District's water rates.

CERTIFICATION

I, Julie B. Saba, Secretary of the Board of Directors of Jurupa Community Services District, certify that the foregoing resolution was adopted by the Board of Directors at a regular meeting held on the 10th day of November 2014, by the following vote of the Directors:

- AYES: Betty A. Anderson, Jane F. Anderson, Robert Craig
- **NOES:** Chad Blais
- ABSENT: Kenneth J. McLaughlin

ABSTAINED: None

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of Jurupa Community Services District this 10th day of November 2014.

Secretary of the Board of Directors

(SEAL)

RESOLUTION NO. 2512

RESOLUTION OF THE BOARD OF DIRECTORS OF JURUPA COMMUNITY SERVICES DISTRICT ESTABLISHING RATES FOR SEWER SERVICE

WHEREAS, Jurupa Community Services District ("District") has engaged the services of a professional rate consultant, Municipal & Financial Services Group ("Rate Consultant"), to perform a study of the District's rates and charges for water and sewer services; and

WHEREAS, the District's Rate Consultant has provided a report to the District entitled "Comprehensive Water and Sewer Rate Study" recommending revisions to the District's rates and charges for water and sewer services, which has been posted on the District's internet web page and has been available for public review since September 2014; and

WHEREAS, this Board has also conducted a series of public workshops to consider the proposed adjustments to the District's water and sewer rates and to consider comments on the proposed rates; and

WHEREAS, pursuant to the requirements of Article XIIID, Section 6 of the California Constitution, the District provided mailed notice of the proposed water and sewer rates to all property owners and customers who would be affected by said rates, advising them of a public hearing to be conducted by this Board on November 10, 2014, and the opportunity to protest the proposed rates in writing, which notice was mailed more than 45 days prior to the public hearing; and

WHEREAS, on November 10, 2014, this Board conducted a public hearing on the proposed rates as provided in the notice mailed to property owners and to customers who would be affected by the rates, considered all written protests to the proposed rates filed with the District prior to the conclusion of the public hearing, and has determined that the written protests filed with the District represent fewer than 50% of the number of parcels that would be affected by the proposed rates; and

WHEREAS, this Board has determined that the rates for sewer service proposed in the study are necessary in order to cover actual costs incurred by the District in providing sewer service to its customers and will not produce revenues in excess of costs of such service.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of Jurupa Community Services District hereby approves the adjusted rates for sewer service set forth on Exhibit "A," attached hereto, effective January 1, 2015.

BE IT FURTHER RESOLVED that the District's General Manager is hereby authorized to request a determination by this Board of Directors regarding the appropriate rate classification to be applied to any customer of the District, which determination shall be final and conclusive.

ADOPTED this 10th day of November 2014.

President of the Board of Direo

ATTEST:

Secretary of the Board of Directors

Sewer Rate Adjustments Exhibit A

SECTION 1. Domestic/Non-Industrial Sewer Service Fees

- 1) The District's sewer rate structure applicable to domestic single family, multi-family, institutional (defined to include schools as well as State, Federal and local governmental entities) and non-industrial customers shall be comprised of two components: (a) a Monthly Base Service Charge to be applied without regard to the quantity of water supplied to the customer; and (b) an HCF Quantity Charge utilizing the total quantity of water supplied to the customer during the month, with one HCF equal to 748 gallons. Effective January 1, 2015 the District's sewer rates will be adjusted and will receive four additional adjustments each 12 months thereafter, to correspond to the following rate schedule:
 - a) Monthly Base Service Charge. The Monthly Base Service Charge shall be a fixed charge per Equivalent Dwelling Unit ("EDU"), with one EDU equal to 280 gallons per day. The Monthly Base Service Charge will correspond to the following schedule:

			2017		
Service charge per EDU	\$23.95	\$23.95	\$24.89	\$25.39	\$25.90

b) **HCF Quantity Charge (in dollars per hundred cubic feet).** The HCF Quantity Charge shall be a unit charge applied to an estimate of the quantity of sewage a customer will discharge into the sewage collection system each month. The quantity of sewage discharged each month shall be calculated using the total monthly water usage. In order to adjust for water delivered to the residential customers that may be used for irrigation purposes, and therefore is not discharged into the sewer, the maximum quantity of water considered for purposes of applying the HCF Quantity Charge for residential, multifamily and institutional customers shall not exceed 8 HCF per month per EDU. In cases where outdoor irrigation water is delivered through a separate connection, all of the water delivered through the meter measuring water for indoor use will be subject to the HCF Charge. In some instances, the District may utilize a sewer flow meter to measure the quantity of wastewater discharged to the sewer. The HCF Quantity Charge will correspond to the following schedule:

				2018	
Rate per HCF	\$1.51	\$1.61	\$1.57	\$1.60	\$1.64

- c) For non-industrial customers which are not residences, such as markets, office buildings,, churches, and meeting halls where water used by the facility is discharged directly into the sewer, the sewer rate shall be the same as that charged to residential customers except that the 8 HCF limit on the HCF Quantity Charge for residential service shall not apply. The same Monthly Base Service Charge will apply as applicable to residences.
- d) Water that is used exclusively for irrigation or other purposes where the water is not discharged into the sewer, and is separately metered, will not be subject to a charge for sewer service.

SECTION 2. Industrial Sewer Service Fees

1) The term "industrial wastewater" as used herein shall mean wastewater containing industrial process wastes, including all wastewater from any producing, manufacturing, processing or treatment process. The term "industrial waste discharger" shall mean a customer of the District that introduces industrial wastewater into the District's sewer system. For industrial waste dischargers, the District's HCF and Treatment Charge rates shall differ by the entity responsible for providing treatment of the waste collected by the District. The three treatment agencies that provide treatment of wastes for the District are Orange County Sanitation District ("OCSD"), City of Riverside ("Riverside") and the Western Riverside County Regional Wastewater Authority ("WRCRWA"). Each treatment agency has a different rate structure for treatment of industrial wastes generated by the District and charges the District differently for treatment of these industrial waste discharges. The District shall allocate and pass these charges through to the industrial waste dischargers producing these discharges in accordance with how the District is charged for these discharges, in addition to billing the industrial dischargers for the District's own collection charges, as follows. Charges applied to volume, or "flow," shall be as metered by the District. Effective January 1, 2015 the District's Industrial Sewer Service Fees will be adjusted and will receive four additional adjustments each 12 months thereafter, to correspond to the following rate schedule:

a) Discharges Treated by OCSD

i. <u>Monthly Base Service Charge</u>. Each industrial waste discharger shall pay the same Monthly Base Service Charge per EDU per month as that applicable to non-industrial customers. The Monthly Base Service Charge will correspond to the following schedule:

	2015	2016	2017	2018	2019
Service charge per EDU	\$23.95	\$23.95	\$24.89	\$25.39	\$25.90

- ii. Treatment Charge. The District contracts with Western Municipal Water District ("WMWD") to convey, treat and dispose of industrial waste discharged into the District's sewage collection system in areas of the District that discharge to the Inland Empire Brine Line (most notably, Community Facilities District No. 1). WMWD has contracted with the Santa Ana Watershed Project Authority ("SAWPA") for the use of the Inland Empire Brine Line to transport this industrial waste to OCSD, and SAWPA in turn has contracted with OCSD for the treatment and disposal of this industrial waste. WMWD measures the quantity of waste which the District delivers to the Inland Empire Brine Line, in millions of gallons per day ("MGD"); and also samples the quality of the waste which the District delivers to the Inland Empire Brine Line, testing for biochemical oxygen demand ("BOD") and for total suspended solids ("TSS") and Hardness. BOD and Hardness are combined with TSS in a formula to allocate an Inland Empire Brine Line TSS Imbalance, and they are measured in thousands of pounds. WMWD and SAWPA also reconcile the quantity and quality of the wastewater contributed by all users to the actual quantity and quality measured at the final measuring point on a monthly basis. WMWD then bills the District monthly for the following constituents, flows, fixed costs, and charges for the industrial waste which the District delivers to WMWD for treatment and disposal:
 - BOD, per 1,000 pounds;
 - TSS, per 1,000 pounds;
 - Flow, per million gallons;
 - Fixed treatment costs, per MGD;
 - Fixed pipeline costs, per MGD;
 - Sampling charges, per sample station; and
 - Excess flows, per gallon of flow in excess of the quantity which the District has the right to deliver to WMWD by contract with WMWD.

As of the date of adoption of this resolution, the charges paid by the District to WMWD for treatment and disposal of the industrial waste delivered by the District are as set forth below:

BOD/1,000 lbs	TSS/1,000 lbs	Flow per Million Gallons	Fixed Treatment	Fixed Pipeline	Sampling	Excess Flow	Adjustments
\$295/ 1,000 lbs	\$412/ 1,000 lbs	\$1,016	\$11,369/ MGD/Mo	\$6,114/ MGD	\$589 – \$1,468 for each Weekly, Monthly, Quarterly, Semi- Annual and Annual Sample	\$0.1809 / Gallon of Excess Average Daily Flow	Monthly reconciliation for quality and quantity between meter stations and final monitoring station

Currently the above treatment charges are reviewed and may be revised by WMWD on an annual basis (but not to exceed an increase of more than 30%). WMWD's charges are passed through to the District's industrial waste dischargers as the Treatment Charge as follows:

The District utilizes water meters to calculate the volume of discharge contributed to the sewer system by industrial users. Some industrial waste dischargers have also installed sewer flow meters to measure the volume of waste discharged. The District periodically samples industrial waste discharge based on the relative strength and volume of the discharge produced by an industrial waste discharger or class of industrial waste dischargers (such as warehouses). Based upon those measurements and samples, the District calculates the industrial waste discharger's proportionate share of the charges imposed by WMWD to the District for treatment and disposal of industrial waste discharges. As adjustments are subsequently made to WMWD's charges, such adjustments shall likewise be passed along to the industrial waste discharger on a proportionate basis, in subsequent invoices from the District as described above. The Treatment Charge will be proportionally allocated to each industrial waste discharger based upon the 12 month rolling average of WMWD charges to the District and the 12 month rolling average of the flow, BOD, TSS, and Hardness contribution of the industrial waste discharger. The Fixed Monthly Base Service Charge and Treatment Charge shall be included as line items in the monthly water and sewer bills and will be adjusted on a quarterly basis.

iii) <u>Rate Stabilization Fund</u>. In addition to the WMWD charges, the District also adds a Rate Stabilization Fund charge to the Treatment Charge to stabilize rates for industrial users. The total District-wide annual Rate Stabilization Fund charge will be evaluated on an annual basis and is currently \$100,000. This charge will be allocated among industrial waste dischargers based on their proportionate shares of the charges imposed by WMWD to the District. The rate stabilization charge is included in the calculation for the Treatment Charge for the industrial users who discharge to the OCSD and is added to the Treatment charges calculated under section 2 (1) (a) (ii). The revenue derived from the Rate Stabilization Fund will be applied by the District to help offset the pass-through of increases in charges for treatment by OCSD that would have occurred otherwise.

b. Discharges Treated by Riverside

i. <u>Monthly Base Service Charge</u>. Each industrial waste discharger shall pay the same Monthly Base Service Charge per EDU per month as that applicable to non-industrial customers. The Monthly Base Service Charge will correspond to the following schedule:

			2017		
Service charge per EDU	\$23.95	\$23.95	\$24.89	\$25.39	\$25.90

ii. <u>HCF Charge</u>. The HCF Charge will be a charge per HCF (hundred cubic feet) of industrial waste discharged into the sewage collection system each month, measured by the quantity of water delivered to the discharger except as otherwise provided hereinafter. The charge per HCF will be the same as that charged to residential customers, but will not be capped at 8 HCF. The HCF Charge will correspond to the following schedule:

	2015	2016	2017	2018	2019
Rate per HCF	\$1.51	\$1.61	\$1.57	\$1.60	\$1.64

In cases where outdoor irrigation water is delivered through a separate connection, the HCF Charge will be applied only to the quantity of water delivered to the customer for indoor use. In cases where the District has installed a sewer flow meter to measure the volume of waste discharged by a discharger, the HCF Charge will be applied only to the volume of waste measured at that meter.

- iii. <u>Treatment Charge</u>. The District has purchased 4 MGD of capacity in the Riverside treatment facility. Each day Riverside measures the total flow from the District and also tests for levels of TSS and BOD. If total flows, TSS levels or BOD levels exceed the following limits each month, Riverside charges the District for the excess flows and/or excess levels. The following flows and levels are currently allowed each month without additional charge by Riverside:
 - Average flows of up to 120 million gallons per month;
 - Average TSS levels of up to 220 mg per liter ("mg/L") per month;
 - Average BOD levels of up to 230 mg/L per month.

Currently Riverside charges an additional fee of \$1,740.89 per million gallons per month for average flows in excess of 120 million gallons per month; an additional fee of \$0.32 per pound per month for average TSS levels in excess of 220 mg/L per month; and \$0.24 per pound per month for average BOD levels in excess of 230 mg/L per month.

Industrial waste dischargers that discharge to the Regional Water Quality Control Plant "RWQCP", with flows greater than 5,000 gallons per day and with TSS in excess of 220 mg/L or BOD in excess of 230 mg/L, will be subject to a Treatment Charge for excess BOD and TSS. The District periodically samples the quality of the industrial waste from each industrial waste discharger for levels of TSS and BOD. If any sample reveals a concentration of TSS or BOD which exceeds the concentration level allowed by Riverside, as set forth above or as revised by Riverside from time to time, the industrial waste discharger is deemed to have been delivering that same concentration of TSS or BOD since the date of the previous sample. Based on that concentration and the quantity of discharge measured by the quantity of water delivered to the discharger or by the quantity of waste measured by a meter installed to measure the quantity of waste discharged, as the case may be, the District will calculate the excess level of TSS or BOD, in pounds, and will add a Treatment Charge line item in the monthly water and sewer bill. The treatment charge will be calculated based upon a 12-month rolling average of flow, TSS and BOD, and will be charged monthly and updated quarterly. The rate charged for the excess TSS and BOD will be set at the same rates charged by Riverside for excess TSS or BOD levels, but in no event more than 50% greater than the rates identified above.

c. Discharges Treated by WRCRWA

i. <u>Monthly Base Service Charge</u>. Each industrial waste discharger shall pay the same Monthly Base Service Charge per EDU per month as that

applicable to non-industrial customers. The Monthly Base Service Charge will correspond to the following schedule:

				2018	
Service charge per EDU	\$23.95	\$23.95	\$24.89	\$25.39	\$25.90

ii. <u>HCF Charge</u>. The HCF Charge will be a charge per HCF (hundred cubic feet) of industrial waste discharged into the sewage collection system each month, measured by the quantity of water delivered to the discharger except as otherwise provided hereinafter. The charge per HCF will be the same as that charged to residential customers, but will not be capped at 8 HCF. The HCF Charge will correspond to the following schedule:

	2015	2016	2017	2018	2019
Rate per HCF	\$1.51	\$1.61	\$1.57	\$1.60	\$1.64

In cases where outdoor irrigation water is delivered through a separate connection, the HCF Charge will be applied only to the quantity of water delivered to the customer for indoor use. In cases where the District has installed a sewer flow meter to measure the volume of waste discharged by a discharger, the HCF Charge will be applied only to the volume of waste measured at that meter.

iii. <u>Treatment Charge</u>. WRCRWA currently charges only on the basis of flow and not water quality; thus there is no special industrial billing consideration at this time.

SECTION 3. Other Sewer Service Charges

- Sewer Pass-Through Adjustments. Should the charges paid by the District to another party for sewage treatment be increased or decreased, the District's Board of Directors may, by resolution, implement an additional adjustment to the above sewer rates to pass through the changes in such charges. If this occurs, the passthrough rate adjustment will not require a public hearing by the District's Board of Directors. At least 30 days before the effective date of the pass-through rate adjustment the District will inform its customers of the recalculated pass-through rate, which will be calculated to include the increases or decreases in such charges divided by the projected sewer demand. The recalculated rate will be applied to the District's different customer classes in the manner set forth in this resolution.
- 2) <u>Subsequent Adjustments</u>. Following the above rate adjustments that become effective on January 1, 2019, the sewer rates then in effect will remain in effect until

such later time as the District's Board of Directors takes steps required by Article XIII D of the California Constitution and other applicable law then in effect to further adjust the District's sewer rates.

CERTIFICATION

I, Julie B. Saba, Secretary of the Board of Directors of Jurupa Community Services District, certify that the foregoing resolution was adopted by the Board of Directors at a regular meeting held on the 10th day of November 2014, by the following vote of the Directors:

- AYES: Betty A. Anderson, Jane F. Anderson, Robert Craig
- **NOES:** Chad Blais
- ABSENT: Kenneth J. McLaughlin

ABSTAINED: None

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of Jurupa Community Services District this 10th day of November 2014.

of the Board of Directors

(SEAL)

APPENDIX P

ADOPTION RESOLUTION

RESOLUTION NO. 2660

RESOLUTION OF THE BOARD OF DIRECTORS OF JURUPA COMMUNITY SERVICES DISTRICT ADOPTING THE 2015 URBAN WATER MANAGEMENT PLAN

WHEREAS, the California Legislature enacted Assembly Bill 797 (Water Code Section 10610 et seq., known as the Urban Water Management Planning Act) during the 1983-1984 Regular Session, as subsequently amended, which mandates that every supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan; and

WHEREAS, the Urban Water Management Planning Act requires each urban water supplier to update its Urban Water Management Plan at least once every five years on or before December 31, in years ending five and zero; and

WHEREAS, legislation referred to as the Water Conservation Act of 2009 or "SBX7-7" (Water Code, Part 2.55, Section 10608 et seq.), enacted by the California Legislature during the 2009 Extraordinary Session, extended the time by which urban retail water suppliers must adopt their 2015 Urban Water Management Plans until July 1, 2016, and, among other things, established requirements for urban retail water suppliers to prepare interim and urban water use targets for achieving increased water use efficiency by the years 2015 and 2020, in accordance with the goal of SBX7-7 to reduce statewide per capita water use 20 percent by the year 2020; and

WHEREAS, the Jurupa Community Services District (District) provides water service to a population of over 100,000 and is an urban retail water supplier for purposes of the Urban Water Management Planning Act and SBX7-7; and

WHEREAS, in accordance with the Urban Water Management Planning Act and SBX7-7, the District has prepared a 2015 Urban Water Management Plan (Plan) and undertaken certain coordination, notice, public involvement, and other procedures in relation to its Plan; and

WHEREAS, in accordance with applicable law, including Water Code Sections 10608.26 and 10642, and Government Code Section 6066, a properly noticed public hearing regarding said Plan was held by the Board of Directors on June 27, 2016, and the Plan was posted on the District's website two (2) weeks before the hearing; and

WHEREAS, pursuant to said public hearing on the District's Plan, the District, among other things, encouraged the active involvement of diverse social, cultural, and economic elements of the population within the District's service area with regard to the preparation of the Plan, allowed community input regarding the District's implementation plan for complying with SBX7-7, considered the economic impacts of

the District's implementation plan for complying with SBX7-7, and adopted Method 1 under Water Code Section 10608.20(b) for determining its water use targets; and

WHEREAS, the California Department of Water Resources issued a Guidebook to Assist Urban Water Suppliers to Prepare a 2015 Urban Water Management Plan (March 2016) (the "DWR Guidebook") and Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use (For the Consistent Implementation of the Water Conservation Act of 2009) (October 1, 2015) (the "DWR Methodologies") to provide guidance to urban retail water suppliers for purposes of preparing 2015 UWMPs, and the District utilized the DWR Guidebook and the DWR Methodologies in preparing its 2015 UWMP; and

WHEREAS, in accordance with Water Code Section 10620(e), the District has prepared its Plan with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized industry standards and the expertise of industry professionals in preparing its Plan; and

WHEREAS, the District's Board of Directors has reviewed and considered the purposes and requirements of the Urban Water Management Planning Act and SBX7-7, the contents of the 2015 Urban Water Management Plan, and the documentation contained in the administrative record in support of the Plan, and has determined that the factual analyses and conclusions set forth in the Plan are supported by substantial evidence.

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED BY THE BOARD OF DIRECTORS OF JURUPA COMMUNITY SERVICES DISTRICT AS FOLLOWS:

1. The District hereby adopts Target Method 1 under Water Code Section 10608.20(b) for determining its water use targets, and the 2015 Urban Water Management Plan is hereby adopted and ordered filed with the Secretary of the Board.

2. The General Manager is hereby authorized and directed to include a copy of this Resolution in the District's 2015 Urban Water Management Plan and, in accordance with Water Code Section 10644(a), to file the 2015 Urban Water Management Plan with the California Department of Water Resources, the California State Library, and any city or county within which the District provides water supplies within thirty (30) days after this date.

3. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10645, to make the 2015 Urban Water Management Plan available for public review not later than thirty (30) days after filing a copy thereof with the California Department of Water Resources.

4. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2015 Urban Water Management Plan prepared pursuant to Water Code Section 10635(a) to any city or county within which the District provides water supplies not later than sixty (60) days after filing a copy thereof with the California Department of Water Resources.

5. The General Manager is hereby authorized and directed to implement the components of the 2015 Urban Water Management Plan in accordance with the Urban Water Management Planning Act and SBX7-7 including, but not limited to, the District's Water Conservation Programs and its water shortage contingency analysis.

6. The General Manager is hereby authorized and directed to recommend to the Board of Directors additional steps necessary or appropriate to effectively carry out the implementation of the 2015 Urban Water Management Plan.

ADOPTED this 27th day of June 2016.

President of the Board of Directors

ATTEST:

Secretary of the Board of Directors

STATE OF CALIFORNIA)) ss. COUNTY OF RIVERSIDE)

I, Julie B. Saba, Secretary of the Board of Directors of the Jurupa Community Services District, do hereby certify that the above and foregoing is a full, true and correct copy of Resolution No. 2660.

DATED this 28th day of June 2016.

Secretary of the Board of Directors



CERTIFICATION

I, Julie B. Saba, Secretary of the Board of Directors of Jurupa Community Services District, certify that the foregoing resolution was adopted by the Board of Directors at a regular meeting held on the 28th day of June 2016, by the following vote of the Directors:

- AYES: Kenneth J. McLaughlin, Betty A. Anderson, Joan E. Roberts, Jane F. Anderson
- NOES: None
- ABSENT: Chad Blais

ABSTAINED: None

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of Jurupa Community Services District this 28th day of June 2016.

Secretary of the Board of Directors

(SEAL)