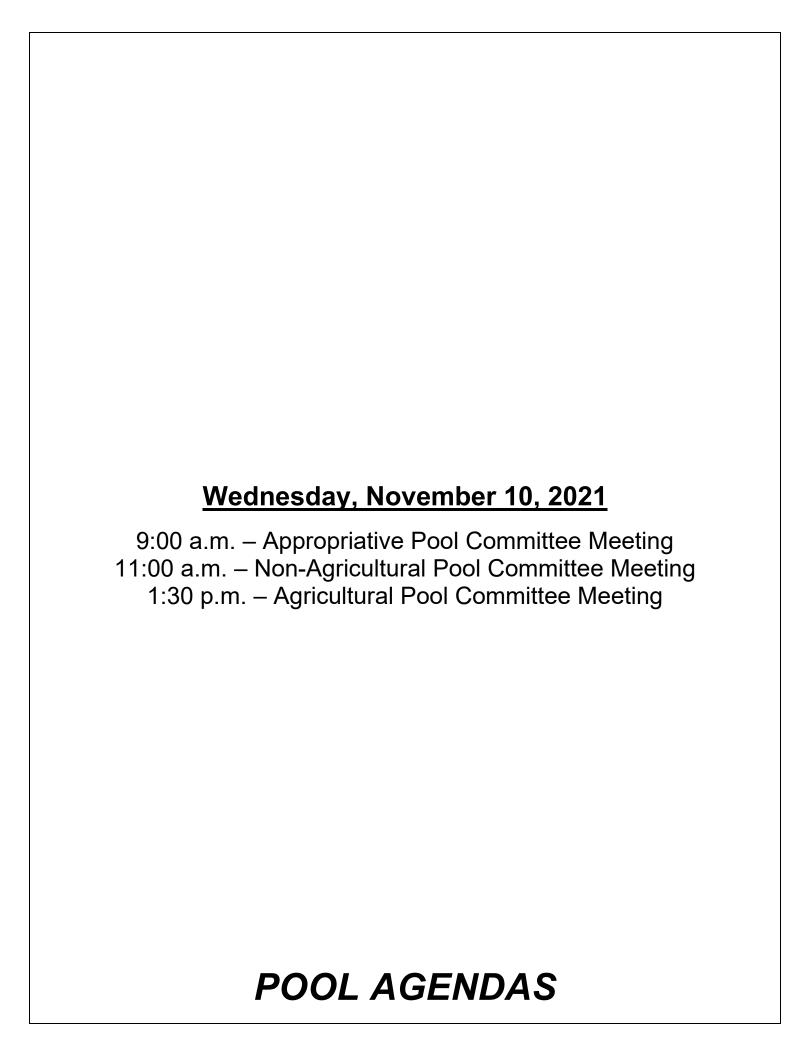


NOTICE OF MEETINGS

Wednesday, November 10, 2021

9:00 a.m. – Appropriative Pool Committee Meeting 11:00 a.m. – Non-Agricultural Pool Committee Meeting 1:30 p.m. – Agricultural Pool Committee Meeting

MEETING AVAILABLE BY REMOTE ACCESS ONLY (SEE AGENDA FOR DETAILS)



CHINO BASIN WATERMASTER APPROPRIATIVE POOL MEETING

9:00 a.m. – November 10, 2021 Mr. John Bosler, Chair Mr. Scott Burton, Vice-Chair

Meeting Available by Remote Access Only*
Click on this link to access by PC/Smart Device

OR

Conference Call: (346) 248-7799 Meeting ID: 868 1522 4578 Passcode: 649197

AGENDA

CALL TO ORDER

ROLL CALL

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

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

A. MINUTES

Approve as presented:

- 1. Minutes of the Appropriative Pool Committee Meeting held October 14, 2021 (Page 1)
- 2. Minutes of the Appropriative Pool Committee Special Meeting held October 28, 2021 (Page 8)

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of September 2021 (Page 29)
- 2. Watermaster VISA Check Detail for the month of September 2021 (Page 42)
- 3. Combining Schedule for the Period July 1, 2021 through September 30, 2021 (Page 45)
- 4. Treasurer's Report of Financial Affairs for the Period September 1, 2021 through September 30, 2021 (*Page 48*)
- 5. Budget vs. Actual Report for the Period July 1, 2021 through September 30, 2021 (Page 52)
- 6. Cash Disbursements for October 2021 (Information Only) (Page 76)

C. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE RECHARGE MASTER PLAN

Recommend to Advisory Committee to recommend to the Watermaster Board to adopt the finding that Watermaster is in substantial compliance with the Recharge Master Plan. (Page 87)

D. 2020/21 ANNUAL REPORT OF THE GROUND-LEVEL MONITORING COMMITTEE (Page 96)

Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the 2020/21 Annual Report of the Ground-Level Monitoring Committee, along with filing a copy with the Court.

E. CALENDAR YEAR 2022 APPROPRIATIVE POOL VOLUME VOTE (Page 198)

Approve the Calendar Year 2022 Appropriative Pool Volume Vote as presented, subject to Watermaster Board approval of the FY 2021/22 Assessment Package at the November 18, 2021 meeting.

II. BUSINESS ITEMS

A. FISCAL YEAR 2021/22 SCOPE AND BUDGET FOR THE SAFE YIELD RESET METHODOLOGY UPDATE (DISCUSSION ONLY) (Page 208)

B. FISCAL YEAR 2021/22 BUDGET AMENDMENT (FORM A-21-11-01) (Page 224)

Recommend to the Advisory Committee to approve the Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01).

C. DRY YEAR YIELD PROGRAM (DISCUSSION ONLY)

D. FISCAL YEAR 2021/22 ASSESSMENT PACKAGE (Page 228)

Review Fiscal Year 2021/22 Assessment Package as presented and offer advice to Watermaster.

E. RESOLUTION TO LEVY REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS FOR FISCAL YEAR 2021/22 (Page 276)

Review Resolution 2021-05 as presented and offer advice to Watermaster.

III. REPORTS/UPDATES

A. LEGAL COUNSEL

- 1. San Bernardino County Superior Court Emergency Order
- 2. November 5, 2021 Hearing
- 3. Rules & Regulations Update
- 4. Evergreen Storage Agreements
- 5. Kaiser Permanente Lawsuit

B. ENGINEER

- 1. Data Collection and Evaluation Workshop #1
- 2. Plan to Mitigate for Loss of Hydraulic Control
- 3. Responses to Storage Questions

C. CHIEF FINANCIAL OFFICER

1. Fiscal Year 2021/22 Assessment Invoicing

D. GENERAL MANAGER

- 1. Personnel and Compensation Items
- 2. Chino Basin Sustainability (Page 328)
- 3. Watermaster's Holiday Charity Event
- 4. December Meetings
- 5. Other

IV. POOL MEMBER COMMENTS

V. OTHER BUSINESS

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

1. Existing Litigation; Ag Expenses Motion and Related Matters

VII. FUTURE MEETINGS AT WATERMASTER*

11/10/21	Wed	9:00 a.m.	Appropriative Pool Committee Meeting**
11/10/21	Wed	11:00 a.m.	Non-Agricultural Pool Committee Meeting**
11/10/21	Wed	1:30 p.m.	Agricultural Pool Committee Meeting**
11/16/21	Tue	1:30 p.m.	Data Collection & Evaluation Workshop No. 1 (Safe Yield)
11/18/21	Thu	9:00 a.m.	Advisory Committee Meeting
11/18/21	Thu	11:00 a.m.	Watermaster Board***
12/07/21	Tue	9:00 a.m.	Groundwater Recharge Coordinating Committee

^{*} Watermaster meetings are being held remotely at this time. We are continuing to assess pandemic conditions and will hold in-person meetings when practical.

ADJOURNMENT

^{**} Advanced to November 10, 2021 due to the Veteran's Day Holiday

^{***} Advanced to November 18, 2021 due to the Thanksgiving Holiday

CHINO BASIN WATERMASTER NON-AGRICULTURAL POOL MEETING

11:00 a.m. – November 10, 2021 Mr. Brian Geye, Chair Mr. Bob Bowcock, Vice-Chair

Meeting Available by Remote Access Only* Click on this link to access by PC/Smart Device

OR

Conference Call: (253) 215-8782 Meeting ID: 899 7100 1268 Passcode: 946825

AGENDA

CALL TO ORDER

ROLL CALL

AGENDA - ADDITIONS/REORDER

I. BUSINESS ITEMS - ROUTINE

A. MINUTES

Receive and file as presented:

1. Minutes of the Non-Agricultural Pool Committee Meeting held October 14, 2021 (Page 13)

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of September 2021 (Page 29)
- 2. Watermaster VISA Check Detail for the month of September 2021 (Page 42)
- 3. Combining Schedule for the Period July 1, 2021 through September 30, 2021 (Page 45)
- 4. Treasurer's Report of Financial Affairs for the Period September 1, 2021 through September 30, 2021 (*Page 48*)
- 5. Budget vs. Actual Report for the Period July 1, 2021 through September 30, 2021 (Page 52)
- 6. Cash Disbursements for October 2021 (Information Only) (Page 76)

C. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE RECHARGE MASTER PLAN

Recommend to Advisory Committee to recommend to the Watermaster Board to adopt the finding that Watermaster is in substantial compliance with the Recharge Master Plan. (Page 87)

D. 2020/21 ANNUAL REPORT OF THE GROUND-LEVEL MONITORING COMMITTEE (Page 96)

Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the 2020/21 Annual Report of the Ground-Level Monitoring Committee, along with filing a copy with the Court.

E. CALENDAR YEAR 2022 NON-AGRICULTURAL POOL VOLUME VOTE (Page 203)

Receive and file the Calendar Year 2022 Overlying (Non-Agricultural) Pool Volume Vote as presented, subject to Watermaster Board approval of the 2021/22 Assessment Package at the November 18, 2021 meeting.

II. BUSINESS ITEMS

A. FISCAL YEAR 2021/22 SCOPE AND BUDGET FOR THE SAFE YIELD RESET METHODOLOGY UPDATE (DISCUSSION ONLY) (Page 208)

B. FISCAL YEAR 2021/22 BUDGET AMENDMENT (FORM A-21-11-01) (Page 224)

Recommend to the Advisory Committee to approve the Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01).

C. DRY YEAR YIELD PROGRAM (DISCUSSION ONLY)

D. FISCAL YEAR 2021/22 ASSESSMENT PACKAGE (Page 228)

Review Fiscal Year 2021/22 Assessment Package as presented and offer advice to Watermaster.

E. RESOLUTION TO LEVY REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS FOR FISCAL YEAR 2021/22 (Page 276

Review Resolution 2021-05 as presented and offer advice to Watermaster.

F. MEMBER STATUS CHANGES

- 1. Any proposed transfer of Safe Yield by a Member.
- 2. Any transfer of Safe Yield that has actually closed or been completed.
- 3. Any change in name or corporate identity of a Member (such as results from a merger or filing of a change of name certificate).
- 4. Any change in the name of a representative or alternate representative of a Member, or a change in e-mail address for either such person.

III. REPORTS/UPDATES

A. LEGAL COUNSEL

- 1. San Bernardino County Superior Court Emergency Order
- 2. November 5, 2021 Hearing
- 3. Rules & Regulations Update
- 4. Evergreen Storage Agreements
- 5. Kaiser Permanente Lawsuit

B. ENGINEER

- 1. Data Collection and Evaluation Workshop #1
- 2. Plan to Mitigate for Loss of Hydraulic Control
- 3. Responses to Storage Questions

C. CHIEF FINANCIAL OFFICER

1. Fiscal Year 2021/22 Assessment Invoicing

D. GENERAL MANAGER

- 1. Personnel and Compensation Items
- 2. Chino Basin Sustainability Report (Page 328)
- 3. Watermaster's Holiday Charity Event
- 4. December Meetings
- 5. Other

IV. POOL MEMBER COMMENTS

V. OTHER BUSINESS

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

1. Exhibit G – Section 9 Transfer Rate

VII. FUTURE MEETINGS AT WATERMASTER*

11/10/21	Wed	9:00 a.m.	Appropriative Pool Committee Meeting**
11/10/21	Wed	11:00 a.m.	Non-Agricultural Pool Committee Meeting**
11/10/21	Wed	1:30 p.m.	Agricultural Pool Committee Meeting**
11/16/21	Tue	1:30 p.m.	Data Collection & Evaluation Workshop No. 1 (Safe Yield)
11/18/21	Thu	9:00 a.m.	Advisory Committee Meeting
11/18/21	Thu	11:00 a.m.	Watermaster Board***
12/07/21	Tue	9:00 a.m.	Groundwater Recharge Coordinating Committee

^{*} Watermaster meetings are being held remotely at this time. We are continuing to assess pandemic conditions and will hold in-person meetings when practical.

ADJOURNMENT

^{**} Advanced to November 10, 2021 due to the Veteran's Day Holiday

^{***} Advanced to November 18, 2021 due to the Thanksgiving Holiday

CHINO BASIN WATERMASTER AGRICULTURAL POOL MEETING

1:30 p.m. November 10, 2021 Mr. Bob Feenstra, Chair Mr. Jeff Pierson, Vice-Chair

Meeting Available by Remote Access Only*
Click on this link to access by PC/Smart Device

OR

Conference Call: (253) 215-8782 Meeting ID: 817 2444 4950 Passcode: 120410

AGENDA

CALL TO ORDER

ROLL CALL

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

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

A. MINUTES

Approve as presented:

- 1. Minutes of the Agricultural Pool Committee Meeting held on October 14, 2021 (Page 18)
- 2. Minutes of the Agricultural Pool Committee Special Meeting held on October 29, 2021 (Page 24)

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of September 2021 (Page 29)
- 2. Watermaster VISA Check Detail for the month of September 2021 (Page 42)
- 3. Combining Schedule for the Period July 1, 2021 through September 30, 2021 (Page 45)
- 4. Treasurer's Report of Financial Affairs for the Period September 1, 2021 through September 30, 2021 (*Page 48*)
- 5. Budget vs. Actual Report for the Period July 1, 2021 through September 30, 2021 (Page 52)
- 6. Cash Disbursements for October 2021 (Information Only) (Page 76)

C. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE RECHARGE MASTER PLAN

Recommend to Advisory Committee to recommend to the Watermaster Board to adopt the finding that Watermaster is in substantial compliance with the Recharge Master Plan (*Page 87*)

D. 2020/21 ANNUAL REPORT OF THE GROUND-LEVEL MONITORING COMMITTEE (Page 96)

Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the 2020/21 Annual Report of the Ground-Level Monitoring Committee, along with filing a copy with the Court.

II. BUSINESS ITEMS

A. FISCAL YEAR 2021/22 SCOPE AND BUDGET FOR THE SAFE YIELD RESET METHODOLOGY UDPATE (DISCUSSION ONLY) (Page 208)

B. FISCAL YEAR 2021/22 BUDGET AMENDMENT (FORM A-21-11-01) (Page 224)

Recommend to the Advisory Committee to approve the Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01).

C. DRY YEAR YIELD PROGRAM (DISCUSSION ONLY)

D. FISCAL YEAR 2021/22 ASSESSMENT PACKAGE (Page 228)

Review Fiscal Year 2021/22 Assessment Package as presented and offer advice to Watermaster.

E. RESOLUTION TO LEVY REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS FOR FISCAL YEAR 2021/22 (Page 276)

Review Resolution 2021-05 as presented and offer advice to Watermaster.

F. OLD BUSINESS

FINANCIAL REPORTS (FROM PRIOR MONTH'S AGENDA)

Receive and file as presented:

- 1. Cash Disbursements for the month of August 2021 (Page 282)
- 2. Watermaster VISA Check Detail for the month of August 2021 (Page 296)
- 3. Combining Schedule for the Period July 1, 2021 through August 30, 2021 (Page 299)
- 4. Treasurer's Report of Financial Affairs for the Period August 1, 2021 through August 30, 2021 (*Page 302*)
- 5. Budget vs. Actual Report for the Period July 1, 2021 through August 30, 2021 (Page 306)

III. REPORTS/UPDATES

A. LEGAL COUNSEL

- 1. San Bernardino County Superior Court Emergency Order
- 2. November 5, 2021 Hearing
- 3. Rules & Regulations Update
- 4. Evergreen Storage Agreements
- 5. Kaiser Permanente Lawsuit

B. ENGINEER

- 1. Data Collection and Evaluation Workshop #1
- 2. Plan to Mitigate for Loss of Hydraulic Control
- 3. Responses to Storage Questions

C. CHIEF FINANCIAL OFFICER

1. Fiscal Year 2021/22 Assessment Invoicing

D. GENERAL MANAGER

- 1. Personnel and Compensation Items
- 2. Chino Basin Sustainability Report (Page 328)
- 3. Watermaster's Holiday Charity Event
- 4. December Meetings
- 5. Other

IV. POOL DISCUSSION

- 1. Chairman's Update
- 2. Pool Member Comments

V. OTHER BUSINESS

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

1. Strategic Planning

VII. FUTURE MEETINGS AT WATERMASTER*

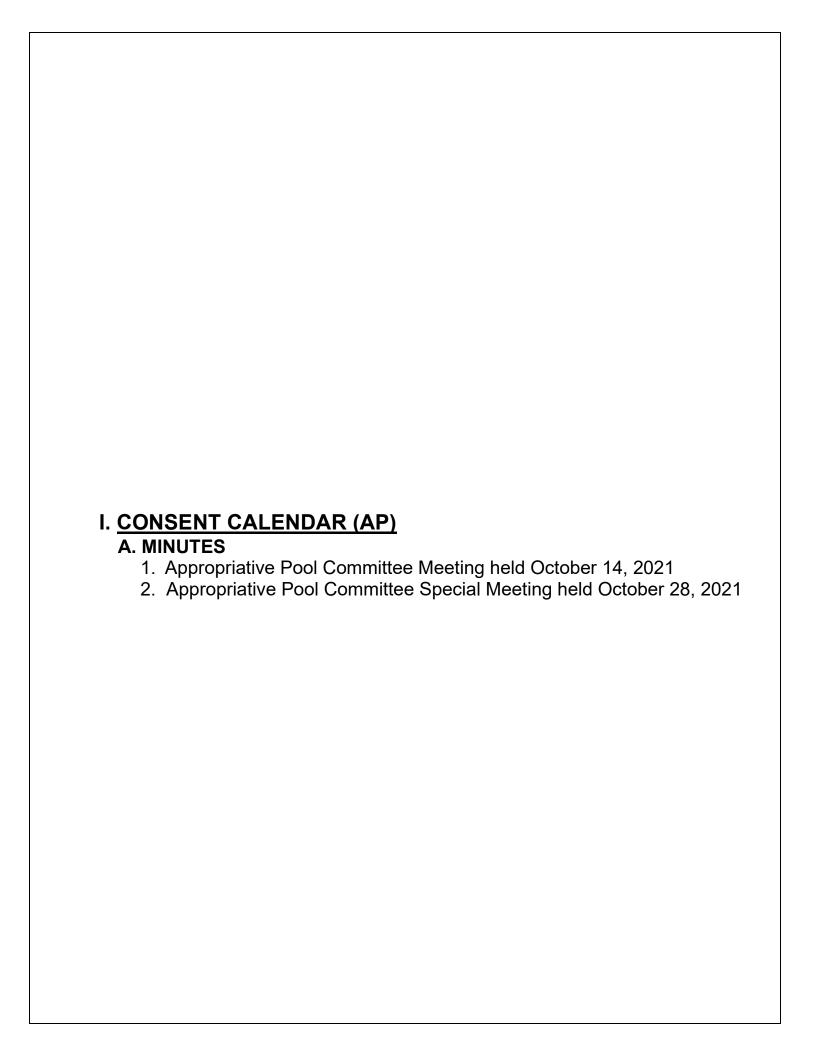
11/10/21	Wed	9:00 a.m.	Appropriative Pool Committee Meeting**
11/10/21	Wed	11:00 a.m.	Non-Agricultural Pool Committee Meeting**
11/10/21	Wed	1:30 p.m.	Agricultural Pool Committee Meeting**
11/16/21	Tue	1:30 p.m.	Data Collection & Evaluation Workshop No. 1 (Safe Yield)
11/18/21	Thu	9:00 a.m.	Advisory Committee Meeting
11/18/21	Thu	11:00 a.m.	Watermaster Board***
12/07/21	Tue	9:00 a.m.	Groundwater Recharge Coordinating Committee

^{*} Watermaster meetings are being held remotely at this time. We are continuing to assess pandemic conditions and will hold in-person meetings when practical.

ADJOURNMENT

^{**} Advanced to November 10, 2021 due to the Veteran's Day Holiday

^{***} Advanced to November 18, 2021 due to the Thanksgiving Holiday



DRAFT MINUTES CHINO BASIN WATERMASTER APPROPRIATIVE POOL COMMITTEE MEETING

October 14, 2021

The Appropriative Pool Committee meeting was held via Zoom (conference call and web meeting) on October 14, 2021.

APPROPRIATIVE POOL COMMITTEE MEMBERS PRESENT

John Bosler, Chair Cucamonga Valley Water District

Bob Bowcock* BlueTriton Brands, Inc.

Bob Bowcock*

CalMat Co.

City of Chino

City of Chino Hills

Courtney Jones for Scott Burton

Chris Diggs

Braden Yu

CalMat Co.

City of Chino

City of Chino Hills

City of Ontario

City of Pomona

City of Upland

Josh Swift Fontana Union Water Company
Cris Fealy Fontana Water Company

Chris Berch
Justin Scott-Coe
Justin Scott-Coe
Justin Scott-Coe
Justin Scott-Coe
Monte Vista Irrigation Company
Monte Vista Water District
Nicholson Family Trust
Brian Lee
John Lopez
San Antonio Water Company
Santa Ana River Water Company

Braden Yu West End Consolidated Water Company

WATERMASTER BOARD MEMBERS PRESENT ON CALL

Bob Kuhn Three Valleys Municipal Water District
Mike Gardner Western Municipal Water District

WATERMASTER STAFF PRESENT ON CALL

Peter Kavounas General Manager
Joseph Joswiak Chief Financial Officer

Edgar Tellez Foster Water Resources Mgmt. & Planning Dir.

Anna Nelson Executive Services Director

Justin Nakano Water Resources Technical Manager

Frank Yoo Data Services and Judgment Reporting Mgr.

Vanessa Aldaz Administrative Assistant

WATERMASTER CONSULTANTS PRESENT ON CALL

Brad Herrema Brownstein Hyatt Farber Schreck, LLP

Andy Malone West Yost

OTHERS PRESENT ON CALL

Nicole deMoet City of Upland

Luis CetinaCucamonga Valley Water DistrictEduardo EspinozaCucamonga Valley Water DistrictRob HillsCucamonga Valley Water DistrictKevin KenleyCucamonga Valley Water DistrictGidti LudesirishotiCucamonga Valley Water DistrictJiwon SeungCucamonga Valley Water District

Tarren Torres Egoscue Law Group, Inc.
Joshua Aguilar Inland Empire Utilities Agency

Bill Schwartz
Jeff Davis
Todd Minten
Pete Hall
David De Jesus

Monte Vista Water District Provost & Pritchard Consulting Group Santa Ana River Water Company State of California – CIM Three Valleys Municipal Water District

CALL TO ORDER

Chair Bosler called the Appropriative Pool Committee meeting to order at 9:10 a.m.

ROLL CALL

(0:00:20) Ms. Aldaz conducted the roll call and announced that a quorum was present.

AGENDA - ADDITIONS/REORDER

None

I. CONSENT CALENDAR

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

A. MINUTES

Approve as presented:

- 1. Minutes of the Appropriative Pool Committee Meeting held September 9, 2021
- 2. Minutes of the Appropriative Pool Committee Special Meeting held September 16, 2021

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of August 2021
- 2. Watermaster VISA Check Detail for the month of August 2021
- 3. Combining Schedule for the Period July 1, 2021 through August 31, 2021
- 4. Treasurer's Report of Financial Affairs for the Period August 1, 2021 through August 31, 2021
- 5. Budget vs. Actual Report for the Period July 1, 2021 through August 31, 2021
- 6. Cash Disbursements for the month of September 2021

C. APPLICATION: WATER TRANSACTION

Provide advice and assistance to the Advisory Committee on the proposed transaction:

The transfer of 1,000.0 acre-feet of water from Santa Ana River Water Company to Blue Triton Brands, Inc. This transfer is made from Santa Ana River Water Company's Excess Carryover Account.

(0:02:53) A roll call vote was taken.

Motion by Mr. Ron Craig, seconded by Mr. Chris Diggs, and passed by unanimous roll call vote as attached to these minutes.

Moved to approve the Consent Calendar as presented.

^{*}Joined after confidential session and did not cast vote.

II. BUSINESS ITEMS

A. TASK ORDER NO. 6 UNDER MASTER AGREEMENT FOR COLLABORATIVE PROJECTS: LOSS OF HYDRAULIC CONTROL MITIGATION PLAN UPDATE

Recommend Advisory Committee approval of Task Order No. 6 as presented.

(0:05:33) Mr. Kavounas introduced Mr. Tellez Foster, who gave a report.

(0:07:56)

Motion by Mr. Chris Berch, seconded by Mr. Chris Diggs; there were no objections, and no vote was taken.

Moved to recommend Advisory Committee approval of Business Item II.A., Task Order No. 6 as presented.

B. FISCAL YEAR 2021/22 BUDGET AMENDMENT (FORM A-21-10-01)

Recommend to the Advisory Committee to approve the Fiscal Year 2021/22 Budget Amendment (Form A-21-10-01).

(0:08:48) Mr. Kavounas gave a report.

(0:09:20)

Motion by Mr. Justin Scott-Coe, seconded by Mr. Cris Fealy; there were no objections, and no vote was taken.

Moved to recommend Advisory Committee approval of Business Item II.B., the Fiscal Year 2021/22 Budget Amendment (Form A-21-10-01).

III. REPORTS/UPDATES

A. LEGAL COUNSEL

- 1. San Bernardino County Superior Court Emergency Order
- 2. October 8, 2021 Hearing
- 3. Rules & Regulations Update
- 4. Evergreen Storage Agreements
- 5. Kaiser Permanente Lawsuit

(0:10:07) Mr. Herrema gave a report.

B. ENGINEER

- 1. Ground-Level Monitoring Committee Update
- 2. Annual Streamflow Monitoring Report
- 3. Safe Yield Reset Methodology Workshop

(0:13:18) The Pool Committee opted to receive the Engineer Report next week during the Advisory Committee meeting. Mr. Malone reminded the Appropriative Pool that written comments for the Ground-Level Monitoring Committee Annual Report were due by tomorrow and that the Safe Yield Methodology Peer Review Workshop would be held on October 26, 2021 at 1:30pm.

C. CHIEF FINANCIAL OFFICER

None

D. GENERAL MANAGER

- 1. Chino Basin Management Board Discussion (Workshop)
- 2. Storage Q&A
- 3. Drinking Water Well Principles and Strategies
- 4. Other

(0:14:26) Mr. Kavounas gave a report. A discussion ensued.

IV. POOL MEMBER COMMENTS

None

V. OTHER BUSINESS

None

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

Chair Bosler called for a confidential session at 9:32 a.m. to discuss the following:

- 1. October 8 Court Hearing
- 2. AP Budget
- 3. Strategic Planning

(0:22:06) Confidential session concluded at 11:00 a.m. with the following reportable action reported out by Mr. Espinoza, on behalf of Chair Bosler:

Motion passed by majority vote with the City of Ontario, Monte Vista Water District, and Monte Vista Irrigation Company voting against.

The Appropriative Pool approved a legal budget of \$200,000 for this fiscal year; a commitment by AP members to meet on clarifying the use of legal counsel and consultants; legal counsel expenses will be assessed semi-annually; and authorization of AP chair to negotiate legal counsel's rate.

ADJOURNMENT

Mr. Espinoza, on behalf of Chair Bosler, adjourned the Appropriative Pool Committee meeting at 11:02 a.m.

	Secretary:
Approved:	

Attachments:

- 1. 20211014 Roll Call Vote Outcome for the Consent Calendar
- 2. 20211014 Reportable Action out of Confidential Session as provided by Pool Leadership

October 14, 2021 Appropriative Pool Committee Meeting Roll Call Vote Outcome for Consent Calendar

Agency	Member	Alternate	Consent Calendar
BlueTriton Brands, Inc.	Sage, Kevin		
,		Bowcock, Bob	
CalMat Co.	Sage, Kevin	Davisant Dah	
	Craig, Ron	Bowcock, Bob	V00
City of Chino Hills	Ordig, 11011	Wiley, Mark	yes
	Crosley, Dave	3,	yes
Other of Ohio	·	Coker, Amanda	Í
City of Chino		Jakher, Amer	
		Castro, Vivian	
	Bosler, John, Chair		yes
Cucamonga Valley Water District		Espinoza, Eduardo	·
		Krishnan, Praseetha	
	Swift, Josh		yes
Fontana Union Water Company		Tarango, Eric	
		Zielke, Seth	
Fontana Water Company	Fealy, Cris		yes
Fontana Water Company		Tarango, Eric	
City of Fontana	Kramer, Keith		
City of Fontana		Martinez, Armando	
Goldon State Water Company	Lewis, Ben		
Golden State Water Company		Moore, Toby	
	Berch, Chris		yes
Jurupa Community Services District		Letulle, Chander	
		Popelar, Steven	
Manygold Mutual Water Company	Andrews, Steven		
Marygold Mutual Water Company		Brokaw, Justin	
Monto Viota Irrigation Company	Scott-Coe, Justin		yes
Monte Vista Irrigation Company		Reimer, Stephanie	
Monte Vista Water District	Scott-Coe, Justin		yes
Wionte vista Water District		Reimer, Stephanie	
NCL Co., LLC	Bowcock, Bob		
NOL 00., LL0		Sage, Kevin	
Niagara Bottling Company	Kamansky, Geoffrey		
Magara Botting Company		Hooks, Cassandra	
Nicholson Family Trust	Fealy, Cris		yes
THOROGOTT army Trust		Swift, Josh	
City of Norco	Blais, Chad		
en, e. 116.65		Nelson, Sam	
City of Ontario	Burton, Scott, Vice Chair		
ony or ornano		Jones, Courtney	yes
City of Pomona	Diggs, Chris		yes
en, en emena		Horton, Nichole	
San Antonio Water Company	Lee, Brian		yes
		Layton, Teri	
County of San Bernardino	Raughley, Steven		
, <u></u>		Meere, Amanda	
Santa Ana River Water Company	Lopez, John		yes
- 1 7		Minten, Todd	
	Yu, Braden		yes
City of Upland		Ledbetter, Steven	
		deMoet, Nicole	
West End Consolidated Water Co.	Yu, Braden		yes
*		Ledbetter, Steven	
		deMoet, Nicole	
	Manbahal, Rickey S.		
West Valley Water District		Jew, Van	
		Chan, Joanne	
			Passed Unanimously by
		OUTCOME	those present

Anna Nelson

From: Eduardo Espinoza <Eduardo E@cvwdwater.com>

Sent: Thursday, October 14, 2021 11:18 AM

To: Anna Nelson; John Bosler; Scott Burton (sburton@ontarioca.gov); Courtney Jones - City of Ontario

(cjjones@ontarioca.gov); John Schatz (Jschatz13@cox.net)

Cc: Vanessa Aldaz; Frank Yoo; Peter Kavounas

Subject: RE: Please REPLY ALL when out of Confidential Session

Hi Anna,

Here are the details of today's AP confidential session reportable action:

The Appropriative Pool approved a legal budget of \$200,000 for this fiscal year; a commitment by AP members to meet on clarifying the use of legal counsel and consultants; legal counsel expenses will be assessed semi-annually; and authorization of AP chair to negotiate legal counsel's rate.

No votes: Ontario, MVWD, MVIC

Please let John or I know if you have any questions. Thanks!

Eduardo

Eduardo Espinoza, PE Assistant General Manager Cucamonga Valley Water District 909-987-2591

From: Eduardo Espinoza

Sent: Thursday, October 14, 2021 10:54 AM

To: Anna Nelson <a truongnelson@cbwm.org>; John Bosler <JohnB@cvwdwater.com>; Scott Burton (sburton@ontarioca.gov) <sburton@ontarioca.gov>; Courtney Jones - City of Ontario (cjjones@ontarioca.gov) <cjjones@ontarioca.gov>

Cc: Vanessa Aldaz <valdaz@cbwm.org>; Frank Yoo <FrankY@cbwm.org>; Peter Kavounas <PKavounas@cbwm.org> **Subject:** RE: Please REPLY ALL when out of Confidential Session

Hi Anna

We're ready to come back to open session. Let me know when ready. I'll be coming in for John. Thanks!

Eduardo

Eduardo Espinoza, PE Assistant General Manager Cucamonga Valley Water District 909-987-2591

From: Anna Nelson <a truongnelson@cbwm.org>
Sent: Thursday, October 14, 2021 9:35 AM

To: John Bosler < <u>JohnB@cvwdwater.com</u>>; Eduardo Espinoza < <u>EduardoE@cvwdwater.com</u>>; Scott Burton (<u>sburton@ontarioca.gov</u>) < <u>sburton@ontarioca.gov</u>>; Courtney Jones - City of Ontario (<u>cjjones@ontarioca.gov</u>) < <u>cjjones@ontarioca.gov</u>>

Cc: Vanessa Aldaz <<u>valdaz@cbwm.org</u>>; Frank Yoo <<u>FrankY@cbwm.org</u>>; Peter Kavounas <<u>PKavounas@cbwm.org</u>> **Subject:** Please REPLY ALL when out of Confidential Session

Thank you! Anna

Anna Truong Nelson, CAP, OM, TA

Executive Services Director Board Clerk Chino Basin Watermaster 9641 San Bernardino Road Rancho Cucamonga, CA 91730

Office: 909.484.3888 Fax: 909.484.3890 Web: <u>www.cbwm.org</u>



Driven, Collaborative Professionals

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DRAFT MINUTES CHINO BASIN WATERMASTER APPROPRIATIVE POOL COMMITTEE – SPECIAL MEETING

October 28, 2021

The Appropriative Pool Committee special meeting was held via conference call on October 28, 2021.

APPROPRIATIVE POOL COMMITTEE MEMBERS PRESENT ON CALL

John Bosler, Chair Cucamonga Valley Water District

Dave CrosleyCity of ChinoRon CraigCity of Chino HillsChris DiggsCity of PomonaBraden YuCity of Upland

Cris Fealy

Ben Lewis
Chris Berch
Justin Scott-Coe
Justin Scott-Coe
Justin Scott-Coe
Monte Vista Irrigation Company
Monte Vista Water District
Mich sleep Feesily Trust

Cris Fealy

Brian Lee

John Lopez

Nicholson Family Trust

San Antonio Water Company

Santa Ana River Water Company

Braden Yu West End Consolidated Water Company

OTHERS PRESENT ON CALL

Amanda Coker City of Chino
Eunice Ulloa City of Chino
Nicole deMoet City of Upland

Eduardo Espinoza

Gidti Ludesirishoti

Jiwon Seung

Mark Gibboney

Jim Curatalo

Shawnda Grady

Cucamonga Valley Water District

Fontana Union Water Company

Ellison Schneider Harris & Donlan LLP

Stephanie Reimer Monte Vista Water District
Bill Schwartz Monte Vista Water District

Fred Fudacz Nossaman LLP Gina Nicholls Nossaman LLP

Jimmy Gutierrez, A Law Corporation

John Schatz John J. Schatz, Attorney at Law Todd Minten Santa Ana River Water Company

CALL TO ORDER

Chair Bosler called the Appropriative Pool Committee special meeting to order at 9:00 a.m.

AGENDA – ADDITIONS/REORDER

None

I. CONFIDENTIAL SESSION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

Chair Bosler called the Appropriative Pool Committee special meeting to order at 9:00 a.m. to discuss Ag Expenses Motion.

Confidential session concluded at 10:50 a.m. with the following reportable action as provided by Pool leadership:

Reportable action: AP Chair will communicate with Ag Pool representatives regarding their most recent legal expenses proposal.

ADJOURNMENT

Chair Bosler adjourned the Appropriative Pool Committee special meeting at 10:50 a.m.

	Secretary:
Approved:	_

Attachment:

1. 20211028 Appropriative Pool Committee Special Meeting Attendance (as provided by Pool Leadership)

Anna Nelson

From: Eduardo Espinoza <Eduardo E@cvwdwater.com>

Sent: Thursday, October 28, 2021 2:06 PM

To: Anna Nelson; John Bosler; Scott Burton (sburton@ontarioca.gov); John Schatz (jschatz13@cox.net)

Cc: Courtney Jones - City of Ontario (cjjones@ontarioca.gov)

Subject: RE: NOTICE: October 28, 2021 9:00am Appropriative Pool Committee Special Meeting (Confidential Session Only - Held Via Conference Call)

Hi Anna,

Reportable action: AP Chair will communicate with Ag Pool representatives regarding their most recent legal expenses proposal.

Attendance:

- 1. Amanda Coker
- 2. Ben Lewis
- 3. Bill Schwartz
- 4. Braden Yu
- 5. Brian Lee
- 6. Chris Berch
- 7. Chris Diggs
- 8. Cris Fealy
- 9. Dave Crosley
- 10. Eduardo Espinoza
- 11. Eunice Ulloa
- 12. Fred Fudacz (Ontario)
- 13. Gidti Ludesirishoti
- 14. Gina Nicholls
- 15. Jim Curatalo
- 16. Jimmy Gutierrez (Chino)
- 17. Jiwon Seung
- 18. John Bosler
- 19. John Lopez
- 20. John Schatz
- 21. Justin Scott-Coe
- 22. Mark Gibboney
- 23. Nicole deMoet
- 24 D
- 24. Ron Craig
- 25. Shawnda Grady
- 26. Stephanie Reimer
- 27. Todd Minten

Adjourn 10:50am.

Thanks!

Eduardo

Eduardo Espinoza, PE Assistant General Manager Cucamonga Valley Water District 909-987-2591

From: Anna Nelson <atruongnelson@cbwm.org>

Sent: Thursday, October 28, 2021 1:17 PM

To: John Bosler < JohnB@cvwdwater.com>; Scott Burton (sburton@ontarioca.gov) < sburton@ontarioca.gov>; John Schatz (jschatz13@cox.net)

<jschatz13@cox.net>

Cc: Eduardo Espinoza <EduardoE@cvwdwater.com>; Courtney Jones - City of Ontario (cjjones@ontarioca.gov) <cjjones@ontarioca.gov>

Subject: RE: NOTICE: October 28, 2021 9:00am Appropriative Pool Committee Special Meeting (Confidential Session Only - Held Via Conference Call)

Good afternoon, all.

When you have a moment, please send me any reportable action, attendance, and adjournment time from this morning's special meeting.

Thank you,

Anna

From: Anna Nelson

Sent: Friday, October 22, 2021 1:49 PM **To:** Anna Nelson atruongnelson@cbwm.org

Subject: NOTICE: October 28, 2021 9:00am Appropriative Pool Committee Special Meeting (Confidential Session Only - Held Via Conference Call)

NOTICE:

This is to inform you that the Appropriative Pool Committee will be convening a special meeting on Thursday, October 28, 2021 at 9:00am. Please see attached agenda and note that this meeting will consist only of a confidential session and will be held via conference call only.

A call-in number will be distributed to the appropriate members/alternates by the Appropriative Pool leadership.

Regards,

Anna

Anna Truong Nelson, CAP, OM, TA

Executive Services Director

Board Clerk Chino Basin Watermaster 9641 San Bernardino Road Rancho Cucamonga, CA 91730

Office: 909.484.3888 Fax: 909.484.3890 Web: www.cbwm.org



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A. M	SINESS ITEM – ROUTINE (ONAP) IINUTES
1.	Non Agricultural Dool Committee Meeting held on October 14, 2021
	Non-Agricultural Pool Committee Meeting held on October 14, 2021
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DRAFT MINUTES CHINO BASIN WATERMASTER NON-AGRICULTURAL POOL COMMITTEE MEETING

October 14, 2021

The Non-Agricultural Pool Committee meeting was held via Zoom (conference call and web meeting) on October 14, 2021.

NON-AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT ON CALL

Brian Geye, Chair California Speedway Corporation

Bob Bowcock, Vice-Chair CalMat Co.

Kathleen Brundage California Steel Industries, Inc. Christopher Quach City of Ontario (Non-Ag)

WATERMASTER BOARD MEMBERS PRESENT ON CALL

Mike Gardner Western Municipal Water District

WATERMASTER STAFF PRESENT ON CALL

Peter Kavounas General Manager

Edgar Tellez Foster Water Resources Mgmt. & Planning Dir.

Anna Nelson Executive Services Director

Justin Nakano Water Resources Technical Manager

Frank Yoo Data Services and Judgment Reporting Mgr.

Vanessa Aldaz Administrative Assistant

WATERMASTER CONSULTANTS PRESENT ON CALL

Brad Herrema Brownstein Hyatt Farber Schreck, LLP

Andy Malone West Yost

NON-AGRICULTURAL POOL COMMITTEE LEGAL COUNSEL PRESENT ON CALL

Allen Hubsch Loeb & Loeb, LLP

OTHERS PRESENT

Tarren Torres Egoscue Law Group, Inc.

CALL TO ORDER

Chair Geye called the Non-Agricultural Pool Committee meeting to order at 11:00 a.m.

ROLL CALL

(0:00:22) Ms. Aldaz conducted the roll call.

AGENDA - ADDITIONS/REORDER

None

I. BUSINESS ITEMS - ROUTINE

A. MINUTES

Receive and file as presented:

Minutes of the Non-Agricultural Pool Committee Meeting held September 9, 2021

(0:02:30)

Motion by Mr. Christopher Quach, seconded by Ms. Kathleen Brundage. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to receive and file Business Item I.A. as presented.

B. FINANCIAL REPORTS

Receive and file as presented:

1. Cash Disbursements for the month of August 2021

- 2. Watermaster VISA Check Detail for the month of August 2021
- 3. Combining Schedule for the Period July 1, 2021 through August 31, 2021
- 4. Treasurer's Report of Financial Affairs for the Period August 1, 2021 through August 31, 2021
- 5. Budget vs. Actual Report for the Period July 1, 2021 through August 31, 2021
- 6. Cash Disbursements for the month of September 2021

(0:03:07)

Motion by Mr. Christopher Quach, seconded by Ms. Kathleen Brundage. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to receive and file Business Item I.B. without approval as presented.

C. APPLICATION: WATER TRANSACTION

Provide advice and assistance on the proposed transaction:

The transfer of 1,000.00 acre-feet of water from Santa Ana River Water Company to Blue Triton Brands Inc. This transfer is made from Santa Ana River Water Company's Excess Carryover Account.

(0:03:53)

Motion by Mr. Christopher Quach, seconded by Ms. Kathleen Brundage. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to approve staff recommendation of Business Item I.C., and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.

II. BUSINESS ITEMS

A. ORDER NO. 6 UNDER MASTER AGREEMENT FOR COLLABORATIVE PROJECTS: LOSS OF HYDRAULIC CONTROL MITIGATION PLAN UPDATE

Recommend Advisory Committee approval of Task Order No. 6 as presented.

(0:00:00) Mr. Kavounas introduced Mr. Tellez Foster, who gave a report.

(0:08:01)

Motion by Mr. Christopher Quach, seconded by Ms. Kathleen Brundage. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to approve staff recommendation of Business Item II.A., and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.

B. FISCAL YEAR 2021/22 BUDGET AMENDMENT (FORM A-21-10-01)

Recommend to the Advisory Committee to approve the Fiscal Year 2021/22 Budget Amendment (Form A-21-10-01).

(0:08:48) Mr. Kavounas gave a report.

(0:09:20)

Motion by Mr. Christopher Quach, seconded by Ms. Kathleen Brundage. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to approve staff recommendation of Business Item II.B., and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.

C. MEMBER STATUS CHANGES

- 1. Any proposed transfer of Safe Yield by a Member.
- 2. Any transfer of Safe Yield that has actually closed or been completed.
- 3. Any change in name or corporate identity of a Member (such as results from a merger or filing of a change of name certificate).
- 4. Any change in the name of a representative or alternate representative of a Member, or a change in e-mail address for either such person.

None.

III. REPORTS/UPDATES

A. LEGAL COUNSEL

- 1. San Bernardino County Superior Court Emergency Order
- 2. October 8, 2021 Hearing
- 3. Rules & Regulations Update
- 4. Evergreen Storage Agreements
- 5. Kaiser Permanente Lawsuit

(0:13:17) Mr. Herrema gave a report.

B. ENGINEER

- 1. Ground-Level Monitoring Committee Update
- 2. Annual Streamflow Monitoring Report
- 3. Safe Yield Reset Methodology Workshop

(0:17:22) The Pool Committee opted to receive the Engineer's Reports next week during the Advisory Committee meeting. Mr. Malone then reminded the Appropriative Pool that written comments for the Ground-Level Monitoring Committee Annual Report were due by tomorrow and that the Safe Yield Methodology Peer Review Workshop would be held on October 26, 2021 at 1:30pm.

C. CHIEF FINANCIAL OFFICER

None

D. GENERAL MANAGER

- 1. Chino Basin Management Board Discussion (Workshop)
- 2. Storage Q&A
- 3. Drinking Water Well Principles and Strategies
- 4. Other

(0:18:30) Mr. Kavounas gave a report.

IV. <u>INFORMATION</u>

- 1. Recharge Investigations and Projects Committee (RIPComm)
- 2. Plumes Status Reports
- 3. Ground-Level Monitoring Status Report

V. POOL MEMBER COMMENTS

None

VI. OTHER BUSINESS

None

	A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.
	None
	JOURNMENT air Geye adjourned the Non-Agricultural Pool Committee meeting at 11:20 a.m.
	Secretary:
Apı	proved:

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

I.	ONSENT CALENDAR (OAP) MINUTES 1. Agricultural Pool Committee Meeting held on October 14, 2021 2. Agricultural Pool Committee Special Meeting held on October 29, 2021	
I.	. MINUTES 1. Agricultural Pool Committee Meeting held on October 14, 2021	
	Page 17	

DRAFT MINUTES CHINO BASIN WATERMASTER AGRICULTURAL POOL COMMITTEE MEETING

October 14, 2021

The Agricultural Pool Committee meeting was held via Zoom (conference call and web meeting) on October 14, 2021.

AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT ON CALL

Bob Feenstra, Chair Dairy
Jeff Pierson, Vice-Chair Crops
Ron LaBrucherie, Jr. Crops
Nathan deBoom Dairy
Henry DeHaan Dairy
John Huitsing Dairy
Geoffrey Vanden Heuvel Dairy

Steven Raughley

Pete Hall

Jimmy Medrano

Marilyn Levin for Carol Boyd

County of San Bernardino

State of California – CIM

State of California – CIM

State of California – DOJ

WATERMASTER STAFF PRESENT ON CALL

Peter Kavounas General Manager

Edgar Tellez Foster Water Resources Mgmt. and Planning Dir.

Anna Nelson Executive Services Director

Justin Nakano Water Resources Technical Manager

Frank Yoo Data Services and Judgment Reporting Mgr.

Vanessa Aldaz Administrative Assistant

WATERMASTER CONSULTANTS PRESENT ON CALL

Brad Herrema Brownstein Hyatt Farber Schreck, LLP

Andy Malone West Yost

OTHERS PRESENT ON CALL

Ruben Llamas Crops Gino Filippi Crops

Tracy Egoscue Egoscue Law Group, Inc. Larry Cain State of California – CIM

Richard Rees Wood plc

CALL TO ORDER

Chair Feenstra called the Agricultural Pool Committee meeting to order at 1:30 p.m.

ROLL CALL

(0:00:17) Ms. Aldaz conducted the roll call and announced that a quorum was present.

AGENDA - ADDITIONS/REORDER

The Agricultural Pool Committee took Confidential Session directly following the Roll Call.

I. CONSENT CALENDAR

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

A. MINUTES

Approve as presented:

- 1. Minutes of the Agricultural Pool Committee Meeting held September 9, 2021
- 2. Minutes of the Agricultural Pool Committee Special Meeting held September 20, 2021

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of August 2021
- 2. Watermaster VISA Check Detail for the month of August 2021
- 3. Combining Schedule for the Period July 1, 2021 through August 31, 2021
- 4. Treasurer's Report of Financial Affairs for the Period August 1, 2021 through August 31, 2021
- 5. Budget vs. Actual Report for the Period July 1, 2021 through August 31, 2021
- 6. Cash Disbursements for the month of September 2021

C. APPLICATION: WATER TRANSACTION

Provide advice and assistance to the Advisory Committee on the proposed transaction:

The transfer of 1,000.0 acre-feet of water from Santa Ana River Water Company to Blue Triton Brands, Inc. This transfer is made from Santa Ana River Water Company's Excess Carryover Account.

- (0:04:14) Vice-Chair Pierson requested that Consent Calendar Item I.C., Application: Water Transaction, be pulled for separate discussion.
- (0:04:28) Vice-Chair Pierson introduced a motion to approve Consent Calendar Items I.A. and I.B., seconded by Mr. LaBrucherie.
- (0:04:50) Mr. Raughley raised a question about Consent Calendar Item I.B., the Financial Reports.
- (0:09:43) Vice-Chair Pierson revised his motion to include only Consent Calendar Item I.A.
- (0:10:17) A roll call vote was taken.

Motion by Vice-Chair Pierson, seconded by Mr. Ron LaBrucherie, Jr., and passed by unanimous roll call vote as attached to these minutes.

Moved to approve Consent Calendar Items I.A., the Minutes, as presented.

- (0:12:01) Discussion continued on Item I.B. Ms. Egoscue suggested that the financials come back at the next Pool meeting to receive and file, after the question has been addressed. It was so ordered by Chair Feenstra to bring back the August financials to the November meeting.
- (0:15:44) Vice-Chair Pierson introduced a motion to oppose Consent Calendar Item I.C., Application Water Transaction.
- (0:16:34) A roll call vote was taken.

Motion by Vice-Chair Pierson, seconded by Mr. Pete Hall, and passed by unanimous roll call vote as attached to these minutes.

Moved to oppose Consent Calendar Item I.C. as presented.

II. BUSINESS ITEMS

A. TASK ORDER NO. 6 UNDER MASTER AGREEMENT FOR COLLABORATIVE PROJECTS: LOSS OF HYDRAULIC CONTROL MITIGATION PLAN UPDATE

Recommend Advisory Committee approval of Task Order No. 6 as presented.

(0:18:30) Mr. Kavounas introduced Mr. Tellez Foster, who gave a report.

(0:20:56) A roll call vote was taken.

Motion by Mr. Geoffrey Vanden Heuvel, seconded by Vice-Chair Jeff Pierson, and passed by unanimous roll call vote as attached to these minutes.

Moved approve Business Item II.A., Task Order No. 6 Under Master Agreement For Collaborative Projects: Loss of Hydraulic Control Mitigation Plan Update, as presented.

B. FISCAL YEAR 2021/22 BUDGET AMENDMENT (FORM A-21-10-01)

Recommend to the Advisory Committee to approve the Fiscal Year 2021/22 Budget Amendment (Form A-21-10-01).

(0:22:24) Mr. Kavounas gave a report. A discussion ensued.

(0:23:28) A roll call vote was taken.

Motion by Mr. Geoffrey Vanden Heuvel, seconded by Vice-Chair Jeff Pierson, and passed by unanimous roll call vote as attached to these minutes.

Moved approve Business Item II.B., Fiscal Year 2021/22 Budget Amendment (Form A-21-10-01), as presented.

C. OLD BUSINESS

None

III. REPORTS/UPDATES

A. LEGAL COUNSEL

- 1. San Bernardino County Superior Court Emergency Order
- 2. October 8, 2021 Hearing
- 3. Rules & Regulations Update
- 4. Evergreen Storage Agreements
- 5. Kaiser Permanente Lawsuit

The Engineer's Report was taken before the Legal Counsel's Report.

(0:43:10) Mr. Herrema gave a report. A discussion ensued.

B. ENGINEER

- 1. Ground-Level Monitoring Committee Update
- 2. Annual Streamflow Monitoring Report
- 3. Safe Yield Reset Methodology Workshop

(0:25:45) Mr. Malone gave a report including a presentation on Item 1, Ground-Level Monitoring Committee Update. A discussion ensued.

C. CHIEF FINANCIAL OFFICER

None

D. GENERAL MANAGER

- 1. Chino Basin Management Board Discussion (Workshop)
- 2. Storage Q&A
- 3. Drinking Water Well Principles and Strategies
- 4. Other

(0:53:17) Mr. Kavounas gave a report. A discussion ensued.

IV. POOL DISCUSSION

- 1. Chairman's Update
- 2. Pool Member Comments

(0:55:00) Chair Feenstra took a moment to recognize Ms. Egoscue, Vice-Chair Pierson, Mr. Pietersma, Mr. Hofer, and others that have been so generous with their time and leadership. He also offered compliments to the Watermaster staff.

(0:57:50) Mr. Hall reported out that Mr. Tamer Ahmed would no longer be an alternate as a State of California and was being replaced with Ms. Diana Frederick. Mr. Hall has already made Watermaster aware.

(0:58:20) Chair Feenstra commented on the upcoming Advisory Committee and Watermaster Board meetings. Vice-Chair Pierson also commented and complimented Mr. Kavounas and Watermaster staff on the October 13th Chino Basin Management – Board Discussion (Workshop) stating that it was a great and helpful overview.

V. OTHER BUSINESS

None

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

Chair Feenstra called for a Confidential Session at 1:38 p.m. to discuss the following:

- 1. October 8, 2021 Hearing
- 2. Amendment to Storage Contest
- 3. Update on Ag Well Production Assessment

(0:02:41) Confidential session concluded at 2:29 p.m. with the following reportable action:

Motion by Mr. Ron LaBrucherie Jr., seconded by Vice-Chair Jeff Pierson, and passed unanimously.

The Agricultural Pool sets a legal budget of \$500,000.00 and a Special Projects budget of \$85,000.00 for Fiscal Year 2021/22.

ADJOURNMENT

Chair Feenstra adjourned the Agricultural Pool Committee meeting at 3:35 p.m.

	Secretary:
Approved:	

Attachments:

- 1. 20211014 Reportable Action as provided by Pool Legal Counsel
- 2. 20211014 Roll Call Vote Outcome for Consent Calendar Items I.A. and I.C. and Business Items I.A. and I.B.

Attachment 1 to 20211014 Agricultural Pool Committee Meeting Minutes

10/14/21 Confidential Session Motion by Agricultural Pool

Motion by: Ron LaBrucherie Second by: Vice Chair Pierson

The Agricultural Pool sets a legal budget of \$500,000 and a Special Projects budget of \$85,000 for fiscal year 2021/22.

Motion Passed

Chair Feenstra Yes Vice Chair Pierson Yes Nathan DeBoom Yes Henry DeHaan Yes John Huitsing Yes Geoff Vanden Heuvel Yes Ron La Brucherie Yes Steven Raughley Yes Marilyn Levin Yes Pete Hall Yes Jimmy Medrano Yes

October 14, 2021 Agricultural Pool Committee Meeting Roll Call Vote Outcome for Consent Calendar and Business Items

		Consent Calendar Item	Consent Calendar Item		
Member	Alternate	I.A.	I.C.	Business Item II.A.	Business Item II.B.
LaBrucherie, Jr., Ron		yes		yes	yes
	Filippi, Gino		yes		
Pierson, Jeff, Vice-Chair		yes	yes	yes	yes
deBoom, Nathan		yes	yes	yes	yes
DeHaan, Henry		yes	yes	yes	yes
Huitsing, John		yes	yes	yes	yes
Vanden Heuvel, Geoffrey		yes	yes	yes	yes
Raughley, Steven		yes	yes	yes	yes
Boyd, Carol					
	Levin, Marilyn	yes	yes	yes	yes
Hall, Pete		yes	yes	yes	yes
Medrano, Jimmy		yes	yes	yes	yes
Feenstra, Bob, Chair		yes	yes	yes	yes
		Passed Unanimously by	Passed Unanimously by	Passed Unanimously by	Passed Unanimously by
	OUTCOME:	those present	those present	those present	those present

DRAFT MINUTES CHINO BASIN WATERMASTER AGRICULTURAL POOL COMMITTEE - SPECIAL MEETING

October 29, 2021

The Agricultural Pool Committee special meeting was held via Zoom (conference call and web meeting) on October 29, 2021.

AGRICULTURAL POOL COMMITTEE MEMBERS PRES	ENT ON CALL
Bob Feenstra, Chair	Dairy
Ron LaBrucherie, Jr.	Crops
Nathan deBoom	Dairy
John Huitsing	Dairy
Steven Raughley	County of San Bernardino
Pete Hall	State of California – CIM
Jimmy Medrano	State of California – CIM
Marilyn Levin for Carol Boyd	State of California – DOJ
OTHERS PRESENT ON CALL	
Gino Filippi	Crops
Paul Hofer	Crops
Ruben Llamas	Crops
Larry Cain	State of California – CIM
Tracy Egoscue	Egoscue Law Group, Inc.
Richard Rees	Wood plc
CALL TO ORDER Chair Feenstra called the Agricultural Pool Committee spe I. CONFIDENTIAL SESSION - POSSIBLE ACTION A Confidential Session may be held during the Pool Cand possible action.	Committee meeting for the purpose of discussion
Chair Feenstra called for a Confidential Session at 1:0	00 p.m. to discuss the November 5, 2021 Hearing.
Confidential session concluded at 2:12 p.m. with no re	eportable action.
ADJOURNMENT Chair Feenstra adjourned the Agricultural Pool Committee	special meeting adjourned at 2:12 p.m.
Secre	tary:
Approved:	
Attachments:	

1. Attachment 1: 20211029 Adjournment and Attendance as provided by Pool Legal Counsel

Anna Nelson

From: Tracy J. Egoscue <tracy@egoscuelaw.com>

Sent: Friday, October 29, 2021 2:19 PM

To: Janine Wilson

Cc: Anna Nelson; Ruby Favela
Subject: Re: Zoom for Special Ag Meeting

Attachments: Ag Pool Special Meeting Sign IN 102921.pdf

The Special Meeting of the Ag Pool concluded at 2:12pm with no reportable action.

Sign in sheet attached.

Thank you.

Tracy J. Egoscue, Esq. Egoscue Law Group, Inc. 562.988.5978 office 562.981.4866 cell

tracy@egoscuelaw.com

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On Oct 26, 2021, at 11:48 AM, Janine Wilson <JWilson@cbwm.org> wrote:

Hi Tracy,

I have attached the sign-in sheet.

Thank you!

From: Anna Nelson atruongnelson@cbwm.org Sent: Tuesday, October 26, 2021 11:46 AM To: Tracy J. Egoscue tracy@egoscuelaw.com

Cc: Ruby Favela <<u>rfavela@cbwm.org</u>>; Janine Wilson <<u>JWilson@cbwm.org</u>>

Subject: RE: Zoom for Special Ag Meeting

Janine will help send over the sign-in sheet to you shortly.

From: Tracy J. Egoscue < tracy J. Egoscue < tracy@egoscuelaw.com>
Sent: Tuesday, October 26, 2021 10:14 AM
To: Anna Nelson < atruongnelson@cbwm.org>
Cc: Ruby Favela < tracy@egoscuelaw.com>
Subject: Re: Zoom for Special Ag Meeting

Thank you for letting me know.

Please send me one.

Welcome to the family Ruby!

Tracy J. Egoscue, Esq. Egoscue Law Group, Inc. 562.988.5978 office 562.981.4866 cell

tracy@egoscuelaw.com

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On Oct 26, 2021, at 9:43 AM, Anna Nelson atruongnelson@cbwm.org wrote:

Hi Tracy,

You may have already heard but Vanessa is no longer with Watermaster. I have cc'ed Ruby who has taken Vanessa's place.

Refresh me, have we continued to send you sign-in sheets for Confidential Session meetings? If so, we'll get one over to you shortly.

Anna

From: Tracy J. Egoscue < tracy@egoscuelaw.com> **Sent:** Monday, October 25, 2021 8:10 AM

To: Anna Nelson atruongnelson@cbwm.org; Vanessa Aldaz <<u>valdaz@cbwm.org</u>>

Cc: Tracy J. Egoscue <tracy@egoscuelaw.com> Subject: Zoom for Special Ag Meeting

Topic: Special Ag Pool Meeting

Time: Oct 29, 2021 01:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

https://us02web.zoom.us/j/83442569055?pwd=SVE4RjZkN2Qrdk5VS0kzSk91a3NWQT09

Meeting ID: 834 4256 9055 Passcode: 706586 One tap mobile +16699009128,,83442569055#,,,,*706586# US (San Jose) +13462487799,,83442569055#,,,,*706586# US (Houston)

Tracy J. Egoscue, Esq. Egoscue Law Group, Inc. 562.988.5978 office 562.981.4866 cell

tracy@egoscuelaw.com

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<Agricultural Pool Special Meeting (Conf Call Only) Sign In Sheet.pdf>

CHINO BASIN WATERMASTER

Agricultural Pool Committee- Special Meeting (Confidential Session Only) Held Via Zoom (Web and Conference Call) October 29, 2021 - 1:00 p.m.

ATTENDANCE SHEET

NAME	AFFILIATION	E-MAIL ADDRESS (If not previously provided)
1 Chark Feen Lea		
2. TRACY EXOSCUP		
3. Row La Reucheil	•	
4. Ruber Clamas		
5. Lakky Cain	•	
6. Per Hall	ř	
7. Como Fillipi		*
8. Steven faughter	•	•
9. Rick Real		•
10. JOHN Hurtzui		•
11. Na Vhen De Roo	ni.	
12. Marchy Cours		
13. Juny Medegno		
14. Paul o Horace		
15.		
16.	,	
17.		,
18.		
19.	•	
20.		
21.	•	*
22.	•	
23.		
24.	•	
25.		

I. <u>CONSENT CALENDAR</u> (AP & OAP)

B. FINANCIAL REPORT

- 1. Cash Disbursements for the month of September 2021
- 2. Watermaster VISA Check Detail for the month of September 2021
- 3. Combining Schedule for the Period July 1, 2021 through September 30, 2021
- 4. Treasurer's Report of Financial Affairs for the Period September 1, 2021 through September 30, 2021
- 5. Budget vs. Actual Report for the Period July 1, 2021 through September 30, 2021
- 6. Cash Disbursements for the month of October 2021

I. <u>BUSINESS ITEMS – ROUTINE</u> (ONAP)

B. FINANCIAL REPORTS

- 1. Cash Disbursements for the month of September 2021
- 2. Watermaster VISA Check Detail for the month of September 2021
- 3. Combining Schedule for the Period July 1, 2021 through September 30, 2021
- 4. Treasurer's Report of Financial Affairs for the Period September 1, 2021 through September 30, 2021
- 5. Budget vs. Actual Report for the Period July 1, 2021 through September 30, 2021
- 6. Cash Disbursements for the month of October 2021



CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Cash Disbursement Report - Financial Report B1 (September 30, 2021)

(Consent Calendar Item I.B.1.)

SUMMARY

Issue: Record of Cash Disbursements for the month of September 2021.

Recommendation: Receive and file Cash Disbursements for September 2021 as presented.

Financial Impact: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster

Budget.

Future Consideration

Appropriative Pool – November 10, 2021: Receive and File Non-Agricultural Pool – November 10, 2021: Receive and File Agricultural Pool – November 10, 2021: Receive and File Advisory Committee – November 18, 2021: Receive and File

Watermaster Board - November 18, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

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

DISCUSSION

Total cash disbursements during the month of September 2021 were \$655,708.87.

The most significant expenditures during the month were to West Yost Associates in the amount of \$183,192.83 (check number 23036 dated September 2, 2021); and Inland Empire Utilities Agency in the amount of \$110,564.75 (check number 23050 dated September 3, 2021).

ATTACHMENTS

1. Financial Report – B1

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	09/02/2021	23028	ACCENT COMPUTER SOLUTIONS, INC.	146289	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2021	146289		Monthly Services - September 2021	6052.4 · IT Managed Services	3,969.21
					Overwatch - September 2021	6052.5 · IT Data Backup/Storage	699.00
					OmniCloud - September 2021	6052.5 · IT Data Backup/Storage	170.00
					Office 365 Subscriptions/Business Premier - Sep	ote 6052.4 · IT Managed Services	204.75
					Image office storage (per GB, per month)	6052.5 · IT Data Backup/Storage	546.00
TOTA	L						5,588.96
	Bill Pmt -Check	09/02/2021	23029	APPLEONE	01-6021045	1012 · Bank of America Gen'l Ckg	
	Bill	08/27/2021	01-6021045		Temporary Services - Brian Summers	6017.2 · Office Specialist Services	1,245.04
TOTA	L						1,245.04
	Bill Pmt -Check	09/02/2021	23030	JOHN J. SCHATZ	Appropriative Pool Legal Services	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2021			July 2021	8367 · Legal Service	14,035.00
TOTA	L						14,035.00
	Bill Pmt -Check	09/02/2021	23031	EASTVALE DEVELOPMENT COMPANY-PIEI	RS(Ag Pool and Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	02/05/2021	2/05 Call w/Chair		2/05/21 Call w/Ag Pool Chair	8411 · Ag Pool Member Compensation	25.00
					2/05/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	100.00
	Bill	02/09/2021	2/09 call w/Bd Offcr		2/09/21 Call w/Board Officers	6311 · Board Member Compensation	125.00
	Bill	02/11/2021	2/11 Call w/Chair		2/11/21 Call w/Ag Pool Chair	8411 · Ag Pool Member Compensation	25.00
					2/11/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	100.00
	Bill	02/11/2021	2/11 Ag Pool Mtg		2/11/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	02/16/2021	2/16 Call w/Chair		2/16/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	02/16/2021	2/16 Call w/Bd Sec		2/16/21 Call w/Board Secretary	6311 · Board Member Compensation	125.00
	Bill	02/18/2021	2/18 Call w/Chair		2/18/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	02/18/2021	2/18 Advisory Comm		2/18/21 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	02/18/2021	2/18 Call w/Bd Offcr		2/18/21 Call w/Board Officers and Pool Chairs	6311 · Board Member Compensation	125.00
	Bill	02/23/2021	2/23 Call w/Chair		2/23/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	02/23/2021	2/23 Bd Offcrs Coord		2/23/21 Board Officers Coordination w/GM	6311 · Board Member Compensation	125.00
	Bill	02/25/2021	2/25 Board Mtg		2/25/21 Board Meeting	6311 · Board Member Compensation	125.00
	Bill	02/26/2021	2/26 Call w/Chair		2/26/21Call w/Ag Pool Chair	$8470 \cdot \text{Ag Meeting Attend -Special}$	125.00
TOTA	L						1,625.00
	Bill Pmt -Check	09/02/2021	23032	PIETERSMA, RONALD	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	08/12/2021	8/12 Ag Pool Mtg		8/12/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						125.00
	Bill Pmt -Check	09/02/2021	23033	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	08/26/2021	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	942.71
TOTAL	_					•	942.71
	Bill Pmt -Check	09/02/2021	23034	UNITED HEALTHCARE	052586388611	1012 · Bank of America Gen'l Ckg	
	Bill	08/26/2021	052586388611		Dental Insurance Premium - September 2021	60182.2 · Dental & Vision Ins	732.28
TOTAL	_					-	732.28
	Bill Pmt -Check	09/02/2021	23035	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
	Bill	08/26/2021	00101789		Vision Insurance Premium - September 2021	60182.2 · Dental & Vision Ins	93.83
TOTAL	-						93.83
	Bill Pmt -Check	09/02/2021	23036	WEST YOST		1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2021	2046081		2046081	6906.31 · OBMP-Pool, Adv. Board Mtgs	5,058.75
	Bill	07/31/2021	2046082		2046082	6906.32 · OBMP-Other General Meetings	7,394.75
	Bill	07/31/2021	2046083		2046083	6906.74 · OBMP-Mat'l Phy. Injury Requests	156.00
	Bill	07/31/2021	2046084		2046084	6906.71 · OBMP-Data ReqCBWM Staff	6,842.75
	Bill	07/31/2021	2046085		2046085	6906.72 · OBMP-Data ReqNon CBWM Staff	1,019.75
	Bill	07/31/2021	2046086		2046086	6906 · OBMP Engineering Services	2,386.25
	Bill	07/31/2021	2046087		2046087	6906.81 · Prepare Annual Reports	1,475.50
	Bill	07/31/2021	2046088		2046088	6906.15 · Integrated Model Mtgs-IEUA Cost	7,352.25
	Bill	07/31/2021	2046089		2046089	7103.3 · Grdwtr Qual-Engineering	22,525.24
	Bill	07/31/2021	2046090		2046090	7104.3 · Grdwtr Level-Engineering	13,352.72
	Bill	07/31/2021	2046091		2046091	7107.2 · Grd Level-Engineering	2,277.32
	Bill	07/31/2021	2046092		2046092	7107.2 · Grd Level-Engineering	2,939.05
	Bill	07/31/2021	2046093		2046093	7107.3 · Grd Level-SAR Imagery	2,194.50
	Bill	07/31/2021	2046094		2046094	7110.3 · Ag Prod. & Estimation-Eng. Serv	1,619.25
	Bill	07/31/2021	2046095		2046095	7202.2 · Engineering Svc	12,232.25
	Bill	07/31/2021	2046096		2046096	7303 · PE3&5-Engineering	712.00
	Bill	07/31/2021	2046097		2046097	7402 · PE4-Engineering	14,417.75
	Bill	07/31/2021	2046098		2046098	7402 · PE4-Engineering	2,925.50
	Bill	07/31/2021	2046099		2046099	7502 · PE6&7-Engineering	3,656.00
	Bill	07/31/2021	2046100		2046100	7510 · PE6&7-IEUA Salinity Mgmt. Plan	31,468.50
	Bill	07/31/2021	2046101		2046101	6906.14 · Modeling for WSIP-100% IEUA	41,186.75
TOTAL	-						183,192.83
	Bill Pmt -Check	09/02/2021	23037	APPLIED COMPUTER TECHNOLOGIES	3430	1012 · Bank of America Gen'l Ckg	
	Bill	08/31/2021	3430	I LIED COMI CILIX I LOTINOLOGIES	Database Consulting Services - August 2021	6052.2 · Applied Computer Technol	3,850.00
TOTAL		00/01/2021	3.30		Database Contouring Convictor / August 2021	- Applied Computer Footilier	3,850.00
IOIAL	-						5,050.00
	Bill Pmt -Check	09/02/2021	23038	DE HAAN, HENRY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	

TOTAL TOTA		Туре	Date	Num	Name Name	Memo	Account	Paid Amount
Bill Pmi - Check 969/22021 298/9 EMPOWER LAB 199.5 1912 Bank of America Gen'l Ckg 1,075.00 1		Bill	07/08/2021	7/08 Ag Pool Mtg		7/08/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill Pmt - Check 000/2022 2040 EUROFINS EATON ANALYTICAL L0565374 1012 - Bank of America Gen'l Ckg 1080 - 1	TOTAL	-						125.00
Bill Pmt - Check 000/2022 2040 EUROFINS EATON ANALYTICAL L0565374 1012 - Bank of America Gen'l Ckg 1080 - 1								
Sill Pml -Check		Bill Pmt -Check	09/02/2021	23039	EMPOWER LAB	1965	1012 · Bank of America Gen'l Ckg	
Bill Pmt -Check 090/27027 10.065.574 10.065.574 10.065.574 10.065.574 10.065.574 10.065.574 10.065.074 10.067.074.18 Svcs 1.052.000 10.067.074.18 Svcs 1.052.000 1.052.000 10.067.074.18 Svcs 1.052.000 1.052.000 10.055		Bill	08/31/2021	1965		Empower Lab - August 2021	6193 · Employee Training	1,075.00
Bill 061/2021 1.068058 1.0580508 7103.5 - Gridwit Qualit-Lab Sivos 1.592.00 Bill 061/2021 1.068058 7103.5 - Gridwit Qualit-Lab Sivos 1.592.00 Bill 0631/2021 1.068058 7103.5 - Gridwit Qualit-Lab Sivos 1.592.00 Bill 0631/2021 28041 FEDAK & BROWN LLP 0.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 0.000	TOTAL	-						1,075.00
Bill 061/2021 1.068058 1.0580508 7103.5 - Gridwit Qualit-Lab Sivos 1.592.00 Bill 061/2021 1.068058 7103.5 - Gridwit Qualit-Lab Sivos 1.592.00 Bill 0631/2021 1.068058 7103.5 - Gridwit Qualit-Lab Sivos 1.592.00 Bill 0631/2021 28041 FEDAK & BROWN LLP 0.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 7.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Bill 0631/2021 28042 7.000 0.000								
Bill Mil					EUROFINS EATON ANALYTICAL		=	
Bill PMI - Check PMI PMI - Check PMI - C							•	
State Stat								
Bill Pmt - Check Dill 2 Bank of America Gen'l Ckg Bill Pmt - Check Dill 2 Bank of America Gen'l Ckg Bill Pmt - Check Dill 2 Bank of America Gen'l Ckg Dill 3 Dil			08/31/2021	L0588685		L0588685	7103.5 · Grdwtr Qual-Lab Svcs	
Bill Pmt - Check Pmt - C	TOTAL	-						2,660.00
Bill Pmt - Check Pmt - C		Bill Pmt -Check	09/02/2021	23041	FEDAK & BROWN LLP	Ongoing Audit Services	1012 - Bank of America Gen'l Ckg	
				20041	. EDANG BROWN EE	<u> </u>	-	1 095 00
Bill Pmt - Check D9/02/2021 23042 FLOOR COVERINGS INTERNATIONAL Balance due at job completion 1012 · Bank of America Gen'l Ckg 23.435.65 TOTAL	TOTAL		00/01/2021			/ tegact = v = 1	7.000	
Bill Miles Miles	10171	_						1,000.00
Bill Pmt - Check Bill Pmt -		Bill Pmt -Check	09/02/2021	23042	FLOOR COVERINGS INTERNATIONAL	Flooring and carpeting installation	1012 · Bank of America Gen'l Ckg	
Bill Pmt - Check 09/02/2021 23043 PETTY CASH 2892-2899 1012 - Bank of America Gen'l Ckg 126.41		Bill	08/27/2021			Balance due at job completion	1840 · Capital Assets	23,435.65
Bill PM - Check 09/02/2021 23044 PREMIERE GLOBAL SERVICES Service fee 6022 - Telephone 4.25 Service fee 6022 - Telephone	TOTAL	-						23,435.65
Bill PM - Check 09/02/2021 23044 PREMIERE GLOBAL SERVICES Service fee 6022 - Telephone 4.25 Service fee 6022 - Telephone								
Bill Pmt -Check		Bill Pmt -Check	09/02/2021	23043	PETTY CASH	2892-2899	1012 · Bank of America Gen'l Ckg	
Miscellaneous office supplies 183.56 183.5		Bill	08/31/2021	2892-2899		Tile, grout and outlet covers for kitchen remodel	6031.7 · Other Office Supplies	126.41
Bill Pmt - Check 09/02/2021 23044 PREMIERE GLOBAL SERVICES 30703390 1012 - Bank of America Gen'l Ckg Service fee 6022 - Telephone 4.25 Fee - Ceneral 6022 - Telephone 39.00 Fee - Ceneral 6022 - Telephone 6022 - Te						8/20 and 8/26 staff mtg supplies	6141.3 · Admin Meetings	79.49
Bill Pmt - Check 09/02/2021 23044 PREMIERE GLOBAL SERVICES 30703390 1012 · Bank of America Gen'l Ckg Service fee 6022 · Telephone 4.25 Fee - General 6022 · Telephone 39.00 Fee - Confidential 6022 · Telephone 39.00 Service fee 6022 · Telephone 39.00 Service fee 6022 · Telephone 4.25 Shortfall 6022 · Telephone 78.00 TOTAL						Miscellaneous office supplies	6031.7 · Other Office Supplies	183.36
Bill 08/26/2021 30703390 Service fee 6022 · Telephone 4.25 Fee - General 6022 · Telephone 39.00 Fee - Confidential 6022 · Telephone 39.00 6022 · Telephone 39.00 6022 · Telephone 39.00 6022 · Telephone 39.00 6022 · Telephone 4.25 6022 · Telephone 4.25 6022 · Telephone 78.00 78.00 6022 · Telephone 78.00 6022 · Teleph	TOTAL	-						389.26
Bill 08/26/2021 30703390 Service fee 6022 · Telephone 4.25 Fee - General 6022 · Telephone 39.00 Fee - Confidential 6022 · Telephone 39.00 6022 · Telephone 39.00 6022 · Telephone 39.00 6022 · Telephone 39.00 6022 · Telephone 4.25 6022 · Telephone 4.25 6022 · Telephone 78.00 78.00 6022 · Telephone 78.00 6022 · Teleph								
Fee - General 6022 · Telephone 39.00 Fee - Confidential 6022 · Telephone 39.00 Fee - Confidential 6022 · Telephone 39.00 Service fee 6022 · Telephone 4.25 Shortfall 6022 · Telephone 78.00 78.00 Fee - Confidential 6022 · Telephone 78.00 Fee - Confidential 6022 · Telephone 6022 · Telephone 78.00 Fee - Confidential 78.00					PREMIERE GLOBAL SERVICES		_	
Fee - Confidential 6022 - Telephone 39.00		Bill	08/26/2021	30703390			•	
Service fee							•	
Shortfall Shortfall 6022 · Telephone 78.00 164.50							•	
Bill Pmt -Check 09/02/2021 23045 RR FRANCHISING, INC. 102905 1012 · Bank of America Gen'l Ckg							•	
Bill Pmt -Check 09/02/2021 23045 RR FRANCHISING, INC. 102905 1012 · Bank of America Gen'l Ckg Bill 09/02/2021 102905 Monthly service for office & annex - Sep. 2021 6024 · Building Repair & Maintenance 915.00 TOTAL 915.00 915.00 915.00 915.00	TOTAL					Snortfall	6022 · Telephone	
Bill 09/02/2021 102905 Monthly service for office & annex - Sep. 2021 6024 · Building Repair & Maintenance 915.00 TOTAL 915.00	IOTAL	-						164.50
Bill 09/02/2021 102905 Monthly service for office & annex - Sep. 2021 6024 · Building Repair & Maintenance 915.00 TOTAL 915.00		Bill Pmt -Check	09/02/2021	23045	RR FRANCHISING, INC.	102905	1012 · Bank of America Gen'l Ckg	
TOTAL 915.00					, -		=	915.00
	TOTAL	_					5 .	
Bill Pmt -Check 09/02/2021 23046 SPECTRUM BUSINESS 2031978082321 1012 · Bank of America Gen'l Ckg								
		Bill Pmt -Check	09/02/2021	23046	SPECTRUM BUSINESS	2031978082321	1012 ⋅ Bank of America Gen'l Ckg	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	08/26/2021	2031978082321		8/23/21-9/22/21	6053 · Internet Expense	804.52
TOTAL							804.52
	Bill Pmt -Check	09/02/2021	23047	STATE COMPENSATION INSURANCE FUND	1000293042	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/01/2021	100029342		Policy # 1970970 - Premium charge 8/26/21-9/26/	/260183 · Worker's Comp Insurance	702.33
TOTAL							702.33
	Bill Pmt -Check	09/02/2021	23048	THE KITCHEN POST	Kitchen Remodel & Renovation	1012 · Bank of America Gen'l Ckg	
	Bill	08/27/2021			Balance due on kitchen remodel	1840 · Capital Assets	7,304.89
TOTAL							7,304.89
	Bill Pmt -Check	09/02/2021	ACH 090221	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2021	1394905143		Medical Insurance Premiums - September 2021	60182.1 · Medical Insurance	11,327.95
TOTAL							11,327.95
	Bill Pmt -Check	09/02/2021	23049	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
	Bill	08/31/2021	7076224530355049		August 2021	6175 · Vehicle Fuel	179.29
TOTAL							179.29
	Bill Pmt -Check	09/03/2021	23050	INLAND EMPIRE UTILITIES AGENCY	90029796	1012 · Bank of America Gen'l Ckg	
	Bill	09/03/2021	90029796		O&M Cost reimbursement - FY 2021/2022 1st qtr.	7206 · Comp Recharge-O&M	110,564.75
TOTAL							110,564.75
	Bill Pmt -Check	09/03/2021	23051	JOHN DIAZ PAINTING	Office Painting Project	1012 · Bank of America Gen'l Ckg	
	Bill	09/03/2021	10% deposit		First payment - 10% deposit	1840 · Capital Assets	1,500.00
TOTAL							1,500.00
	Bill Pmt -Check	09/03/2021	23052	JOHN DIAZ PAINTING	Office Painting Project	1012 · Bank of America Gen'l Ckg	
	Bill	09/03/2021	2nd payment		2nd payment	1840 · Capital Assets	1,500.00
TOTAL							1,500.00
	Bill Pmt -Check	09/03/2021	23053	LOPEZ, NICHOLAS	VOID:	1012 · Bank of America Gen'l Ckg	0.00
TOTAL							0.00
	Bill Pmt -Check	09/03/2021	23054	LOPEZ, NICHOLAS	Handman Services - Door installtion	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/03/2021			Cost to replace doors in office	1840 · Capital Assets	1,100.00
TOTAL							1,100.00
	Bill Pmt -Check	09/08/2021	ACH 090821	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
	General Journal	09/04/2021	09/04/2021	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 08/22/21-09/04/21	2000 · Accounts Payable	9,186.50

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTA	L						9,186.50
	General Journal	09/08/2021	09/08/2021	HEALTH EQUITY	Health Equity Invoice 3025143	1012 · Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 3025143	1012 · Bank of America Gen'l Ckg	15.00
TOTA	L				, ,	Ç	15.00
	General Journal	09/09/2021	09/09/2021	Payroll and Taxes for 08/22/21-09/04/21	Payroll and Taxes for 08/22/21-09/04/21	1012 · Bank of America Gen'l Ckg	
				ADP, LLC	Direct Deposits for 08/22/21-09/04/21	1012 · Bank of America Gen'l Ckg	31,475.56
				ADP, LLC	Payroll and Taxes for 08/22/21-09/04/21	1012 · Bank of America Gen'l Ckg	12,138.62
				MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 08/22/21-09/04/21	1012 · Bank of America Gen'l Ckg	5,765.46
				MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 08/22/21-09/04/21	1012 · Bank of America Gen'l Ckg	1,694.48
TOTA	L						51,074.12
	Bill Pmt -Check	09/09/2021	23055	ACWA JOINT POWERS INSURANCE AUTHO	DDIT 0672402	1012 · Bank of America Gen'l Ckg	
	Bill	09/08/2021	0673492	AGWA JOINT FOWERS INSURANCE AUTHO	Prepayment - October 2021	1409 · Prepaid Life, BAD&D & LTD	271.60
	DIII	09/00/2021	0073432		September 2021	60191 · Life & Disab.Ins Benefits	254.74
TOTA	1				September 2021	00191 · Life & Disabilits Deficition	526.34
1018	L						320.34
	Bill Pmt -Check	09/09/2021	23056	APPLEONE	01-6028453	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2021	01-6028453		Temporary Services - Brian Summers	6017.2 · Office Specialist Services	1,260.80
TOTA	L						1,260.80
	Bill Pmt -Check	09/09/2021	23057	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	08/12/2021	8/12 Special Ag Mtg		8/12/21 Special Ag Pool Mtg	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						125.00
	Bill Pmt -Check	09/09/2021	23058	FILIPPI, GINO	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	08/12/2021	8/12 Special Ag		8/12/21 Special Ag Pool mtg	8470 · Ag Meeting Attend -Special	125.00
	Bill	08/19/2021	8/19 Special Advis		8/19/21 Special Advisory Committee mtg	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						250.00
	Bill Pmt -Check	09/09/2021	23059	INLAND VALLEY DAILY BULLETIN	900421820	1012 · Bank of America Gen'l Ckg	
	Bill	09/08/2021	900421820		26 weeks renewal	6112 · Subscriptions/Publications	605.87
TOTA	L						605.87
	Bill Pmt -Check	09/09/2021	23060	JOHN DIAZ PAINTING	Office Painting Project	1012 · Bank of America Gen'l Ckg	
	Bill	09/08/2021	3rd payment due	-	3rd payment due at end of fifth business day	1840 · Capital Assets	6,000.00
TOTA			. ,		. ,	•	6,000.00
. = .,,							2,223.00
	Bill Pmt -Check	09/09/2021	23061	R&D PEST SERVICES	0277858	1012 ⋅ Bank of America Gen'l Ckg	

		Туре	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check 09/09/2021 20062		Bill	09/08/2021	0277858		Treat office and annex for pest control	6024 · Building Repair & Maintenance	100.00
Bill PM1-Check PM3-Check PM3-Check	TOTAL							100.00
Bill PM1-Check PM3-Check PM3-Check		Bill Pmt -Check	09/09/2021	23062	TELLEZ-FOSTER, EDGAR	Employee Reimbursement	1012 · Bank of America Gen'l Ckg	
Control Cont						• •	-	101.41
		J	00/00/2021			· · ·	•	6.50
Bill Mil	TOTAL					,		107.91
Bill Mil		Rill Pmt -Check	09/09/2021	23063	III INF	55585495	1012 - Bank of America Gen'l Ckg	
Bill Pmt-Check 09/09/2021 23064 WESTERN MUNICIPAL WATER DISTRICT Board Member Compensation 1012 - Bank of America Gen'l Ckg 8/19 Special Adviss 8/24/15 Special Advissory Comm. Mig Gardner 6311 - Board Member Compensation 125.00 12					CENTE		-	199.52
Bill Pmt - Check 09/09/2021 23064 WESTERN MUNICIPAL WATER DISTRICT Board Member Compensation 1012 - Bank of America Gen'l Ckg 8/19/2021 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 8/19/2022 23065 CORELOGIC INFORMATION SOLUTIONS 82097745 8/2097745 1012 - Bank of America Gen'l Ckg 8/2007745 1012 - Bank of America Gen'l Ckg 1/2007745 1/2	ΤΟΤΔΙ	Diii	00/20/2021	33303433		Chair mat. 1 K	ooo i.i. a onice onice ouppines	
Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Comm. Mig Gardner 6311 - Board Member Compensation 125.00	TOTAL							199.52
Bill		Bill Pmt -Check	09/09/2021	23064	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill Pmt -Check 09/10/2021 23065 CORELOGIC INFORMATION SOLUTIONS 22097745 1012 - Bank of America Gen'l Ckg 22067		Bill	08/19/2021	8/19 Special Advis		8/19/21 Special Advisory Comm. Mtg Gardner	6311 · Board Member Compensation	125.00
Bill Pmt -Check D9/10/2021 23065 CORELOGIC INFORMATION SOLUTIONS 82097745 1012 - Bank of America Gen'l Ckg		Bill	08/24/2021	8/24 GRCC Mtg		8/24/21 GRCC meeting - Gardner	6311 · Board Member Compensation	125.00
Bill 08/31/2021 82097745 82097745 82097745 7103.7 · Grdwir Qual-Computer Svc 62.50 82097745 7101.4 · Prod Monitor-Computer 62.50 7103.5 · Grdwir Qual-Lab Svcs 7103.5 · Grdwir Qual-Lab S	TOTAL							250.00
Bill Pmt -Check 09/10/2021 23066 EUROFINS EATON ANALYTICAL L0589035 1012 · Bank of America Gen'l Ckg 1,386.00		Bill Pmt -Check	09/10/2021	23065	CORELOGIC INFORMATION SOLUTIONS	82097745	1012 · Bank of America Gen'l Ckg	
Bill Pmt -Check 09/10/2021 23066 EUROFINS EATON ANALYTICAL L0589035 L0589035 1012 - Bank of America Gen'l Ckg 1,386.00		Bill	08/31/2021	82097745		August 2021	7103.7 · Grdwtr Qual-Computer Svc	62.50
Bill Pmt -Check 09/10/2021 23066 EUROFINS EATON ANALYTICAL L0589035 L0589035 1012 - Bank of America Gen'l Ckg 1,386.00 1,386.						82097745	7101.4 · Prod Monitor-Computer	62.50
Bill Pmt - Check 09/10/2021 23067 INLAND EMPIRE UTILITIES AGENCY 1800004716 1012 · Bank of America Gen'l Ckg 35,030.15	TOTAL							125.00
Bill Pmt -Check 09/10/2021 23067 INLAND EMPIRE UTILITIES AGENCY 1800004716 1012 · Bank of America Gen'l Ckg		Bill Pmt -Check	09/10/2021	23066	EUROFINS EATON ANALYTICAL	L0589035	1012 · Bank of America Gen'l Ckg	
Bill Pmt -Check 09/10/2021 23067 INLAND EMPIRE UTILITIES AGENCY 1800004716 RTS charges for FY 2021/2022 5018 · RTS Charges - IEUA 35,030.19		Bill	09/01/2021	L0589035		L0589035	7103.5 · Grdwtr Qual-Lab Svcs	1,386.00
Bill 09/10/2021 1800004716 RTS charges for FY 2021/2022 5018 · RTS Charges · IEUA 35,030.19	TOTAL							1,386.00
Bill Pmt -Check 09/10/2021 23068 EASTVALE DEVELOPMENT COMPANY-PIERSCAG Pool and Board Member Compensation 1012 · Bank of America Gen'l Ckg		Bill Pmt -Check	09/10/2021	23067	INLAND EMPIRE UTILITIES AGENCY	1800004716	1012 · Bank of America Gen'l Ckg	
Bill Pmt -Check 09/10/2021 23068 EASTVALE DEVELOPMENT COMPANY-PIERS(Ag Pool and Board Member Compensation 1012 · Bank of America Gen'l Ckg Bill 08/08/2021 8/08 call w/Chair 8/08/21 call with Ag Pool Chair 8470 · Ag Meeting Attend · Special 125.00 Bill 08/09/2021 8/09 Call w/Chair 8/09/21 call with Ag Pool Chair 8470 · Ag Meeting Attend · Special 125.00 Bill 08/12/2021 8/12 Special Ag Mtg 8/12/21 Special Ag Pool Meeting 8470 · Ag Meeting Attend · Special 125.00 Bill 08/12/2021 8/12 call w/Chair 8/12/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend · Special 125.00 Bill 08/17/2021 8/17 Admin Mtg 8/17/21 Administrative Mtg w/GM 8470 · Ag Meeting Attend · Special 125.00 Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Committee meeting 8470 · Ag Meeting Attend · Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend · Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend · Special		Bill	09/10/2021	1800004716		RTS charges for FY 2021/2022	5018 · RTS Charges - IEUA	35,030.19
Bill 08/08/2021 8/08 call w/Chair 8/08/21 call with Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/09/2021 8/09 Call w/Chair 8/09/21 call with Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/12/2021 8/12 Special Ag Mtg 8/12/21 Special Ag Pool Meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/12/2021 8/12 call w/Chair 8/12/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/17/2021 8/17 Admin Mtg 8/17/21 Administrative Mtg w/GM 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00	TOTAL							35,030.19
Bill 08/09/2021 8/09 Call w/Chair 8/09/21 call with Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/12/2021 8/12 Special Ag Mtg 8/12/21 Special Ag Pool Meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/12/2021 8/12 call w/Chair 8/12/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/17/2021 8/17 Admin Mtg 8/17/21 Administrative Mtg w/GM 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00		Bill Pmt -Check	09/10/2021	23068	EASTVALE DEVELOPMENT COMPANY-PIEF	RS(Ag Pool and Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill 08/12/2021 8/12 Special Ag Mtg 8/12/21 Special Ag Pool Meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/12/2021 8/12 call w/Chair 8/12/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/17/2021 8/17 Admin Mtg 8/17/21 Administrative Mtg w/GM 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00		Bill	08/08/2021	8/08 call w/Chair		8/08/21 call with Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill 08/12/2021 8/12 call w/Chair 8/12/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/17/2021 8/17 Admin Mtg 8/17/21 Administrative Mtg w/GM 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00		Bill	08/09/2021	8/09 Call w/Chair		8/09/21 call with Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill 08/17/2021 8/17 Admin Mtg 8/17/21 Administrative Mtg w/GM 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00		Bill	08/12/2021	8/12 Special Ag Mtg		8/12/21 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill 08/19/2021 8/19 Special Advis 8/19/21 Special Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00		Bill	08/12/2021	8/12 call w/Chair		8/12/21 call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill 08/19/2021 8/19 call w/Chair 8/19/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00 Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend - Special 125.00		Bill	08/17/2021	8/17 Admin Mtg		8/17/21 Administrative Mtg w/GM	8470 · Ag Meeting Attend -Special	125.00
Bill 08/20/2021 8/20 call w/Chair 8/20/21 call w/Ag Pool Chair 8470 · Ag Meeting Attend -Special 125.00		Bill	08/19/2021	8/19 Special Advis		8/19/21 Special Advisory Committee meeting	8470 · Ag Meeting Attend -Special	125.00
		Bill	08/19/2021	8/19 call w/Chair		8/19/21 call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill 08/24/2021 8/24 GRCC Mtg 8/24/21 GRCC Meeting 8470 · Ag Meeting Attend -Special 125.00		Bill	08/20/2021	8/20 call w/Chair		8/20/21 call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
		Bill	08/24/2021	8/24 GRCC Mtg		8/24/21 GRCC Meeting	8470 · Ag Meeting Attend -Special	125.00

	Туре	Date	Num	Name	Memo Memo	Account	Paid Amount
	Bill	08/27/2021	8/27 call w/Chair		8/27/21 call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	08/30/2021	8/30 call w/Chair		8/30/21 call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	08/31/2021	8/31 call w/Chair		8/31/21 call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						1,500.00
	Check	09/15/2021	09/15/2021	Service Charge	Service Charge	1012 · Bank of America Gen'l Ckg	
				-	Service Charge	6039.1 · Banking Service Charges	1,220.14
TOTA	L						1,220.14
	Bill Pmt -Check	09/16/2021	23069	APPLEONE	01-6034463	1012 · Bank of America Gen'l Ckg	
	Bill	09/08/2021	01-6034463		Temporary Services - Brian Summers	6017.2 · Office Specialist Services	1,245.04
TOTA	L						1,245.04
	Bill Pmt -Check	09/16/2021	23070	BANK OF AMERICA	XXXX-XXXX-XXXX-4026	1012 · Bank of America Gen'l Ckg	
	Bill	08/31/2021	XXXX-XXXX-XXXX-402	26	RegPK-4th Annual Western Groundwater Cong	re 6193.2 · Conference - Registration Fee	305.00
					Wireless mouse	6031.7 · Other Office Supplies	35.55
					Subscription for Adobe Acrobat Pro DC-JJ	6054 · Computer Software	179.88
					Monthly cost for Zoom	6022 · Telephone	40.00
					Miscellaneous office supplies	6031.7 · Other Office Supplies	7.53
					Miscellaneous office supplies	6031.7 · Other Office Supplies	11.84
					Miscellaneous office supplies	6031.7 · Other Office Supplies	28.40
					Subscription for Doodle online scheduling tool	6111 · Membership Dues	86.50
					Miscellaneous office supplies	6031.7 · Other Office Supplies	43.09
					Plexiglass sheets-San Sevaine Mtg room	6025 · Building Interior Renovations	1,360.57
					Miscellaneous office supplies	6031.7 · Other Office Supplies	20.14
					Cost to extend rental of packing totes for office	6038 · Other Office Equipment	205.03
					Cost to extend rental of packing totes for office	6038 · Other Office Equipment	244.72
					Miscellaneous office supplies	6031.7 · Other Office Supplies	131.40
					(5) new doors for office	1840 · Capital Assets	1,498.81
					Cost to print miscellaneous printing jobs	6045 · Printing	310.04
					Miscellaneous office supplies	6031.7 · Other Office Supplies	7.75
					Miscellaneous office supplies	6031.7 · Other Office Supplies	19.38
					Transcript for 5/28/21 court hearing	6046 · Legal Publications/Services	50.00
					Transcript for 6/25/21 court hearing	6046 · Legal Publications/Services	214.00
					PK mtg w/M. Gardner, C. Miller	6312 · Meeting Expenses	58.18
					PK mtg w/C. Berch	8312 · Meeting Expenses	29.01
					PK mtg w/Jeff Mosher	6909.1 · OBMP Meetings	33.06
					PK mtg w/J. Curatalo, B. Kuhn	6312 · Meeting Expenses	73.42
TOTA	L						4,993.30

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	09/16/2021	23071	BROWNSTEIN HYATT FARBER SCHRECK		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/31/2021	858245		858245	6078 · BHFS Legal - Miscellaneous	25,890.30
	Bill	08/31/2021	858246		Remote Work Memo	6073 · BHFS Legal - Personnel Matters	148.50
	Bill	08/31/2021	858247		858247	6078 · BHFS Legal - Miscellaneous	105.30
	Bill	08/31/2021	858248		858248	6907.36 · Santa Ana River Habitat	1,188.00
	Bill	08/31/2021	858249		858249	6275 · BHFS Legal - Advisory Committee	396.00
	Bill	08/31/2021	858250		858250	8375 · BHFS Legal - Appropriative Pool	99.00
	Bill	08/31/2021	858251		858251	8475 · BHFS Legal - Agricultural Pool	148.50
	Bill	08/31/2021	858252		858252	8575 · BHFS Legal - Non-Ag Pool	148.50
	Bill	08/31/2021	858253		858253	6071 · BHFS Legal - Court Coordination	597.15
	Bill	08/31/2021	858254		858254	6072 · BHFS Legal - Rules & Regs	3,762.00
	Bill	08/31/2021	858255		858255	6077 · BHFS Legal - Party Status Maint	891.00
	Bill	08/31/2021	858256		858256	6907.47 · 2020 Safe Yield Reset	1,138.50
	Bill	08/31/2021	858257		858257	6078.25 · Ely 3 Basin Investigation	1,366.20
					Filing Fee	6078.25 · Ely 3 Basin Investigation	90.74
TOTA	L						35,969.69
	Bill Pmt -Check	09/16/2021	23072	BURRTEC WASTE INDUSTRIES, INC.	N2112209650	1012 · Bank of America Gen'l Ckg	
	Bill	09/14/2021	N2112209650		September 2021	6024 · Building Repair & Maintenance	142.50
TOTA	L						142.50
	Bill Pmt -Check	09/16/2021	23073	CUCAMONGA VALLEY WATER DISTRICT	Office Lease	1012 · Bank of America Gen'l Ckg	
	Bill	09/15/2021			Lease due on October 1, 2021	1422 · Prepaid Rent	7,588.83
TOTA	L						7,588.83
	Bill Pmt -Check	09/16/2021	23074	EGOSCUE LAW GROUP, INC.	August 2021	1012 · Bank of America Gen'l Ckg	
	Bill	08/31/2021			Ag Pool Legal Services - August 2021	8467 · Ag Legal & Technical Services	7,675.00
TOTA	L						7,675.00
	Bill Pmt -Check	09/16/2021	23075	GRAINGER	9094040791	1012 · Bank of America Gen'l Ckg	
	Bill	08/25/2021	9034040791		Miscellanous water quality monitoring supplies	7103.6 · Grdwtr Qual-Supplies	127.60
TOTA	L						127.60
	Bill Pmt -Check	09/16/2021	23076	JOHN DIAZ PAINTING	Office Painting Project	1012 · Bank of America Gen'l Ckg	
	Bill	09/15/2021			Final payment due at job completion	1840 · Capital Assets	6,595.00
TOTA	L						6,595.00
	Bill Pmt -Check	09/16/2021	23077	LEGAL SHIELD	111802	1012 · Bank of America Gen'l Ckg	
	Bill	09/14/2021	111802		Employee deductions - September 2021	60194 · Other Employee Insurance	161.40
TOTA	L						161.40

Page 38 Page 8 of 11

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	09/16/2021	23078	LOEB & LOEB LLP	1968190	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/31/2021	1968190		Non-Ag Pool Legal Services - August 2021	8567 · Non-Ag Legal Service	1,308.15
TOTAL	-						1,308.15
	Bill Pmt -Check	09/16/2021	23079	STAULA, MARY L	Retiree Medical Reimbursement	1012 · Bank of America Gen'l Ckg	
	Bill	09/30/2021			Retiree Medical Reimbursement	60182.4 · Retiree Medical	19.24
TOTAL	-						19.24
	Bill Pmt -Check	09/16/2021	23080	VERIZON WIRELESS	9887708998	1012 · Bank of America Gen'l Ckg	
	Bill	08/31/2021	9887708998		Acct #470810953-00002	6022 · Telephone	375.77
TOTAL	-						375.77
	Bill Pmt -Check	09/17/2021	23081	OFFICE & ERGONOMIC SOLUTIONS, INC.	32894	1012 · Bank of America Gen'l Ckg	
	Bill	09/17/2021	32894		50% down payment on office furniture	1840 · Capital Assets	2,914.03
TOTAL	-						2,914.03
	General Journal	09/17/2021	09/17/2021	ADP, LLC	ADP Tax Service for 08/07/21-588143012	1012 · Bank of America Gen'l Ckg	
					ADP Tax Service for 08/07/21-588143012	1012 · Bank of America Gen'l Ckg	155.50
					ADP Tax Service for 08/21/21-588143012	1012 ⋅ Bank of America Gen'l Ckg	161.55
					ADP Tax Service for 09/04/21-588143012	1012 ⋅ Bank of America Gen'l Ckg	155.50
TOTAL	-						472.55
	Bill Pmt -Check	09/22/2021	23082	APPLEONE	01-6043311	1012 · Bank of America Gen'l Ckg	
	Bill	09/17/2021	01-6043311		Brian Summers	6017.2 · Office Specialist Services	1,256.48
TOTAL	-						1,256.48
	General Journal	09/21/2021	09/21/2021	HEALTH EQUITY	Health Equity Invoice 3056286	1012 · Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 3056286	1012 ⋅ Bank of America Gen'l Ckg	53.55
TOTAL	-						53.55
	Bill Pmt -Check	09/22/2021	ACH 092221	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2021	16538390		Annual Unfunded Accrued Liability-Plan 3299	60180 · Employers PERS Expense	8,989.42
TOTAL	-						8,989.42
	Bill Pmt -Check	09/22/2021	23083	BLUERIDGE SOFTWARE, INC.	10694	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/15/2021	10694		Annual support/maintenance 10/25/21-10/24/22	6054 · Computer Software	629.82
TOTAL	-						629.82
	Bill Pmt -Check	09/22/2021	23084	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 - Bank of America Gen'l Ckg	

_	Туре	Date	Num	Name	Memo	Account	Paid Amount
•	Bill	09/22/2021	90948438900509145		Office fax	6022 · Telephone	167.64
TOTAL							167.64
	Bill Pmt -Check	09/22/2021	23085	GREAT AMERICA LEASING CORP.	30098879	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/16/2021	30098879		Invoice for September 2021	6043.1 · Ricoh Lease Fee	1,481.41
					Supply freight fee	6043.2 · Ricoh Usage & Maintenance Fee	8.57
					2021 San Bernardino County Property Tax	6043.3 · Ricoh Property Tax Fees	230.96
TOTAL							1,720.94
	Bill Pmt -Check	09/22/2021	23086	JOHN J. SCHATZ	Appropriative Pool Legal Services	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/31/2021			August 2021	8367 · Legal Service	15,791.00
TOTAL							15,791.00
	Bill Pmt -Check	09/22/2021	23087	PITNEY BOWES GLOBAL FINANCIAL SERVI	CE 3104962786	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/17/2021	3104962786		Property tax	6044 · Postage Meter Lease	25.53
TOTAL							25.53
	Bill Pmt -Check	09/22/2021	23088	READY REFRESH	0023230253	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/31/2021	0023230253		Office Water Bottle - August 2021	6031.7 · Other Office Supplies	80.44
TOTAL							80.44
	Bill Pmt -Check	09/22/2021	23089	SANTA ANA WATERSHED PROJECT AUTHO	PRI MSAR 2022-01	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/22/2021	MSAR 2022-01		FY 2021-22 SA River Pathogen TMDL Task Fo	orce 8471 · Ag Pool Expense	10,643.00
TOTAL							10,643.00
	Bill Pmt -Check	09/22/2021	23090	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/22/2021	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	942.71
TOTAL							942.71
	Bill Pmt -Check	09/22/2021	23091	UNITED HEALTHCARE	052588403837	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/17/2021	052588403837		Dental Insurance Premium - October 2021	60182.2 · Dental & Vision Ins	732.28
TOTAL							732.28
	Bill Pmt -Check	09/22/2021	23092	VERIZON WIRELESS	9888328567	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/22/2021	9888328567		Acct #642073270-00002	7103.7 · Grdwtr Qual-Computer Svc	58.03
TOTAL							58.03
	General Journal	09/23/2021	09/23/2021	Payroll and Taxes for 09/05/21-09/18/21	Payroll and Taxes for 09/05/21-09/18/21	1012 ⋅ Bank of America Gen'l Ckg	
				ADP, LLC	Direct Deposits for 09/05/21-09/18/21	1012 ⋅ Bank of America Gen'l Ckg	31,080.84
				ADP, LLC	Payroll Taxes for 09/05/21-09/18/21	1012 · Bank of America Gen'l Ckg	11,975.33

Page 40

	Туре	Date	Num	Name	Memo	Account	Paid Amount
				MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 09/05/21-09/18/21	1012 · Bank of America Gen'l Ckg	5,765.46
				MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 09/05/21-09/18/21	1012 · Bank of America Gen'l Ckg	1,694.48
TOTAL	-						50,516.11
	Bill Pmt -Check	09/23/2021	ACH092321	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
	General Journal	09/22/2021	09/23/2021	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 09/05/21-09/18/21	2000 · Accounts Payable	9,186.50
TOTAL	-						9,186.50
	General Journal	09/28/2021	09/28/2021	HEALTH EQUITY	Health Equity Invoice 3078054	1012 ⋅ Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 3078054	1012 · Bank of America Gen'l Ckg	14.89
TOTAL	-						14.89
	General Journal	09/28/2021	09/28/2021	HEALTH EQUITY	Health Equity Invoice 2999985	1012 ⋅ Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 2999985	1012 · Bank of America Gen'l Ckg	76.25
TOTAL	-						76.25
						Total Disbursements:	655,708.87



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: VISA Check Detail Report - Financial Report B2 (September 30, 2021)

(Consent Calendar Item I.B.2.)

SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of September 2021.

Recommendation: Receive and file VISA Check Detail Report for September 2021 as presented.

Financial Impact: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster

Budget.

Future Consideration

Appropriative Pool – November 10, 2021: Receive and File Non-Agricultural Pool – November 10, 2021: Receive and File Agricultural Pool – November 10, 2021: Receive and File Advisory Committee – November 18, 2021: Receive and File

Watermaster Board - November 18, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

A monthly VISA Check Detail report is provided to keep all members apprised of Watermaster expenditures charged against the General Manager and Chief Financial Officer's Bank of America VISA card.

DISCUSSION

The total cash disbursements during the month of September 2021 was \$4,993.30. The payment was processed in the amount of \$4,993.30 (by check number 23070 dated September 16, 2021). The monthly charges for September 2021 of \$4,993.30 were for routine and customary expenditures and properly documented with receipts.

ATTACHMENTS

1. Financial Report - B2

CHINO BASIN WATERMASTER VISA Check Detail Report September 2021

Туре	Num	Date	Name	Memo	Account	
Bill Pmt -Check	09/16/2021	23070	BANK OF AMERICA	XXXX-XXXX-XXXX-4026	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2021	XXXX-XXXX-X	XXX-4026	RegPK-4th Annual Western Groundwater Congress	6193.2 · Conference - Registration Fee	305.00
				Wireless mouse	6031.7 · Other Office Supplies	35.55
				Subscription for Adobe Acrobat Pro DC-JJ	6054 · Computer Software	179.88
				Monthly cost for Zoom	6022 · Telephone	40.00
				Miscellaneous office supplies	6031.7 · Other Office Supplies	7.53
				Miscellaneous office supplies	6031.7 · Other Office Supplies	11.84
				Miscellaneous office supplies	6031.7 · Other Office Supplies	28.40
				Subscription for Doodle online scheduling tool	6111 · Membership Dues	86.50
				Miscellaneous office supplies	6031.7 · Other Office Supplies	43.09
				Plexiglass sheets-San Sevaine Mtg room	6025 · Building Interior Renovations	1,360.57
				Miscellaneous office supplies	6031.7 · Other Office Supplies	20.14
				Cost to extend rental of packing totes for office	6038 · Other Office Equipment	205.03
				Cost to extend rental of packing totes for office	6038 · Other Office Equipment	244.72
				Miscellaneous office supplies	6031.7 · Other Office Supplies	131.40
				(5) new doors for office	1840 · Capital Assets	1,498.81
				Cost to print miscellaneous printing jobs	6045 · Printing	310.04
				Miscellaneous office supplies	6031.7 · Other Office Supplies	7.75
				Miscellaneous office supplies	6031.7 · Other Office Supplies	19.38
				Transcript for 5/28/21 court hearing	6046 · Legal Publications/Services	50.00
				Transcript for 6/25/21 court hearing	6046 · Legal Publications/Services	214.00
				PK mtg w/M. Gardner, C. Miller	6312 · Meeting Expenses	58.18
				PK mtg w/C. Berch	8312 · Meeting Expenses	29.01
				PK mtg w/Jeff Mosher	6909.1 · OBMP Meetings	33.06
				PK mtg w/J. Curatalo, B. Kuhn	6312 · Meeting Expenses	73.42
					Total Disbursements:	\$4,993.30



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July

1, 2021 through September 30, 2021 - Financial Report B3 (September 30, 2021)

(Consent Calendar Item I.B.3.)

SUMMARY

<u>Issue</u>: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2021 through September 30, 2021.

<u>Recommendation</u>: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2021 through September 30, 2021 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster Budget.

Future Consideration

Appropriative Pool – November 10, 2021: Receive and File Non-Agricultural Pool – November 10, 2021: Receive and File Agricultural Pool – November 10, 2021: Receive and File Advisory Committee – November 18, 2021: Receive and File

Watermaster Board – November 18, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2021 through September 30, 2021 is provided to keep all members apprised of the FY 2021/22 cumulative Watermaster revenues, expenditures and changes in net assets for the period listed.

DISCUSSION

The Combining Schedule of Revenue, Expenses and Changes in Net Assets has been created from various financial reports and statements created from Intuit QuickBooks Enterprise Solutions 22.0, the Watermaster accounting system. The Combining Schedule provided balances to the supporting documentation in the Watermaster accounting system as presented.

ATTACHMENTS:

1. Financial Report – B3

CHINO BASIN WATERMASTER COMBINING SCHEDULE OF REVENUE, EXPENSES AND CHANGES IN NET ASSETS FOR THE PERIOD JULY 1, 2021 THROUGH SEPTEMBER 30, 2021

		ODTIMUM	DOOL ADMINISTRA	ATION & CDECIA	L DDO JEOTO I		1		0400.75		AMENDED
	WATERMASTER	OPTIMUM BASIN	POOL ADMINISTRA	ATION & SPECIAL	NON-AG	AP ESCROW	GROUNDWATER	LAIF	GASB 75 BEG. NET	GRAND	AMENDED BUDGET
	ADMINISTRATION I	-	POOL	POOL	POOL	ACCOUNT	REPLENISHMENT		POSITION	TOTALS	2021-2022
Administrative Revenues:					•				•		
Administrative Assessments			-	200,000	-					200,000	7,652,877
Interest Revenue	477 400		5,285	60	63					5,408	106,125
Mutual Agency Project Revenue Miscellaneous Income	177,430 9									177,430 9	177,430 0
Total Revenues	177,439	-	5,285	200,060	63	_	-	-	-	382,847	7,936,432
			-,							/-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Administrative & Project Expenditures:	500.004									500.004	4.040.404
Watermaster Administration Watermaster Board-Advisory Committee	538,081 38,679									538,081 38,679	1,846,194 245,485
Ag Pool Legal Services - Ag Fund ¹	30,073			57,925						57,925	245,465
Pool Administration			59,943	25,077	12,248					97,268	567,698
Optimum Basin Mgmt Administration		225,444								225,444	1,480,696
OBMP Project Costs		847,800								847,800	4,517,867
Debt Service		529,029								529,029	529,029
Basin Recharge Improvements Total Administrative/OBMP Expenses	576,759	1,602,273	59,943	25,077	12,248					2,334,225	1,693,292 10,880,261
Net Administrative/OBMP Expenses	(399,320)	(1,602,273)	39,943	23,077	12,240	-	-	-	-	2,334,223	10,000,201
Allocate Net Admin Expenses To Pools	399,320	(1,002,270)	296,739	86,830	15,751					-	
Allocate Net OBMP Expenses To Pools		1,073,244	797,539	233,371	42,334					-	
Allocate Debt Service to App Pool		529,029	529,029							-	
Allocate Basin Recharge to App Pool	=	-	-							-	
Agricultural Expense Transfer*		_	345,277	(345,277)						<u> </u>	
Total Expenses		-	2,028,528	57,925	70,332	-	-	-	-	2,334,225	10,880,261
Net Administrative Income			(2,023,243)	142,135	(70,270)		-	-	-	(1,951,378)	(2,943,829)
Other Income/(Expense)											
Replenishment Water Assessments							-			-	0
Desalter Replenishment Obligation Exhibit "G" Non-Ag Pool Water							-			-	0
RTS Charges from IEUA							(35,030)			(35,030)	0
Interest Revenue			-	-	-		-			-	0
MWD Water Purchases										-	0
Non-Ag Stored Water Purchases										-	0
Exhibit "G" Non-Ag Pool Water			-							-	0
Groundwater Replenishment LAIF - Fair Market Value Adjustment							-	_		-	0
Gain on Sale of Assets			_		-			-		-	0
Other Post-Employment Benefits (OPEB)			-		-				-	-	0
Ag Pool Assessments Outstanding ²			-	(200,000)						(200,000)	0
AP Special Assessment - Ag Pool Exp.			-	-		-				-	0
AP Escrow Account - Interest Earned Refund-Basin O&M Expenses						73				73	0
Refund-Recharge Debt Service			-		-					-	0
Funding To/(From) Reserves										-	0
Net Other Income/(Expense)		- -	-	(200,000)	=	73	(35,030)	-	=	(234,957)	0
Net Transfers To/(From) Reserves		(2,186,335)	(2,023,243)	(57,865)	(70,270)	73	(35,030)			(2,186,335)	(2,943,829)
Net Hansiers To/(Floin) Reserves		(2,100,333)	(2,023,243)	(37,803)	(10,210)	13	(33,030)	-	-	(2,100,333)	(2,943,029)
Net Assets, July 1, 2021		_	8,924,389	127,547	128,927	161,296	(19,272)	829	(443,445)	8,880,272	
Net Assets, End of Period		=	6,901,146	69,681	58,658	161,369	(54,302)	829	(443,445)	6,693,937	6,693,937
20/21 Assessable Production			73,423.920	21,484.815	3,897.385					98,806.120	
20/21 Production Percentages			74.311%	21.744%	3.944%					100.000%	

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

Note 1 - Agricultural Pool Legal Services for Jul. 2021 through Sep. 2021

N:\Administration\Meetings - Agendas & Minutes\2021\Staff Reports\11 - November\Pools\2021\1110 - B3 Combining Schedule_September 20 Note 2 - Outstanding balance of Agricultural Pool Special Assessments issued in September 2021 for \$200,000



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Treasurer's Report of Financial Affairs for the Period September 1, 2021 through

September 30, 2021 - Financial Report B4 (September 30, 2021) (Consent Calendar Item

I.B.4.)

SUMMARY

<u>Issue</u>: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of September 1, 2021 through September 30, 2021.

<u>Recommendation</u>: Receive and file Treasurer's Report of Financial Affairs for the Period September 1, 2021 through September 30, 2021 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster Budget.

Future Consideration

Appropriative Pool – November 10, 2021: Receive and File Non-Agricultural Pool – November 10, 2021: Receive and File Agricultural Pool – November 10, 2021: Receive and File Advisory Committee – November 18, 2021: Receive and File

Watermaster Board - November 18, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period September 1, 2021 through September 30, 2021 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CaITRUST); cash on deposit in trust with the County of San Bernardino as a result of the Cooperation and Reimbursement Agreement between Chino Basin Watermaster and County of San Bernardino dated May 25, 2017; and cash on hand at the Watermaster office (petty cash) at the end of the period stated. The Treasurer's Report details the change (increase or decrease) in the overall cash position of Watermaster, as well as the changes (increase or decrease) to the assets and liabilities section of the balance sheet. The report also provides a detailed listing of all deposits and/or withdrawals in the California State Treasurer's Local Agency Investment Fund (LAIF) and/or CalTRUST, the most current effective yield as of the last quarter, and the ending balance in LAIF as of the reporting date.

DISCUSSION

The Treasurer's Report of Financial Affairs has been created from various financial reports and statements created from Intuit QuickBooks Enterprise Solutions 22.0, the Watermaster accounting system. The Treasurer's Report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

ATTACHMENTS

1. Financial Report - B4

CHINO BASIN WATERMASTER TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD SEPTEMBER 1, 2021 THROUGH SEPTEMBER 30, 2021

	DEPOSITORIES: Cash on Hand - Petty Cash				\$	500
	Bank of America				Ψ	300
	Governmental Checking-Demand Deposits		\$	356,167		
	Zero Balance Account - Payroll		Ψ	330,107		356,167
	Restricted Funds - AP Escrow			-		161,369
	Trust Account - County of San Bernardino					845
	Local Agency Investment Fund - Sacramento					8,145,898
	TOTAL CASH IN BANKS AND ON HAND	9/30/2021			\$	8,664,779
	TOTAL CASH IN BANKS AND ON HAND	8/31/2021				9,315,090
	PERIOD INCREASE (DECREASE)				<u>\$</u>	(650,310)
CHANGE IN CASH POSITION DUE TO:						
Decrease/(Increase) in Assets:	Accounts Receivable				\$	(29,961)
,	Assessments Receivable					(200,000)
	Prepaid Expenses, Deposits & Other Current Assets					(22,885)
(Decrease)/Increase in Liabilities						1,596
(=,, =	Accrued Payroll, Payroll Taxes & Other Current Liabilities					11,598
	Long Term Liabilities					8,523
	Transfer to/(from) Reserves					(419,180)
						(113,100)
	PERIOD INCREASE (DECREASE)				\$	(650,310)

	 Petty Cash	G	ovt'l Checking Demand	Ζ(ero Balance Account Payroll		Funds AP Escrow		County of Bernardino	nvestment Funds		Totals
SUMMARY OF FINANCIAL TRANSACTIONS:		_		_		_		_			_	
Balances as of 8/31/2021	\$ 500	\$	431,501	\$	-	\$	161,345	\$	845	\$ 8,720,898	\$	9,315,090
Deposits	-		580,375		-		24		-	-		580,399
Transfers	-		(142,133)		(87,143)		-		-	(575,000)		(804,276)
Withdrawals/Checks	-		(513,576)		87,143		-		-	-		(426,433)
Balances as of 9/30/2021	\$ 500	\$	356,167	\$	-	\$	161,369	\$	845	\$ 8,145,898	\$	8,664,779
PERIOD INCREASE OR (DECREASE)	\$ 	\$	(75,334)	\$	_	\$	24	\$		\$ (575,000)	\$	(650,310)

CHINO BASIN WATERMASTER TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD SEPTEMBER 1, 2021 THROUGH SEPTEMBER 30, 2021

INVESTMENT TRANSACTIONS

Effective					Days to	Interest	Maturity
Date	Transaction	Depository	Activ	rity Redeemed	d Maturity	Rate(*)	Yield
9/9/2021	Withdrawal		(5	75,000)			
TOTAL INVEST	MENT TRANSAC	CTIONS	\$ (5	75.000)	\$0		

^{*} The earnings rate for L.A.I.F. is a daily variable rate; 0.24% was the effective yield rate at the Quarter ended September 30, 2021.

INVESTMENT STATUS September 30, 2021

	Principal	Number of	Interest	Maturity
Financial Institution	 Amount	Days	Rate	Date
Local Agency Investment Fund	\$ 8,145,898			
TOTAL INVESTMENTS	\$ 8,145,898			

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

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

Respectfully submitted,

Joseph S. Joswiak Chief Financial Officer

Chino Basin Watermaster

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Budget vs. Actual Report for the Period July 1, 2021 through September 30, 2021 -

Financial Report B5 (September 30, 2021) (Consent Calendar Item I.B.5.)

SUMMARY

<u>Issue</u>: Record of revenues and expenses of Watermaster for the Period of July 1, 2021 through September 30, 2021.

<u>Recommendation</u>: Receive and file Budget vs. Actual Report for the Period July 1, 2021 through September 30, 2021 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster Budget.

Future Consideration

Appropriative Pool – November 10, 2021: Receive and File Non-Agricultural Pool – November 10, 2021: Receive and File Agricultural Pool – November 10, 2021: Receive and File Advisory Committee – November 18, 2021: Receive and File

Watermaster Board – November 18, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

A Budget vs. Actual Report for the period July 1, 2021 through September 30, 2021 is provided to keep all members apprised of the total revenues and expenses for the current fiscal year. The expense section is categorized into four distinct sections. Those sections are: General and Administrative Expenses; Optimum Basin Management Program Expenses; Project Expenses; and Other Income/Expenses. The Budget vs. Actual report has been created from Intuit QuickBooks Enterprise Solutions 22.0, the Watermaster accounting system. The Budget vs. Actual report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

DISCUSSION

CURRENT MONTH - SEPTEMBER 2021

Year-To-Date (YTD) for the three months ending September 30, 2021, all but two categories were at or below the projected budget.

The categories over budget were: (1) the Administration Salary/Benefits expenses (6010's) which were over budget by \$4,545 or 1.3% as a result of increased staff time and activities in the administrative functions. Please note that the overage is only in the administrative section, not with the entire consolidated staffing budget; and (2) Watermaster Legal Services (6070s) were over budget by \$10,045 or 12.1% as a result of increased activities in the areas of Rules and Regulations; the unbudgeted expenses for the Ely 3 Basin Investigation; and miscellaneous legal expenses during the last three months. Please note that the overage is only in the administrative section, not the entire consolidated BHFS budget.

Overall, the Watermaster (YTD) Actual Expenses were \$3,134,978 or 57.3% below the (YTD) Budgeted Expenses of \$5,469,203.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

The "Original" Approved budget for FY 2021/22 of \$7,276,213 was adopted by the Watermaster Board on May 27, 2021. Budget Amendment A-21-07-01 in the amount of \$147,031 and Budget Amendment A-21-07-02 in the amount of \$276,761 was adopted by the Watermaster Board on July 22, 2021. Budget Amendment A-21-08-01 in the amount of \$8,427 was approved by the Advisory Committee on August 19, 2021. The accounts increased with the Budget Amendments were the OBMP-Northwest MZ-1 Area Project (7402.1) increased by \$147,031; and the Safe Yield Reset Methodology Evaluation (7614) increased by \$285,188.

During the month of July 2021, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$2,943,828.87 has been posted to the general ledger accounts. The total amount of \$2,943,828.87 consisted of \$1,693,292.20 from Capital Improvement Projects, \$573,765.00 from Engineering Services, \$374,114.56 from OBMP Activities, \$207,566.95 from Pool Funding Accounts, and \$95,090.16 from Administration Services. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

The "Amended" Budget for FY 2021/22 is \$10,652,260.87 which includes \$2,943,828.87 for the prior years "Carry Over" funding.

SALARIES EXPENSE

CURRENT MONTH - SEPTEMBER 2021

As of September 30, 2021, the total (YTD) Watermaster salary expenses were \$4,137 or 0.7% below the (YTD) budgeted amount of \$585,410. The overall staffing budget was developed with a staffing level of ten Full-Time Equivalents (FTE's), and staffing is currently at ten Full-Time Equivalents (FTE's).

Watermaster utilizes an in-house database time and attendance system to track and record staff's actual hours worked and records those hours to a specific project or activity. This time and attendance database of captured staff hours and activities is the basis for the bi-weekly payrolls which are processed using an external payroll processing service. Watermaster staff can record time to a large number of activities but the five most used categories are as follows (1) General Administrative activities; (2) Paid Leaves of vacation, sick or holiday; (3) Pools, Advisory or Board Meeting attendance; (4) OBMP activities; and (5) OBMP Implementation Program Elements 1 through 9 activities.

When the FY 2021/22 budget was developed, basic assumptions were used in allocating how staff's time would be spent and on which of the projects or activities. The staffing dollars were then allocated into those specific areas and budgeted on a 1/12 monthly budget. When actual staffing activities vary from the budgeted assumptions, a positive or negative variance can be created.

Currently the following actual allocations are tracking above the projected allocations due to Watermaster staff spending more time in these activities as follows: WM Staff Salaries for Administration (account 6011) above budget by \$15,676 or 5.6%; Watermaster Staff Overtime (account 6011.1) above budget by \$1,921 or 64.0%; WM Staff Salaries for Advisory Committee (account 6201) above budget by \$19 or 0.2%; Groundwater Quality-WM Staff Salaries (account 7103.1) above budget by \$3,833 or 22.5%; Comprehensive Recharge-WM Staff Salaries (account 7201) above budget by \$1,811 or 13.0%; and PE 6&7 (account 7501) above budget by \$2,510 or 152.7%.

On October 8, 2021, Vanessa Aldaz (Administrative Assistant) who has been with Watermaster since February 10, 2020, submitted her official notice of resignation effective Friday, October 22, 2021. On Monday, October 25, 2021, Ruby Favela started her employment with Watermaster as the new Administrative Assistant.

The table summarizes the Year-To-Date (YTD) Actual Watermaster salary costs compared to the Year-To-Date (YTD) Budget as of September 30, 2021. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '21 - Sep '21 Actual	Jul '21 - Sep '21 Budget	\$ Over Budget	% of Budget	FY 2021/22 Annual Budget
WM Salary Expense					
6011 · WM Staff Salaries	297,786.80	282,111.00	15,675.80	105.56%	1,128,445.00
6011.1 · WM Staff Salaries - Overtime	4,921.17	3,000.00	1,921.17	164.04%	12,000.00
6011.4 · 457(f) NQDC Plan	8,225.65	8,828.00	-602.35	93.18%	35,312.00
6017- Temporary Services	13,785.68	30,000.00	-16,214.32	45.95%	42,000.00
6201 · Advisory Committee - WM Staff Salaries	7,679.21	7,660.00	19.21	100.25%	30,636.00
6301 · Watermaster Board - WM Staff Salaries	7,748.47	12,189.00	-4,440.53	63.57%	48,754.00
8301 · Appropriative Pool - WM Staff Salaries	10,252.77	11,291.00	-1,038.23	90.81%	45,164.00
8401 · Agricultural Pool - WM Staff Salaries	6,222.98	9,616.00	-3,393.02	64.72%	38,461.00
8501 · Non-Agricultural Pool - WM Staff Salaries	3,996.10	6,649.00	-2,652.90	60.1%	26,596.00
6901 · OBMP - WM Staff Salaries	55,040.31	55,544.00	-503.69	99.09%	222,176.00
7101.1 · Production Monitor - WM Staff Salaries	23,354.72	25,490.00	-2,135.28	91.62%	101,960.00
7102.1 · In-line Meter - WM Staff Salaries	0.00	3,042.00	-3,042.00	0.0%	12,167.00
7103.1 · Grdwater Quality - WM Staff Salaries	20,890.10	17,057.00	3,833.10	122.47%	68,225.00
7104.1 · Grdwater Level - WM Staff Salaries	16,208.11	17,803.00	-1,594.89	91.04%	71,210.00
7107.1 · GrdLevel Monitoring - WM Staff Salarie	0.00	1,833.00	-1,833.00	0.0%	7,332.00
7108.1 · Hydraulic Control - WM Staff Salaries	810.86	1,168.00	-357.14	69.42%	4,671.00
7108.11 · Prado Basin - WM Staff Salaries	719.88	1,739.00	-1,019.12	41.4%	6,954.00
7201 · Comp Recharge - WM Staff Salaries	15,822.29	14,011.00	1,811.29	112.93%	56,041.00
7301 · PE3&5 - WM Staff Salaries	2,569.82	4,628.00	-2,058.18	55.53%	18,509.00
7401 · PE4 - WM Staff Salaries	0.00	2,825.00	-2,825.00	0.0%	11,306.00
7501 · PE6&7 - WM Staff Salaries	4,152.62	1,643.00	2,509.62	252.75%	6,575.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	1,624.00	-1,624.00	0.0%	6,493.00
7601 · PE8&9 - WM Staff Salaries	4,941.16	6,177.00	-1,235.84	79.99%	24,705.00
Subtotal WM Staff Costs	505,128.70	525,928.00	-20,799.30	96.05%	2,025,692.00
60185 · Vacation	42,918.05	33,482.00	9,436.05	128.18%	93,925.00
60186 ⋅ Sick Leave	25,756.01	15,600.00	10,156.01	165.1%	62,400.00
60187 · Holidays	7,469.81	10,400.00	-2,930.19	71.83%	78,002.00
Subtotal WM Paid Leaves	76,143.87	59,482.00	16,661.87	128.01%	234,327.00
Total WM Salary Costs	581,272.57	585,410.00	-4,137.43	99.29%	2,260,019.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

For FY 2021/22 the amount of \$21,000 was "Carried-Over" from the previous fiscal year's budget under the category of Temporary Services (6017). This expense is currently being used to fund one temporary employee who is scanning documents into the SharePoint system for the ongoing records management project.

LEGAL SERVICES BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

CURRENT MONTH - SEPTEMBER 2021

As of September 30, 2021, the total (YTD) Watermaster Legal Services expenses (consolidating the three categories of Watermaster Administrative Legal Services, Pool/Advisory/Board Meeting legal expenses, and OBMP legal expenses) were \$122,021 or 49.6% below the (YTD) budgeted amount of \$245,920.

The Watermaster Legal Services budget was developed jointly by the Watermaster staff and Brownstein Hyatt Farber Schreck staff with specific assumptions regarding the tasks and legal activities that would occur during FY 2021/22. The total legal services budget was developed by multiplying the number of hours that would be required to complete the specific tasks by the hourly rate. The "Approved" budget was adopted for the original amount of \$972,845.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070s) as of September 30, 2021 was \$10,045 or 12.1% above the budgeted amount of \$83,265. The specific items within the Administrative Legal Services expenses (6070s) which were over budget were the Rules & Regulations expenses (6072) over budget by \$6,008 or 201.7%; Miscellaneous (6078) which were over budget by \$14,116 or 26.6%; and the Ely Basin Investigation (6078.25) which were over budget by \$4,897 or 100%. Please see Note 1 on the following page for a more detailed explanation of the miscellaneous types of expenses (6078).

The specific items within the Administrative Legal Services expenses (6070s) which were under budget were the expenses for Court Coordination (6071) under budget by \$3,304 or 32.2%; Personnel Matters (6073) which were under budget by \$1,248 or 31.2%; Interagency Issues (6074) under budget by \$9,900 or 100.0%; and Party Status Maintenance expenses (6077) under budget by \$524 or 16.8%.

WATERMASTER POOLS, ADVISORY AND BOARD LEGAL SERVICES:

The Pools, Advisory Committee and the Board meeting legal expenses from BHFS are captured by month within the accounts (6275, 6375, 6375.1, 8375, 8475 and 8575). The legal service costs associated with the Board Workshop(s) are also included as part of this group. Overall, this category of legal expenses as of September 30, 2021 was \$33,614 or 64.1% below the budgeted amount of \$52,410. Normal Brownstein Hyatt Farber Schreck meeting attendance during any given month includes attendance at all three pool meetings, one Advisory Committee meeting and one Board meeting.

There were no meetings held during the month of August 2021. The legal services budget was developed with the assumption of having eleven months of meetings, intentionally excluding the month of December 2021.

OBMP LEGAL SERVICES:

The OBMP legal expenses (accounts 6907.31 through 6907.90) were below the budget for the month. As of September 30, 2021, the category of OBMP legal expenses were \$98,451 or 89.3% below the budgeted amount of \$110,245. Within this category, there were no expenses over budget.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of September 30, 2021 compared to the Year-To-Date (YTD) budget. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '21 - Sep '21 Actual	Jul '21 - Sep '21 Budget	\$ Over Budget	% of Budget	FY 2021/22 Annual Budget
6070 · Watermaster Legal Services	Hotaur	Daagot	↓ O TO: Budget	70 O. Baager	Alliaai Baagot
6071 · BHFS Legal - Court Coordination	6,957.00	10,261.00	-3,304.00	67.8%	41,050.00
6072 · BHFS Legal - Rules & Regulations	8,986.50	2,979.00	6,007.50	301.66%	11,925.00
6073 · BHFS Legal - Personnel Matters	2.752.20	4,000.00	-1,247.80	68.81%	9,900.00
6074 · BHFS Legal - Interagency Issues	0.00	9,900.00	-9,900.00	0.0%	39,600.00
6076 · BHFS Legal - Storage Issues	0.00	0.00	0.00	0.0%	0.00
6077 · BHFS Legal - Party Status Maintenance	2,601.00	3,125.00	-524.00	83.23%	12,500.00
6078 · BHFS Legal - Miscellaneous (Note 1)	67,115.70	53,000.00	14,115.70	126.63%	212,000.00
6078.25 · BHFS - Ely # Basin Investigation	4,897.20	0.00	4,897.20	100.0%	0.00
Total 6070 · Watermaster Legal Services	93,309.60	83,265.00	10,044.60	112.06%	326,975.00
6275 · BHFS Legal - Advisory Committee	2,227.50	6,600.00	-4,372.50	33.75%	24,200.00
6375 ⋅ BHFS Legal - Board Meeting	11,110.05	21,060.00	-9,949.95	52.75%	77,220.00
6375.1 · BHFS Legal - Board Workshop(s)	0.00	0.00	0.00	0.0%	12,725.00
8375 · BHFS Legal - Appropriative Pool	1,786.50	8,250.00	-6,463.50	21.66%	30,250.00
8475 · BHFS Legal - Agricultural Pool	1,836.00	8,250.00	-6,414.00	22.26%	30,250.00
8575 ⋅ BHFS Legal - Non-Ag Pool	1,836.00	8,250.00	-6,414.00	22.26%	30,250.00
Total BHFS Legal Services	18,796.05	52,410.00	-33,613.95	35.86%	204,895.00
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	2,745.00	-2,745.00	0.0%	10,975.00
6907.32 · Chino Airport Plume	0.00	2,745.00	-2,745.00	0.0%	10,975.00
6907.33 · Desalter/Hydraulic Control	0.00	8,426.00	-8,426.00	0.0%	33,700.00
6907.34 · Santa Ana River Water Rights	247.50	4,687.00	-4,439.50	5.28%	18,750.00
6907.36 · Santa Ana River Habitat	2,227.50	6,838.00	-4,610.50	32.58%	27,350.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	12,212.00	-12,212.00	0.0%	48,850.00
6907.39 ⋅ Recharge Master Plan	580.50	3,125.00	-2,544.50	18.58%	12,500.00
6907.40 · Storage Agreements	0.00	12,887.00	-12,887.00	0.0%	51,550.00
6907.41 · Prado Basin Habitat Sustainability	0.00	3,125.00	-3,125.00	0.0%	12,500.00
6907.42 · Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6907.44 · SGMA Compliance	0.00	2,250.00	-2,250.00	0.0%	9,000.00
6907.45 · OBMP Update	0.00	20,475.00	-20,475.00	0.0%	81,900.00
6907.46 · Upper SAR Integrated Model	0.00	0.00	0.00	0.0%	0.00
6907.47 · 2020 Safe Yield Reset	8,738.10	10,050.00	-1,311.90	86.95%	40,200.00
6907.48 · Ely Basin Investigation	0.00	12,212.00	-12,212.00	0.0%	48,850.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	8,468.00	-8,468.00	0.0%	33,875.00
Total 6907 · WM Legal Counsel	11,793.60	110,245.00	-98,451.40	10.7%	440,975.00
Total Brownstein, Hyatt, Farber, Schreck Costs	123,899.25	245,920.00	-122,020.75	50.38%	972,845.00

Note 1: The types of legal activities that have been charged against the "Miscellaneous" legal category account 6078 are as follows: (1) Correspondence and discussions with Watermaster staff regarding current issues/topics; (2) Correspondence with Watermaster staff regarding special projects (assessment package, replenishment obligations, annual report, audit report, business plan, etc.); (3) Brownstein's status review of ongoing Watermaster projects and issues; (4) Brownstein's update of the outstanding issues list; (5) Coordination of ongoing Watermaster projects; (6) Review of draft documents and contracts; (7) Review transfer documents; (8) Ground-Level Monitoring Committee reports/meetings; (9) Review process and criteria for SGMA reporting; (10) MVWD SCADA Agreement and installation; (11) Angelica Corporation Bankruptcy matter; (12) NRG/GENON Bankruptcy matter; (13) Pomona extensometer project, CEQA review and compliance; (14) Desalter Replenishment obligations, assessment methodologies, and ongoing issues; (15) Master Cost Sharing Agreement with IEUA; (16) Estimation and adoption of an evaporative loss policy for Recharge; (17) CalMat intervention; (18) Angelica's water rights transfer; (19) Exhibit "G" rate issues; (20) Right of Entry Agreements for various locations; (21) Assessment Packages-Updates and Review; (22) Ag Pool Contest; (23) Payment of Ag Legal Fees; (24) Ag Invoices; and (25) Miscellaneous legal research on current and pending issues.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

OBMP ENGINEERING SERVICES AND LEGAL COSTS

CURRENT MONTH - SEPTEMBER 2021

Reviewing in total the OBMP Engineering Services and Legal Costs (consolidating the five categories of OBMP Watermaster Staff and SAWPA, OBMP Engineering Services, OBMP Legal Costs, OBMP Update Costs, and OBMP Other Expenses) for the three months ending September 30, 2021, the actual expenses of \$207,752 were below the budgeted amount of \$370,133 by \$162,381 or 43.9%. For a detailed discussion, the following is provided.

For September 30, 2021, the accounts 6901-6903 (Optimum Basin Mgmt. Program) section was above the Year-To-Date (YTD) budget by \$4,622 or 6.5%. Watermaster utilizes an in-house database time and attendance system to record and document staff's actual hours worked and also allocates those hours to a specific project or activity. Watermaster staff time could be charged to Administrative, OBMP, or Implementation Project categories. Recently, Watermaster staff spent less time on specific OBMP related areas as budgeted. As a result, Watermaster staff allocated less actual time to the OBMP project as budgeted, which resulted in an under-budget variance of \$504 or 0.9%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2020/21 Basin Monitoring Program Task Force Contribution which was budgeted at \$15,032 and actual expenses were \$20,158 or \$5,126 or 34.1% above budget as of September 30, 2021.

For September 30, 2021, the accounts 6906 (Optimum Basin Mgmt. Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$49,308 or 29.0%. The majority of expenses within this OBMP category were under budget (YTD), however, the accounts over budget were the OBMP-Watermaster Model Update (6906.1) which were over budget by \$976 or 9.3%; Water Rights Compliance Reporting expenses (6906.22) which were over budget by \$13,477 or 299.8%; OBMP-Other General Meetings expenses (6906.32) which were over budget by \$590 or 3.1%; Prepare Annual Report expenses (6906.81) which were over budget by \$1,086 or 29.7%; and the OBMP-Engineering Services-Other expenses (6906) which were over budget by \$1,685 or 16.1%. Within the 6906 categories, two accounts had funding "Carried-Over" from the previous fiscal year. The OBMP-Watermaster Model Update expenses (6906.1) had \$9,000 brought forward from the previous year and the Integrated Model Meetings-IEUA Costs expenses (6906.15) had \$14,594 brought forward from the previous year. These two amounts are included in the FY 2021/22 budget.

Within the category 6907 (Optimum Basin Mgmt. Program Legal Fees) are the remaining Brownstein Hyatt Farber Schreck (BHFS) Watermaster's legal expenses. Within the legal expense category, there were no line item activities above the budget. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$2,745; the Chino Airport Plume of \$2,745; the Desalter/Hydraulic Control of \$8,426; Santa Ana River Water Rights of \$4,439; the Santa Ana River Habitat of \$4,611; the Regional Water Quality Control Board of \$12,212; the Recharge Master Plan expenses of \$2,545; Storage Agreements of \$12,887; the Prado Basin Habitat Sustainability of \$3,125; SGMA Compliance of \$2,250; the OBMP Update of \$20,475; the 2020 Safe Yield Reset of \$1,312: the Ely Basin Investigation expenses of \$12,212; and the WM Unanticipated legal expenses of \$8,468. For the three months ended September 30, 2021, the overall cumulative (YTD) budget was \$110,245 and the actual (BHFS) legal expenses totaled \$11,794 which resulted in an under-budget variance of \$98,451 or 89.3%.

The OBMP Update Costs (6908.1) were below the budget for the month. These expenses relate to the OBMP Update costs for the contract between Tom Dodson and Associates and CBWM to procure environmental review services for the 2020 OBMP Update. The contract had a remaining amount available of \$17,065 as of the year-ended June 30, 2021 and that amount was "Carried-Over" into the FY 2021/22 budget. The budget has a remaining balance as of September 30, 2021 of \$17,065.

The OBMP Other Expenses (6909's) were below the budget for the month. These expenses are typically conference calls, meeting expenses, supplies, annual inspection fees, and other miscellaneous type expenses. As of September 30, 2021, this category of expenses was \$2,179 or 94.5% below the budgeted amount of \$2,306.

Overall, the Optimum Basin Management Program (OBMP) category was \$207,752 actual (YTD) compared to a budget (YTD) of \$370,133 for an under budget of \$162,381 or 43.9% as of September 30, 2021.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of September 30, 2021 compared to the Year-To-Date (YTD) budget. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '21 - Sep '21	Jul '21 - Sep '21			FY 2021/22
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6900 · Optimum Basin Mgmt Plan	Actual	Duaget	y Over Budget	78 Of Budget	Annual Budget
6901 · WM Staff Salaries	55,040.31	55,544.00	-503.69	99.09%	222,176.00
6903 · OBMP SAWPA Group	20,158.00	15,032.00	5,126.00	134.1%	15,032.00
Total 6901-6903 · OBMP WM Staff/SAWPA	75,198.31	70,576.00	4,622.31	106.55%	237,208.00
6906 · OBMP Engineering Services	70,100.01	. 0,0. 0.00	.,022.01	10010070	20.,200.00
6906.1 · OBMP - Watermaster Model Update	11,506.75	10,531.00	975.75	109.27%	15,112.00
6906.15 · Integrated Model Mtgs IEUA Costs	9,057.49	22,411.00	-13,353.51	40.42%	45,874.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	17,973.25	4,496.00	13,477.25	399.76%	17,984.00
6906.23 · SGMA Reporting Requirements	0.00	3,899.00	-3,899.00	0.0%	15,598.00
6906.24 · Compliance - SB88 and SWRCB	0.00	3,051.00	-3,051.00	0.0%	12,204.00
6906.26 · 2020 OBMP Update	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	12,184.00	27,000.00	-14,816.00	45.13%	108,000.00
			589.50	103.06%	
6906.32 · OBMP - Other General Meetings	19,871.50	19,282.00			77,134.00
6906.71 · OBMP - Data Requests - CBWM Staff	26,568.34	33,267.00	-6,698.66	79.86%	133,068.00
6906.72 · OBMP - Data Requests - Non CBWM	6,412.50	12,522.00	-6,109.50	51.21%	50,088.00
6906.73 · OBMP - Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	156.00	19,349.00	-19,193.00	0.81%	77,398.00
6906.81 · Prepare Annual Reports	4,741.50	3,656.00	1,085.50	129.69%	14,626.00
6906 · OBMP Engineering Services - Other	12,161.50	10,477.00	1,684.50	116.08%	41,896.00
Total 6906 · OBMP Engineering Services	120,632.83	169,941.00	-49,308.17	70.99%	608,982.00
6907 ⋅ OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	2,745.00	-2,745.00	0.0%	10,975.00
6907.32 ⋅ Chino Airport Plume	0.00	2,745.00	-2,745.00	0.0%	10,975.00
6907.33 · Desalter/Hydraulic Control	0.00	8,426.00	-8,426.00	0.0%	33,700.00
6907.34 · Santa Ana River Water Rights	247.50	4,687.00	-4,439.50	5.28%	18,750.00
6907.36 · Santa Ana River Habitat	2,227.50	6,838.00	-4,610.50	32.58%	27,350.00
6907.38 ⋅ Reg. Water Quality Cntrl Board	0.00	12,212.00	-12,212.00	0.0%	48,850.00
6907.39 · Recharge Master Plan	580.50	3,125.00	-2,544.50	18.58%	12,500.00
6907.40 · Storage Agreements	0.00	12,887.00	-12,887.00	0.0%	51,550.00
6907.41 · Prado Basin Habitat Sustainability	0.00	3,125.00	-3,125.00	0.0%	12,500.00
6907.44 · SGMA Compliance	0.00	2,250.00	-2,250.00	0.0%	9,000.00
6907.45 · OBMP Update	0.00	20,475.00	-20,475.00	0.0%	81,900.00
6907.46 · Upper SAR Integrated Model	0.00	0.00	0.00	0.0%	0.00
6907.47 · 2020 Safe Yield Reset	8,738.10	10,050.00	-1,311.90	86.95%	40,200.00
6907.48 ⋅ Ely Basin Investigation	0.00	12,212.00	-12,212.00	0.0%	48,850.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	8,468.00	-8,468.00	0.0%	33,875.00
Total 6907 · WM Legal Counsel	11,793.60	110,245.00	-98,451.40	10.7%	440,975.00
Total 6907 · OBMP Legal Fees	11,793.60	110,245.00	-98,451.40	10.7%	440,975.00
6908 ⋅ OBMP Updates					
6908.1 · 2020 OBMP Update-Dodson & Assoc.	0.00	17,064.56	-17,064.56	0.0%	17,064.56
Total 6908 · OBMP Updates	0.00	17,064.56	-17,064.56	0.0%	17,064.56
6909 OBMP Other Expenses					
6909.1 · OBMP Meetings	126.81	375.00	-248.19	33.82%	1,500.00
6909.3 · Other OBMP Expenses	0.00	681.00	-681.00	0.0%	2,724.00
6909.6 · OBMP Expenses - Miscellaneous	0.00	1,250.00	-1,250.00	0.0%	5,000.00
6909 · OBMP Other Expenses - Other	0.00	0.00	0.00	0.0%	0.00
Total 6909 · OBMP Other Expenses	126.81	2,306.00	-2,179.19	5.5%	9,224.00
Total 6900 · Optimum Basin Mgmt Plan	207,751.55	370,132.56	-162,381.01	56.13%	1,313,453.56

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

ENGINEERING SERVICES - OBMP IMPLEMENTATION PROJECTS COSTS WEST YOST ASSOCIATES (formerly Wildermuth Environmental, Inc.)

CURRENT MONTH - SEPTEMBER 2021

As of September 30, 2021, the total (YTD) Engineering Services expenses were \$636,597 or 53.0% below the (YTD) budget amount of \$1,201,695. The OBMP Implementation Projects (consolidated accounts 7100s – 7700s) were all under budget of as of September 30, 2021 except for the Groundwater Level-Engineering expenses (7107.2) which were over budget by \$230 or 1.4%; the Hydraulic Control-Lab Services expenses (7108.4) which were over budget by \$440 or 100%; the PE4-Engineering expenses (7402) which were over budget by \$9,221 or 26.4%; and PE 6&7-Engineering Services expenses (7502) which were over budget by \$13,281 or 47.5%.

West Yost Associates provides Watermaster a Progress and Estimated Cost at Completion (ECAC) report each quarter. The purpose of this (ECAC) report is to update Watermaster on whether or not the Engineering Services budget will be above or below budget at the end of the fiscal year. If the Engineering Services budget is expected to be above budget at fiscal year-end, a Budget Amendment or Budget Transfer Form would need to be approved to ensure funding.

The first ECAC report for the current fiscal year has been provided for the period ending September 30, 2021 and shows a projected under budget at fiscal year-end June 30, 2022 of \$80,942.

The Fiscal Year 2020/21 Progress and Estimated Cost at Completion for the Period July 1, 2021 through September 30, 2021 report from West Yost Associates is provided. Please access this link:

https://cbwm.syncedtool.com/shares/file/us8be8WNibj/?modal=1

Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

The table listed below summarized the Year-To-Date (YTD) Actual West Yost Associates and other Engineering costs compared to the Year-To-Date (YTD) Budget as of September 30, 2021. Please be advised that the "\$ Over Budge" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	lul '21 - Sen '21	Jul '21 - Sep '21			FY 2021/22
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6906 · OBMP Engineering Services - Other	12,161.50	10,477.00	1,684.50	116.08%	41,896.00
6906.1 · OBMP - Watermaster Model Update	11,506.75	10,531.00	975.75	109.27%	15,112.00
6906.15 · Integrated Model Mtgs-IEUA Cost	9,057.49	22,411.00	-13,353.51	40.42%	45,874.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	17,973.25	4,496.00	13,477.25	399.76%	17,984.00
6906.23 · SGMA Reporting Requirements	0.00	3,899.00	-3,899.00	0.0%	15,598.00
6906.24 · Compliance - SB88 and SWRCB	0.00	3,051.00	-3,051.00	0.0%	12,204.00
6906.26 · 2019 OBMP Update	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	12,184.00	27,000.00	-14,816.00	45.13%	108,000.00
6906.32 · OBMP - Other General Meetings	19,871.50	19,282.00	589.50	103.06%	77,135.00
6906.71 · OBMP - Data Requests - CBWM Staff	26,568.34	33,267.00	-6,698.66	79.86%	133,068.00
6906.72 · OBMP - Data Requests - Non CBWM	6,412.50	12,522.00	-6,109.50	51.21%	50,088.00
6906.73 · OBMP - Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6906.74 · OBMP - Mat'l Physical Injury Requests	156.00	19,349.00	-19,193.00	0.81%	77,398.00
6906.81 · Prepare Annual Reports	4,741.50	3,656.00	1,085.50	129.69%	14,626.00
7103.3 · Grdwtr Qual-Engineering	76,085.18	78,523.00	-2,437.82	96.9%	206,089.00
7103.5 · Grdwtr Qual-Lab Svcs	33,807.00	36,816.00	-3,009.00	91.83%	63,261.00
7104.3 · Grdwtr Level-Engineering	31,639.06	50,699.00	-19,059.94	62.41%	202,793.00
7104.8 · Grdwtr Level-Contracted Services	0.00	2,500.00	-2,500.00	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	0.00	2,000.00	-2,000.00	0.0%	8,000.00
7107.2 · Grd Level-Engineering	16,615.10	16,385.00	230.10	101.4%	65,542.00
7107.3 · Grd Level-SAR Imagery	79,817.50	106,250.00	-26,432.50	75.12%	170,000.00
7107.6 · Grd Level-Contract Svcs	0.00	21,563.00	-21,563.00	0.0%	86,254.00
7107.8 · Grd Level-Capital Equipment	0.00	6,851.00	-6,851.00	0.0%	16,086.00
7108.3 · Hydraulic Control-Engineering	0.00	0.00	0.00	0.0%	0.00
7108.31 · Hydraulic Control-PBHSP	202.12	16,814.00	-16,611.88	1.2%	67,254.00
7108.4 · Hydraulic Control-Lab Svcs	440.00	0.00	440.00	100.0%	0.00
7108.41 · Hydraulic Control-PBHSP	0.00	0.00	0.00	0.0%	0.00
7108.6 · Hydraulic Control-Outside Professionals	4,500.00	4,500.00	0.00	100.0%	4,500.00
7109.3 · Recharge & Well - Engineering	1,706.25	8,302.00	-6,595.75	0.0%	33,208.00
7110.3 · Ag Production & Estimation - Eng. Serv.	5,080.50	46,239.00	-41,158.50	0.0%	56,910.00
7111.3 · Data Collection & Mgmt Eng. Services	1,157.25	5,039.00	-3,881.75	0.0%	20,158.00
7202.2 · Comp Recharge-Engineering Services	22,760.85	133,691.00	-110,930.15	17.03%	174,764.00
7206.1 · SB88 Specs-Compliance-50% IEUA	681.62	68,402.00	-67,720.38	1.0%	54,694.00
7210 · OBMP - 2023 RMPU	461.50	37,732.00	-37,270.50	1.22%	37,732.00
7303 · PE3&5-Engineering - Other	712.00	5,571.00	-4,859.00	12.78%	22,284.00
7402 · PE4-Engineering	44,172.50	34,952.00	9,220.50	126.38%	139,806.00
7402.10 · PE4-MZ1 Pomona Project	43,126.50	125,853.00	-82,726.50	34.27%	236,127.00
7502 · PE6&7-Engineering	41,260.00	27,979.00	13,281.00	147.47%	111,916.00
7510 · PE6&7-IEUA Salinity Mgmt. Plan	16,646.37	73,975.00	-57,328.63	22.5%	73,975.00
7511 · PE6&7-SAWBMP Task Force-50% IEUA	0.00	6,602.00	-6,602.00	0.0%	26,405.00
7602 · PE8&9-Engineering	0.00	0.00	0.00	0.0%	0.00
7610 · PE8&9-Support 2020 Mgmt. Plan	0.00	43,220.00	-43,220.00	0.0%	43,220.00
7614 · OBMP-Support Imp. Safe Yield Court Order	23,593.50	71,296.00	-47,702.50	33.09%	285,188.00
otal Engineering Services Costs	565,097.63	1,201,695.00	-636,597.37	47.03%	2,825,149.00 *

^{*} West Yost and Subcontractor Engineering Budget of \$2,251,384 plus Carryover Funds from FY 2020/21 of \$573,765.00 Carryover Funds from FY 2020/21 of \$573,765.00 = \$9,000 (6906.1); \$14,594 (6906.15); \$85,000 (7107.3); \$3,772 (7107.8); \$42,682 (7110.3); \$120,000 (7202.2); \$54,694 (7206.1); \$37,732 (7210); \$89,096 (7402.10); \$73,975 (7510); and \$43,220 (7610)

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

The "Original" Approved budget for FY 2021/22 for Engineering Services was \$1,819,165. Budget Amendment A-21-07-01 in the amount of \$147,031 and Budget Amendment A-21-07-02 in the amount of \$276,761 were adopted by the Watermaster Board on July 22, 2021. Budget Amendment A-21-08-01 in

the amount of \$8,427 was approved by the Advisory Committee on August 19, 2021. The accounts increased with the Budget Amendments were the OBMP-Northwest MZ-1 Area Project (7402.1) increased by \$147,031 and the Safe Yield Reset Methodology Evaluation (7614) increased by \$285,188. The "Amended" Engineering Services Budget after inclusion of the Budget Amendments was \$2,251,384. The Engineering Services budget was Amended with the addition of "Carry-Over" funding totaling \$573,765 which brought the Amended Budget amount to \$2,825,149.

The explanations regarding the Carry-Over amount of \$573,765 from FY 2020/21 to the FY 2021/22 budget is provided as follows:

- 1. <u>Watermaster Model Update and Required Demonstrations (Account 6906.1): \$9,000.</u> The requested Carry-Over is necessary to finalize the report on Model Update and Required Demonstrations, which was scheduled for completion in FY 2020/21.
- 2. <u>IEUA Integrated Model Meetings and Technical Review (Account 6906.15): \$29,188 (Watermaster's portion is \$14,594).</u> The requested Carry-Over is necessary because this effort was planned for completion in FY 2020/21but is now scheduled to be completed by December 2021.
- 3. <u>Ground Level SAR Imagery (Account 7107.3): \$85,000.</u> The requested Carry-Over is necessary for the purchase and processing of satellite data by a subconsultant to estimate vertical ground motion. The work was completed in FY 2020/21, but the invoice has not yet been received from the subcontractor.
- 4. <u>Ground Level Capital Equipment (Account 7107.8): \$3,772.</u> The requested Carry-Over is necessary for the of purchase materials and equipment for the Pomona Extensometer Facility. The work was started in FY 2020/21 but wasn't completed until August 2021.
- 5. <u>Agriculture Production and Estimation (Account 7110.3): \$42,682.</u> The requested Carry-Over is necessary to complete the Agriculture Production and Estimation work that was originally scheduled to be performed in FY 2019/20 and FY 2020/21 but was delayed to FY2021/22.
- 6. PE2: Engineering Services for Other Recharge Improvement Projects (Account 7202.2): \$120,000. The requested Carry-Over is necessary to finalize this work in FY 2021/22. The work includes conducting a life-cycle analysis at the San Sevaine 1 and Etiwanda Debris conservation berms, and finalizing a technical memorandum describing the analysis and conclusions. The scope and schedule for this work was fine-tuned with input from IEUA and Watermaster Staff in FY 2020/21. The work is to be completed in FY 2021/22.
- 7. 2023 RMPU Recharge Master Plan Scoping (Account 7210): \$37,732. The requested Carry-Over is necessary to complete the scope, budget and report outline the 2023 RMPU. In June, the Parties determined that they were not interested in pursuing capital improvement projects was part of the 2023 RMPU. A scope, budget and report outline the 2023 RMPU still needs to be developed based on the input from the Parties.
- 8. <u>Management Zone Strategies Northwest MZ-1 (Account 7402.10): \$89,096.</u> The requested Carry-Over is necessary because this is a multi-year project to develop a subsidence management plan for the Northwest MZ-1, and not all tasks planned/budgeted in FY 2020/21 were completed in FY 2020/21.
- 9. <u>IEUA Update Recycled Water Permit Salinity (Account 7510): \$189,341 (Watermaster's portion is \$73,975)</u>. The requested Carry-Over is necessary to complete the technical and regulatory compliance supportwork to update the Chino Basin Maximum Benefit Salt and Nutrient Management Plan. Thismultiyear project began FY 2017/18 and is scheduled to be completed by June 2022.
- 10. <u>PE 8/9: Support Implementation of the 2020 Storage Management Plan (Account 7610): \$43,220.</u> The requested Carry-Over is for as-requested technical support to Watermaster staff, updating the

information required for a complete Storage and Recovery Program application, updating the Storage and Recovery Program application forms, and updating the process to evaluate an application. No implementation activities occurred in FY 2020/21. The entire budget is requested to be brought forward into FY 2021/22.

11. SB88 Specification to Ensure Compliance with Regulations (Account 7206.1) - GRCC and 50% IEUA Cost Share: \$54,694. The requested Carry-Over is necessary to (1) complete the technical memorandum evaluating the existing methodology to estimate stormwater diversions in the Chino Basin, and (2) provide as needed support to IEUA and Watermaster in implementing the recommendations describes in the technical memorandum. The administrative draft technical memorandum was completed in June 2021 and comments were received on August 11, 2021.

PRADO BASIN HABITAT SUSTAINABILITY PROGRAM

Ongoing Costs

Program costs that are ongoing (Ongoing Costs) will be cost-shared between Watermaster and IEUA, split on a 50/50 basis, subject to the following limitation: in each fiscal year, neither Watermaster nor IEUA shall be obligated to reimburse the other for Ongoing Costs that exceed the amount that the reimbursing party has budgeted for Ongoing Costs in that fiscal year, except as agreed upon by both parties in writing or as amended during the fiscal year. The first year expenses (FY 2016/17) to be cost shared were approximately \$300,000, with projected future years (FY 2017/18 and forward) estimated at approximately \$150,000. For the purposes of the agreement, Ongoing Costs are defined as the costs associated with the following Program activities:

- 1. A Riparian Habitat Monitoring Program, including, but not limited to, the following sub-tasks:
 - a. Design and implement a site–specific vegetation monitoring program with the United States Bureau of Reclamation (USBR) and Orange County Water District, pursuant to which USBR will perform site-specific vegetation surveys.
 - b. Manage and perform custom flight to collect a high resolution air photo of the Prado Basin Region.
 - c. Collect, check, and upload historical air photos and vegetation survey data in the Prado Basin region.
 - d. Collect, check, and upload historical Landsat data in the Prado Basin region.
- 2. A Climate Monitoring Program, including, but not limited to, the following sub-task:
 - a. Collect, check, and upload climatic data on an annual basis
- 3. Preparation of the AMP Annual Report (Annual Report), including, but not limited to, the following subtasks:
 - a. Water level monitoring, vegetation survey, photo monitoring, landsat data, climate data and analysis of the components.
 - b. Analyze data and prepare an administrative draft of the Annual Report for Watermaster/IEUA.
 - c. Incorporate the Watermaster and IEUA comments and prepare a draft Annual Report for review by the PBHSC.
 - d. Meet with PBHSC to review draft Annual Report.
 - e. Incorporate PBHSC comments and finalize the Annual Report.
- 4. Annual license fees for monitoring wells.
- 5. Project management and administration activities associated with the Program undertaken by a Party's consultant, including, but not limited to, the following sub-tasks:
 - a. Ad-Hoc Meetings
 - b. Preparation of scope and budget for the Program
 - c. Project administration and financial reporting

6. Other costs required to fulfill the requirements of Peace II Subsequent EIR mitigation measure 4.4-3. Watermaster shall be responsible for the costs associated with the Groundwater Level Monitoring Program, Groundwater Quality Monitoring Program, and Surface Water Monitoring Program.

Watermaster and IEUA shall each have responsibility for its own administrative costs, excluding the tasks and expenses included under Set-Up Costs and Ongoing Costs. Watermaster and IEUA will meet to review the cost-sharing structure under this agreement and negotiate necessary adjustments in good faith on at least an annual basis.

The Peace II SEIR does not explicitly state a duration for the monitoring and mitigation program. It is logical to assume that the program will last until the drawdown impacts, if any, on the riparian habitat from Peace II activities are fully manifested and not predicated to worsen, and that mitigation measures, if any are required, are fully implemented. This is not a perpetual agreement. Upon termination of the monitoring and any necessary mitigation obligations, the parties may elect to terminate the cost share agreement.

	West Yost Associates		50% Billing " TO" IEUA			0% Billing "FROM" IEUA	Costs For Watermaster		
Jul. 2021 - Sep. 2021	\$	404.25	\$	(202.13)	\$	-	\$	202.13	
Totals	\$	404.25	\$	(202.13)	\$	-	\$	202.13	
		7108.31		7108.31		7108.31			
Maximum Costs	\$	143,508.00	\$	71,754.00	\$	71,754.00	\$	71,754.00	

PREVIOUSLY REPORTED ACTIONS (Descending Order)
None

OTHER INCOME AND EXPENSE

On September 20, 2021, the Agricultural Pool unanimously passed an action to request that Watermaster staff immediately issue the Agricultural Pool Wellhead Production Assessment of Agricultural Pool wells. The Agricultural Pool further requested that the total amount to be assessed is equal to \$200,000 as apportioned among all wells based upon amount of water produced. Watermaster staff started to issue the invoices on September 20, 2021 and completed on September 21, 2021.

There were no other significant items to report within the category of Other Income and Expenses for the month ending September 30, 2021.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

Per section VI.D.3 of the Groundwater Storage Program Funding Agreement No. 49960 in the Chino Basin with The Metropolitan Water District of Southern California, the FY 2021/22 annual administrative fee invoice was issued on July 6, 2021 in the amount of \$177,430.03 under invoice number 2021-07-CUP. Payment in the amount of \$177,430.03 was received and deposited on August 10, 2021.

The FY 2021/22 annual debt service expense (account 7690.1) of \$529,029 was paid directly to IEUA on July 8, 2021.

POOL LEGAL SERVICES FUND ACCOUNTING

Each Pool has a Fund Account created to pay their own legal service invoices. The legal services invoices are funded and paid using the Fund accounts (8467 for the OAP, 8567 for the ONAP, and 8367 for the AP). These Fund Accounts are replenished at the direction of each Pool, and the legal service invoices are approved by the Pool leadership and when paid by Watermaster, are deducted from the existing Fund Account balances. If the Fund Account for any Pool reaches zero, no further payments can be paid from the Fund and a replenishment action must be initiated by the Pool.

Along with the legal services Fund account for the OAP (8467), the OAP also has two other Fund accounts for Ag Pool Meeting Attendance expenses (8470), and Special Projects expenses (8471). These Fund accounts are also shown in the charts listed below.

Normally, the Watermaster Admin Reserve would not be used to fund any of the Pool's legal services invoices. However, for the Agricultural Pool, the amount of \$102,557.12 was used from the Watermaster Admin Reserve to fund the shortfall created when the November 19, 2020 Assessment invoices totaling \$500,000 were not paid in full. In fact, \$115,263.88 was paid, leaving a balance due of \$384,736.12 (\$115,263.88 + \$384,736.12 = \$500,000) which still remains unpaid. Through November 2020, invoices totaling \$217,821.00 had been paid for the Agricultural Pool.

Please note the Assessment invoices issued on November 19, 2020 were due on December 21, 2020. The available cash of \$115,263.88 and payments issued of \$217,821.00 left a Fund balance shortfall of \$102,557.12 which was temporarily funded through Admin Reserves (\$217,821.00 - \$115,263.88 = \$102,557.12). The Admin Reserve amount of \$102,557.12 will need to be refunded back to Watermaster.

Fund Balance for Agricultural Pool	_		Agricultural Pool Reserve Funds	-	
Account 8467 - Legal Services	_		As shown the B-3 Financial Report	_	
Beginning Balance July 1, 2020:	\$	_	Agricultural Pool Reserve Funds Balance as of June 30, 2020:	\$	515,498.06
Additions:			Additions:		
Assessment issued November 19, 2020 for					
\$500,000 with outstanding balance of \$384,736.12	\$ 115	,263.88	AP payments w/o Escrow instructions (\$165,694.75 - \$161,070.09)	\$	4,624.66
Admin Reserve used to cover shortfall *	\$ 102	,557.12	Y-T-D Interest earned on Ag Pool Funds FY 2020/21, FY 2021/22	\$	1,993.48
Subtotal Additions:	\$ 217	,821.00	Payments rec'd on Wellhead Production invoices issued Sep. 2021	\$	-
			Subtotal Additions:	\$	6,618.14
From Agricultural Pool Reserve Funds	\$ 278.	,290.00			-,
Total Additions:		,111.00	Reductions:		
Reductions:	ψ .50,	,111.00	Actual vs. Budget Shortfall from FY 2019/20	Ś	(165,694.75)
Invoices paid July 2020 - November 2020	\$ (217	,821.00)	Mediation invoice paid	\$	(8,450.00)
Invoices paid December 2020 - June 2021		,365.00)	Subtotal Reductions:	_	(174,144.75)
Invoices paid July 2021 - September 2021	. , .	,925.00)	Invoices paid December 2020 - June 2021		(220,365.00)
Subtotal Reductions:		,111.00)	Invoices paid December 2020 - Julie 2021 Invoices paid July 2021 - September 2021	\$	(57,925.00)
Subtotal Neductions.	J (430)	,111.00)	Total Reductions	<u> </u>	(452,434.75)
Ending Fund Balance as of September 30, 2021	\$		Total reductions	7	(432,434.73)
			Agricultural Pool Reserve Funds Balance as of September 30, 2021:	\$	69,681.45
* The Admin Reserve amount of \$102,557.12 will need to	be refund	ed	,	÷	•
back to Watermaster.			Note: Balance of \$69,681.45 as shown on B-3 Financial Report		
Fund Balance For Agricultural Pool	_		Fund Balance For Agricultural Pool	-	
Account 8470 - Meeting Compensation	_		Account 8471 - Special Projects	_	
Beginning Balance July 1, 2021:	\$ 19,	,525.00	Beginning Balance July 1, 2021:	\$	31,516.00
Additions:			Additions:		
Assessment issued and paid	\$	-	Assessment issued and paid	\$	-
Budget Transfers	\$	-	Subtotal Additions:	\$	-
Subtotal Additions:	\$	-	Reductions:		
Reductions:			Invoices paid July 2021 - September 2021	\$	(10,643.00)
Compensation paid July 2021 - September 2021		,375.00)	Budget Transfers	\$	-
Subtotal Reductions:	\$ (6,	,375.00)	Subtotal Reductions:	\$	(10,643.00)
Ending Fund Balance as of September 30, 2021	\$ 13,	,150.00	Ending Fund Balance as of September 30, 2021	\$	20,873.00

Fund Balance For Non-Agricultural Pool		
Account 8567 - Legal Services	_	
Beginning Balance July 1, 2021:	\$	32,320.70
Additions:		
Assessment issued and paid	\$	-
Reductions:		
Invoices paid July 2021 - September 2021	\$	(5,540.40)
Ending Fund Balance as of September 30, 2021	\$	26,780.30

Fund Balance For Appropriative Pool		
Account 8367 - Legal Services	_	
Beginning Balance July 1, 2021:	\$	62,391.25
Additions:		
Assessment issued and paid	\$	-
Subtotal Additions:	\$	-
Reductions:		
Invoices paid July 2021 - September 2021	\$	(47,800.00)
Accrued (not paid)	\$	-
Subtotal Reductions:	\$	(47,800.00)
Ending Fund Balance as of September 30, 2021	\$	14,591.25

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

"CARRY OVER" FUNDING BACKGROUND OF "CARRY OVER" FUNDING

CURRENT MONTH - SEPTEMBER 2021

As of September 30, 2021, the total (YTD) amount remaining of the "Carried Over" funding is \$2,613,654.37 (\$2,943,828.87 - \$330,174.50 = \$2,613,654.37).

The following details are provided:

"Carried Over" Expenses At June 30, 2021

Human Resources Services	\$ 6,000.00	Α	6013	FY 2020/21	ADMIN
Temporary Services	\$ 21,000.00	В	6017	FY 2020/21	ADMIN
	•				
Other Office Equipment - Boardroom Upgrades	\$ 26,794.71	С	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ 41,295.45	С	6038	FY 2020/21	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$ 17,064.56	D	6908.1	FY 2020/21	OBMP
Meter Installation - New Meter Installation	\$ 175,400.00	Е	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$ 181,650.00	F	7102.8	FY 2018/19	OBMP
OBMP - Watermaster Model Update	\$ 9,000.00	G	6906.1	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$ 14,594.00	Н	6906.15	FY 2020/21	ENG
Ground Level Monitoring - SAR Imagery	\$ 85,000.00	1	7107.3	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$ 3,772.00	J	7107.8	FY 2020/21	ENG
Agriculture Production and Estimation	\$ 42,682.00	K	7110.3	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$ 120,000.00	L	7202.2	FY 2020/21	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$ 54,694.00	М	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$ 37,732.00	Ν	7210	FY 2020/21	ENG
PE4 - Northwest MZ-1 Area Project	\$ 89,096.00	0	7402.1	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$ 73,975.00	Р	7510	FY 2020/21	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$ 43,220.00	Q	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$ 15,062.88	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 5,000.00	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ 238,646.90	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$ 1,434,582.42	Т	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$ 62,391.25	U	8367	FY 2020/21	AP
Agricultural Pool - Legal & Technical Services	\$ 61,814.00	V	8467	FY 2020/21	OAP
Agricultural Pool - Mtg. Attendance Compensation	\$ 19,525.00	W	8470	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$ 31,516.00	Χ	8471	FY 2020/21	OAP
Non-Agricultural Pool - Legal Services	\$ 32,320.70	Υ	8567	FY 2020/21	ONAP
Total Balance, July 1, 2021	\$ 2,943,828.87				

"Carried Over" Balance, July 1, 2021	\$ 2,943,828.87				
Less: (Invoices Received To Date FY 2021/22)					
Human Resources Services	\$ -	Α	6013	FY 2020/21	ADMIN
Temporary Services	\$ (13,785.68)	В	6017	FY 2020/21	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ (1,473.08)	С	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ -	С	6038	FY 2020/21	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$ -	D	6908.1	FY 2020/21	ОВМР
Meter Installation - New Meter Installation	\$ -	Ε	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$ -	F	7102.8	FY 2018/19	ОВМР
OBMP - Watermaster Model Update	\$ (9,000.00)	G	6906.1	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$ (9,057.50)	Н	6906.15	FY 2020/21	ENG
Ground Level Monitoring - SAR Imagery	\$ (79,817.50)	I	7107.3	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$ -	J	7107.8	FY 2020/21	ENG
Agriculture Production and Estimation	\$ (5,080.50)	K	7110.3	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$ (22,760.85)	L	7202.2	FY 2020/21	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$ (681.62)	М	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$ (461.50)	Ν	7210	FY 2020/21	ENG
PE4 - Northwest MZ-1 Area Project	\$ (43,126.50)	0	7402.1	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$ (16,646.37)	Р	7510	FY 2020/21	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$ -	Q	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$ -	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ -	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ -	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$ -	Т	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$ (47,800.00)	U	8367	FY 2020/21	AP
Agricultural Pool - Legal & Technical Services	\$ (57,925.00)	V	8467	FY 2020/21	OAP
Agricultural Pool - Mtg. Attendance Compensation	\$ (6,375.00)	W	8470	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$ (10,643.00)	Χ	8471	FY 2020/21	OAP
Non-Agricultural Pool - Legal Services	\$ (5,540.40)	Υ	8567	FY 2020/21	ONAP
Updated Balance as of September 30, 2021	\$ 2,613,654.37				

Updated Balance as of September 30, 2021						
Human Resources Services	\$	6,000.00	Α	6013	FY 2020/21	ADMIN
Temporary Services	\$	7,214.32	В	6017	FY 2020/21	ADMIN
Other Office Equipment - Boardroom Upgrades	\$	25,321.63	С	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$	41,295.45	С	6038	FY 2020/21	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$	17,064.56	D	6908.1	FY 2020/21	OBMP
Meter Installation - New Meter Installation	\$	175,400.00	Е	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$	181,650.00	F	7102.8	FY 2018/19	ОВМР
OBMP - Watermaster Model Update	\$	-	G	6906.1	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$	5,536.50	Н	6906.15	FY 2020/21	ENG
Ground Level Monitoring - SAR Imagery	\$	5,182.50	I	7107.3	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$	3,772.00	J	7107.8	FY 2020/21	ENG
Agriculture Production and Estimation	\$	37,601.50	K	7110.3	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$	97,239.15	L	7202.2	FY 2020/21	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$	54,012.38	М	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$	37,270.50	Ν	7210	FY 2020/21	ENG
PE4 - Northwest MZ-1 Area Project	\$	45,969.50	0	7402.1	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	57,328.63	Р	7510	FY 2020/21	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$	43,220.00	Q	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$	15,062.88	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$	5,000.00	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$	238,646.90	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$	1,434,582.42	Т	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$	14,591.25	U	8367	FY 2020/21	AP
Agricultural Pool - Legal & Technical Services	\$	3,889.00	٧	8467	FY 2020/21	OAP
Agricultural Pool - Mtg. Attendance Compensation	\$	13,150.00	W	8470	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$	20,873.00	Χ	8471	FY 2020/21	OAP
Non-Agricultural Pool - Legal Services	\$	26,780.30	Υ	8567	FY 2020/21	ONAP
Undeted Palance as of Sentember 20, 2021	¢	2 642 654 27			<u></u>	

Updated Balance as of September 30, 2021

\$ 2,613,654.37

ADMINISTRATION SERVICES:

Unspent funds related to ongoing projects and associated activities from the Administration Services budget from FY 2020/21 totaling \$95,090.16 were "Carried Over" into the current FY 2021/22 budget. These funds were from the Human Resources Services [A] in the amount of \$6,000 in account (6013); Temporary Services [B] in the amount of \$21,000 in account (6017); and Other Office Equipment-Boardroom Upgrades [C] in the amount of \$68,090.16 in account (6038). The total funds available are \$95,090.16.

OBMP ACTIVITIES:

The OBMP Update costs relate to the contract between Tom Dodson and Associates and CBWM to procure environmental review services for the 2020 OBMP Update. The original budget was \$225,500 and was approved during FY 2019/20. At the end of June 30, 2021 a remaining balance in the fund of \$17,064.56 was "Carried Over" into the current FY 2021/22 budget. The 2020 OBMP Update - Tom Dodson & Associates [D] in the amount of \$17,064.56 in account (6908.1).

Unspent funds related to ongoing projects and associated activities from the Agricultural area metering installation efforts budget from FY 2018/19 in several accounts totaling \$357,050 were "Carried Over" into the current FY 2021/22 budget. These funds were from the Meter Installation - New Meter Installation [E] in the amount of \$175,400 in account (7102.65); and Meter Installation - Calibration and Testing [F] in the amount of \$181,650 in account (7102.8). The total funds available are \$374,114.56.

ENGINEERING SERVICES:

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2020/21 in several accounts totaling \$573,765 were "Carried Over" into the current FY 2021/22 budget. These funds were from the OBMP - Watermaster Model Update [G] in the amount of \$9,000 in account (6906.1); Integrated Model-Meetings-50% IEUA Costs [H] in the amount of \$14,594 in account (6906.15); Ground Level Monitoring-SAR Imagery [I] in the amount of \$85,000 in account (7107.3); Ground Level Monitoring-Capital Equipment [J] in the amount of \$3,772 in account (7107.8); Agriculture Production and Estimation [K] in the amount of \$42,682 in account (7110.3); PE2 - Comprehensive Recharge-Engineering Services [L] in the amount of \$120,000 in account (7202.2); SB88 Specs-Ensure Compliance-50% IEUA [M] in the amount of \$54,694 in account (7206.1); OBMP-2023 RMPU [N] in the amount of \$37,732 in account (7210); PE4 - Northwest MZ-1 Area Project [O] in the amount of \$89,096 in account (7402.1); PE6&7 - IEUA Salinity Management Plan [P] in the amount of \$73,975 in account (7510); and PE8&9 - Support Implementation 2020 Storage Management Plan [Q] in the amount of \$43,220 in account (7610). The total funds available are \$573,765.

ONGOING RECHARGE IMPROVEMENT PROJECTS:

The Upper Santa Ana River HCP-Task Order #7 [R] has a remaining funded balance of \$20,062.88 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 [S] has a remaining funded budget balance of \$238,646.90 in account (7690.8). The total funds available are \$258,709.78.

FUNDS ON HOLD FOR PROJECTS/REFUND:

The "Funds on Hold for Projects/Refund" [T] has a remaining budget from FY 2017/18 of \$1,434,582.42 in account (7690.9). By unanimous action of the Watermaster Board on June 24, 2021 the amount of \$1,234,582.42 is to be refunded to the Appropriative Pool with the upcoming November 2021 Assessment Package. The amount of \$200,000 will be kept on hold until the warranty period for the San Sevaine Project has expired, and no warranty issues are noted.

POOL RELATED FUNDING:

The remaining funding items are strictly Pool related and are added to the FY 2021/22 budget to ensure proper funding is recorded and tracked. The Appropriative Pool Legal Services [U] in the amount of \$62,391.25 in account (8367); the Agricultural Pool Legal and Technical Services [V] in the amount of \$61,814 in account (8467); the Agricultural Pool Meeting Attendance Compensation [W] in the amount of \$19,525 in account (8470); the Agricultural Pool Special Project Funding [X] in the amount of \$31,516 in account (8471); and the Non-Agricultural Pool Legal Services [Y] in the amount of \$32,320.70 in account (8567). The total funds available are \$207,566.95.

As invoices are received from the vendors and booked against these items listed above, the "Carried Over" balance will be reduced throughout the current fiscal year. At June 30, 2022, any remaining balances of the FY 2020/21 and prior years funding (if any), along with any new FY 2021/22 expenses, will then be "Carried Over" into the FY 2022/23 budget.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

AUDIT FIELD WORK

CURRENT MONTH - SEPTEMBER 2021

The Annual Financial and Audit Reports were presented to the Watermaster Board by Fedak & Brown LLP at the October 28, 2021 Board meeting. The Annual Financial and Audit Reports for FY 2020/21 will be posted to the Watermaster website after the audit firm has signed the documents. This is expected to occur no later than November 30, 2021.

PREVIOUSLY REPORTED ACTIONS (Descending Order) July 2021:

The auditors from the audit firm of Fedak & Brown LLP started the interim field work on June 8, 2021 through June 9, 2021. The plan was for the auditors not to be onsite at the Watermaster office for the interim field audit. Instead, all of the audit schedules, accounts payable selections, accounts receivable selections, bank reconciliations, payroll and timesheet selections, and any other reports and information were provided to the auditors electronically via Dropbox software. This was the start of the interim field work for the period of July 1, 2020 through March 31, 2021.

The final field work for the period of April 1, 2021 through June 30, 2021 was started on September 1, 2021 and continued through September 3, 2021.

FY 2021/22 EXHIBIT "G" NON-AGRICULTURAL POOL SALE OF WATER

CURRENT MONTH - SEPTEMBER 2021

No Exhibit "G" activity for the month to report.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

ASSESSMENTS AND OTHER INVOICING

CURRENT MONTH - SEPTEMBER 2021

FY 2021/22 Assessment Package

No new current activity to report.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

ATTACHMENTS

1. Financial Report – B5

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

1/12th (8.33%) of the Total Budget

3/12th (25.00%) of the Total Budget

100% of the Total Budget

			September 2021		Year-To-Date as of September 30, 2021				Fiscal Year End as of June 30, 2022			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
luare en	Actual	Budget	\$ Over(Olider)	% or Budget	Actual	Budget	\$ Over(Onder)	% or Budget	Projected	Buuget	\$ Over(Olider)	% of Budget
Income	0.00	0.00	0.00	0.004	477 400 00	477 400 00	0.00	100.00/	477 400 00	477 400 00	0.00	400.00/
4010 · Local Agency Subsidies	0.00	0.00	0.00	0.0%	177,430.03	177,430.00	0.03	100.0%	177,430.03	177,430.00	0.03	100.0%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	7,322,032.00	7,322,032.00	0.00	100.0%
4120 · Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	330,845.00	330,845.00	0.00	100.0%
4130 · Admin Asmnts-Agricultural Pool	200,000.00	0.00	200,000.00	100.0%	200,000.00	0.00	200,000.00	100.0%	200,000.00	0.00	200,000.00	100.0%
4700 · Non Operating Revenues	5,410.92	26,532.00	-21,121.08	20.39%	5,417.25	26,532.00	-21,114.75	20.42%	37,143.75	106,125.00	-68,981.25	35.0%
4900 · Miscellaneous Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	500.00	0.00	500.00	100.0%
Total Income	205,410.92	26,532.00	178,878.92	774.2%	382,847.28	203,962.00	178,885.28	187.71%	8,067,950.78	7,936,432.00	131,518.78	101.66%
Gross Profit	205,410.92	26,532.00	178,878.92	774.2%	382,847.28	203,962.00	178,885.28	187.71%	8,067,950.78	7,936,432.00	131,518.78	101.66%
<u>Expense</u>												
6010 · Admin. Salary/Benefit Costs	96,967.12	94,146.00	2,821.12	103.0%	345,684.12	341,139.00	4,545.12	101.33%	1,233,255.84	1,235,557.00	-2,301.16	99.81%
6020 · Office Building Expense	13,689.67	35,319.00	-21,629.33	38.76%	34,931.24	86,582.00	-51,650.76	40.35%	217,517.80	223,929.00	-6,411.20	97.14%
6030 · Office Supplies & Equip.	3,694.91	2,925.00	769.91	126.32%	10,455.51	75,990.16	-65,534.65	13.76%	93,903.32	99,690.16	-5,786.84	94.2%
6040 · Postage & Printing Costs	2,237.42	2,908.00	-670.58	76.94%	6,766.51	8,503.00	-1,736.49	79.58%	34,853.96	37,460.00	-2,606.04	93.04%
6050 · Information Services	11,691.82	14,040.00	-2,348.18	83.28%	34,893.70	44,350.00	-9,456.30	78.68%	172,344.00	173,398.00	-1,054.00	99.39%
6060 · Contract Services	5,025.94	10,600.00	-5,574.06	47.42%	9,708.10	28,800.00	-19,091.90	33.71%	52,832.40	56,545.00	-3,712.60	93.43%
6070 · Watermaster Legal Services	30,025.59	27,924.00	2,101.59	107.53%	93,309.60	83,265.00	10,044.60	112.06%	373,238.40	326,975.00	46,263.40	114.15%
6080 · Insurance	0.00	0.00	0.00	0.0%	40,581.57	44,470.00	-3,888.43	91.26%	45,081.57	46,797.00	-1,715.43	96.33%
6110 · Dues and Subscriptions	522.73	2,995.00	-2,472.27	17.45%	16,646.67	20,315.00	-3,668.33	81.94%	37,420.40	38,815.00	-1,394.60	96.41%
6140 · WM Admin Expenses	263.86	338.00	-74.14	78.07%	513.12	1,013.00	-499.88	50.65%	3,054.20	4,750.00	-1,695.80	64.3%
6150 · Field Supplies	0.00	500.00	-500.00	0.0%	0.00	813.00	-813.00	0.0%	2,750.00	2,750.00	0.00	100.0%
6170 · Travel & Transportation	1,883.44	1,675.00	208.44	112.44%	4,867.88	5,930.00	-1,062.12	82.09%	23,231.16	24,170.00	-938.84	96.12%
6190 · Training, Conferences, Seminars	1,075.00	3,400.00	-2,325.00	31.62%	4,558.16	10,200.00	-5,641.84	44.69%	37,532.64	40,800.00	-3,267.36	91.99%
6200 · Advisory Committee Expenses	3,147.88	4,599.00	-1,451.12	68.45%	9,906.71	14,386.00	-4,479.29	68.86%	51,325.64	55,336.00	-4,010.36	92.75%
6300 · Watermaster Board Expenses	10,284.50	13,890.00	-3,605.50	74.04%	28,771.82	42,614.00	-13,842.18	67.52%	175,021.20	190,149.00	-15,127.80	92.04%
8300 · Appr PI-WM & Pool Admin	22,700.26	14,687.00	8,013.26	154.56%	59,943.23	107,322.25	-47,379.02	55.85%	239,365.25	239,365.25	0.00	100.0%
8400 · Agri Pool-WM & Pool Admin	3,907.68	5,734.00	-1,826.32	68.15%	8,058.98	17,941.00	-9,882.02	44.92%	69,011.00	69,011.00	0.00	100.0%
8467 · Ag Legal & Technical Services	20,262.50	0.00	20,262.50	100.0%	57,925.00	61,814.00	-3,889.00	93.71%	61,814.00	61,814.00	0.00	100.0%
8470 · Ag Meeting Attend -Special	2,375.00	0.00	2,375.00	100.0%	6,375.00	19,525.00	-13,150.00	32.65%	19,525.00	19,525.00	0.00	100.0%
8471 · Ag Pool Expense	10,643.00	0.00	10,643.00	100.0%	10,643.00	31,516.00	-20,873.00	33.77%	31,516.00	31,516.00	0.00	100.0%
8485 · Ag Pool - Misc. Exp Ag Fund	0.00	0.00	0.00	0.0%	0.00	100.00	-100.00	0.0%	400.00	400.00	0.00	100.0%
8500 · Non-Ag PI-WM & Pool Admin	5,058.90	9,537.00	-4,478.10	53.05%	12,247.50	61,444.70	-49,197.20	19.93%	90,066.70	90,066.70	0.00	100.0%
9400 · Depreciation Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9500 · Allocated G&A Expenditures	-22,134.45	-38,787.00	16,652.55	57.07%	-64,835.35	-116,359.00	51,523.65	55.72%	-314,462.04	-465,442.00	150,979.96	67.56%
6900 · Optimum Basin Mgmt Plan	50,657.09	103,392.00	-52,734.91	49.0%	207,751.55	370,132.56	-162,381.01	56.13%	1,305,404.12	1,313,453.56	-8,049.44	99.39%
9501 · G&A Expenses Allocated-OBMP	7,198.42	13,937.00	-6,738.58	51.65%	17,692.22	41,809.00	-24,116.78	42.32%	88,007.24	167,242.00	-79,234.76	52.62%
7101 · Production Monitoring	3,846.24	7,908.00	-4,061.76	48.64%	23,542.22	25,685.00	-2,142.78	91.66%	102,435.08	102,740.00	-304.92	99.7%
7102 · In-line Meter Installation	0.00	1,303.00	-1,303.00	0.0%	0.00	361,192.00	-361,192.00	0.0%	0.00	373,617.00	-373,617.00	0.0%
7103 · Grdwtr Quality Monitoring	51,905.77	35,900.00	16,005.77	144.58%	131,213.44	136,012.00	-4,798.56	96.47%	350,862.92	352,035.00	-1,172.08	99.67%
7104 · Gdwtr Level Monitoring	14,541.15	24,857.00	-10,315.85	58.5%	47,847.17	75,939.00	-28,091.83	63.01%	301,701.00	303,753.00	-2,052.00	99.32%
7105 · Sur Wtr Qual Monitoring	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
7106 · Wtr Level Sensors Installation	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%

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

1/12th (8.33%) of the Total Budget

3/12th (25.00%) of the Total Budget

100% of the Total Budget

			of the Total Budg				of the Total Bud		100% of the Total Budget			
	For	The Month of	September 2021	•	Year-	To-Date as of Se	eptember 30, 20	21	Fis	cal Year End as	of June 30, 2022	2
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7107 · Ground Level Monitoring	4,191.12	21,456.00	-17,264.88	19.53%	96,432.60	153,281.00	-56,848.40	62.91%	345,730.40	346,810.00	-1,079.60	99.69%
7108 · Hydraulic Control Monitoring	1,012.98	6,499.00	-5,486.02	15.59%	5,952.98	24,221.00	-18,268.02	24.58%	79,008.48	83,379.00	-4,370.52	94.76%
7109 · Recharge & Well Monitoring Prog	0.00	2,767.00	-2,767.00	0.0%	1,706.25	8,302.00	-6,595.75	20.55%	31,325.00	33,208.00	-1,883.00	94.33%
7110 · Ag Production & Estimation	2,535.00	1,186.00	1,349.00	213.74%	5,080.50	46,239.00	-41,158.50	10.99%	54,322.00	56,910.00	-2,588.00	95.45%
7111 · Improved Data Collection & Mgmt	0.00	1,680.00	-1,680.00	0.0%	1,157.25	5,039.00	-3,881.75	22.97%	18,129.00	20,158.00	-2,029.00	89.94%
7200 · PE2- Comp Recharge Pgm	279,543.17	14,514.00	265,029.17	1,926.02%	306,550.01	523,869.00	-217,318.99	58.52%	1,449,208.48	1,458,198.00	-8,989.52	99.38%
7300 · PE3&5-Water Supply/Desalte	2,569.82	3,864.00	-1,294.18	66.51%	3,281.82	11,952.00	-8,670.18	27.46%	45,127.28	47,793.00	-2,665.72	94.42%
7400 · PE4- Mgmt Plan	40,982.00	24,981.00	16,001.00	164.05%	87,299.00	164,256.00	-76,957.00	53.15%	387,196.00	389,739.00	-2,543.00	99.35%
7500 · PE6&7-CoopEfforts/SaltMgmt	29,607.41	12,533.00	17,074.41	236.24%	62,058.99	111,823.00	-49,764.01	55.5%	225,214.40	225,364.00	-149.60	99.93%
7600 · PE8&9-StorageMgmt/Conj Use	18,995.12	25,695.00	-6,699.88	73.93%	28,534.66	120,781.00	-92,246.34	23.63%	350,890.72	353,463.00	-2,572.28	99.27%
7690 · Recharge Improvements	-156,259.00	0.00	-156,259.00	100.0%	529,029.00	2,222,321.20	-1,693,292.20	23.81%	1,888,029.00	2,222,321.20	-334,292.20	84.96%
7700 · Inactive Well Protection Prgm	0.00	42.00	-42.00	0.0%	0.00	125.00	-125.00	0.0%	500.00	500.00	0.00	100.0%
9502 · G&A Expenses Allocated-Projects	14,936.03	24,850.00	-9,913.97	60.11%	47,143.13	74,550.00	-27,406.87	63.24%	226,454.80	298,200.00	-71,745.20	75.94%
Total Expense	589,585.09	533,794.00	55,791.09	110.45%	2,334,224.86	5,469,202.87	-3,134,978.01	42.68%	10,000,144.36	10,752,260.87	-752,116.51	93.01%
Net Ordinary Income	-384,174.17	-507,262.00	123,087.83	75.74%	-1,951,377.58	-5,265,240.87	3,313,863.29	37.06%	-1,932,193.58	-2,815,828.87	883,635.29	68.62%
Other Income												
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4225 ⋅ Interest Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4226 · LAIF Fair Market Value	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4227 · AP Escrow Interest	23.87	0.00	23.87	100.0%	73.19	0.00	73.19	100.0%	292.76	0.00	292.76	100.0%
4600 · Groundwater Sales	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4715 · Gain on Sale of Assets	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other Income	23.87	0.00	23.87	100.0%	73.19	0.00	73.19	100.0%	292.76	0.00	292.76	100.0%
Other Expense												
5010 · Groundwater Replenishment	35,030.19	0.00	35,030.19	100.0%	35,030.19	0.00	35,030.19	100.0%	35,030.19	0.00	35,030.19	100.0%
5100 · Other Water Purchases	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9200 · Interest Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9251 · Other Post Employment Benefits	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996 · Refund-Excess Reserves-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996.5 · Refund-Basin O&M-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997 · Refund-Excess Reserves-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997.5 · Refund-Basin O&M-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9998 · Refund-Recharge Debt-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9999 · To/(From) Reserves	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other Expense	35,030.19	0.00	35,030.19	100.0%	35,030.19	0.00	35,030.19	100.0%	35,030.19	0.00	35,030.19	100.0%
Net Other Income	-35,006.32	0.00	-35,006.32	100.0%	-34,957.00	0.00	-34,957.00	100.0%	-34,737.43	0.00	-34,737.43	100.0%
Net Income	-419,180.49	-507,262.00	88,081.51	82.64%	-1,986,334.58	-5,265,240.87	3,278,906.29	37.73%	-1,966,931.01	-2,815,828.87	848,897.86	69.85%
					<u></u>							

Note: Please see the staff report (Financial Report-B10) for additional detailed information on the account categories.

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	General Journal	10/02/2021	10/02/2021	Payroll and Taxes for 09/19/21-10/02/21	Payroll and Taxes for 09/19/21-10/02/21	1012 · Bank of America Gen'l Ckg	
				ADP, LLC	Direct Deposits for 09/19/21-10/02/21	1012 · Bank of America Gen'l Ckg	31,114.86
				ADP, LLC	Payroll Taxes for 09/19/21-10/02/21	1012 · Bank of America Gen'l Ckg	11,994.39
				MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 09/19/21-10/02/21	1012 · Bank of America Gen'l Ckg	5,765.46
				MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 09/19/21-10/02/21	1012 · Bank of America Gen'l Ckg	1,694.48
TOTA	L						50,569.19
	Bill Pmt -Check	10/05/2021	ACH 100521	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
	Bill	10/01/2021	1394905143		Medical Insurance Premiums - October 2021	60182.1 · Medical Insurance	11,327.95
TOTA	L						11,327.95
	Bill Pmt -Check	10/06/2021	23093	ACCENT COMPUTER SOLUTIONS, INC.	147163	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	10/01/2021	147163		Monthly Services - October 2021	6052.4 · IT Managed Services	4,040.63
					Overwatch - October 2021	6052.5 · IT Data Backup/Storage	699.00
					OmniCloud - October 2021	6052.5 · IT Data Backup/Storage	170.00
					Office 365 Subscriptions/Business Premier - Oc	ctob 6052.4 · IT Managed Services	204.75
					Image office storage (per GB, per month)	6052.5 · IT Data Backup/Storage	546.00
TOTA	L						5,660.38
	Bill Pmt -Check	10/06/2021	23094	ACWA JOINT POWERS INSURANCE AUTHO	DRIT 0675100	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	10/01/2021	0675100		Prepayment - November 2021	1409 · Prepaid Life, BAD&D & LTD	244.93
					October 2021	60191 · Life & Disab.Ins Benefits	256.90
TOTA	L						501.83
	Bill Pmt -Check	10/06/2021	23095	APPLEONE	01-6048935	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/22/2021	01-6048935		Brian Summers	6017.2 · Office Specialist Services	1,245.04
TOTA	L						1,245.04
	Bill Pmt -Check	10/06/2021	23096	APPLIED COMPUTER TECHNOLOGIES	3461	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021	3461		Database Consulting - September 2021	6052.2 · Applied Computer Technol	3,850.00
TOTA	L						3,850.00
	Bill Pmt -Check	10/06/2021	23097	BANALES D.C.	02417	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/29/2021	02417		Installation of plumbing equipment & items	1840 · Capital Assets	2,910.00
TOTA	L						2,910.00
	Bill Pmt -Check	10/06/2021	23098	BURRTEC WASTE INDUSTRIES, INC.	N2112282821	1012 · Bank of America Gen'l Ckg	
	Bill	10/05/2021	N2112282821		October 2021 - customer #21136525395	6024 · Building Repair & Maintenance	142.50
TOTA	L						142.50

i	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	10/06/2021	23099	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/09/2021	9/09 Ag Pool Mtg		9/09/21 Ag Pool Mtg	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/20/2021	9/20 Special Ag Mtg		9/20/21 Special Ag Pool Mtg	8470 · Ag Meeting Attend -Special	125.00
TOTAL							250.00
	Bill Pmt -Check	10/06/2021	23100	ELIE, STEVEN	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/02/2021	9/02 Admin Mtg		9/02/21 Administrative meeting w/PK	6311 · Board Member Compensation	125.00
	Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL							250.00
	Bill Pmt -Check	10/06/2021	23101	EMPOWER LAB	1999	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021	1999		Empower Lab - September 2021	6193 · Employee Training	1,075.00
TOTAL							1,075.00
	Bill Pmt -Check	10/06/2021	23102	FEDAK & BROWN LLP	Auditing Progess Billing	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021			September 2021	6062 · Audit Services	4,850.00
TOTAL							4,850.00
	Bill Pmt -Check	10/06/2021	23103	FILIPPI, GINO	Ag Pool Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/16/2021	9/16 Advisory Comm		9/16/21 Advisory Committee mtg	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/20/2021	9/20 Special Ag Mtg		9/20/21 Special Ag Pool mtg	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board Mtg	8470 · Ag Meeting Attend -Special	125.00
TOTAL							375.00
	Bill Pmt -Check	10/06/2021	23104	FOLSOM, BETTY	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/20/2021	9/20 Board Mtg Prep		9/20/21 Board prep call w/Curatalo & Rogers	6311 · Board Member Compensation	125.00
	Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL							250.00
	Bill Pmt -Check	10/06/2021	23105	FONTANA UNION WATER COMPANY'	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/12/2021	8/12 AP Confidential		8/12/21 AP confidential session - Curatalo	6311 · Board Member Compensation	125.00
	Bill	08/17/2021	8/17 Budget/Comp Mtg		8/17/21 Budget/Staff Comp. mtg Curatalo	6311 · Board Member Compensation	125.00
	Bill	08/19/2021	8/19 AP and Advisory		8/19/21 AP confidential session - Curatalo	6311 · Board Member Compensation	125.00
	Bill	08/24/2021	8/24 Mtg w/PK		8/24/21 Meeting w/PK - Curatalo	6311 · Board Member Compensation	125.00
	Bill	08/26/2021	8/26 AP Confidential		8/26/21 AP confidential session - Curatalo	6311 · Board Member Compensation	125.00
	Bill	08/31/2021	8/30 Mtg w/PK		8/31/21 Meetng w/PK - Curatalo	6311 · Board Member Compensation	125.00
	Bill	09/02/2021	9/02 Admin Mtg		9/02/21 Meetng w/PK - Curatalo	6311 · Board Member Compensation	125.00
	Bill	09/03/2021	9/03 Legal Counsel		9/03/21 Mtg. w/AP Legal Counsel - Curatalo	6311 · Board Member Compensation	125.00
	Bill	09/07/2021	9/07 Admin Mtg		9/07/21 Mtg. w/Kavounas/ Kuhn - Curatalo	6311 · Board Member Compensation	125.00

- L				Name Name	Memo	Account	Paid Amount
	Bill	09/09/2021	9/09 Appro Pool Mtg		9/09/21 AP Meeting - Curatalo	6311 · Board Member Compensation	125.00
F	Bill	09/13/2021	9/13 Legal Counsel		9/13/21 Mtg. w/Legal Counsel - Curatalo	6311 · Board Member Compensation	125.00
ı	Bill	09/14/2021	9/14 Legal Counsel		9/14/21 Mtg. w/Legal Counsel - Curatalo	6311 · Board Member Compensation	125.00
ŀ	Bill	09/15/2021	9/15 Admin Mtg		9/15/21 Mtg. w/P. Kavounas - Curatalo	6311 · Board Member Compensation	125.00
ŀ	Bill	09/16/2021	9/16 Appro Pool Conf		9/16/21 AP Confidential Session - Curatalo	6311 · Board Member Compensation	125.00
ŀ	Bill	09/17/2021	9/17 Legal Counsel		9/17/21 Mtg. w/WM Legal Counsel - Curatalo	6311 · Board Member Compensation	125.00
ı	Bill	09/21/2021	9/21 Board Agenda		9/21/21 Board Agenda preview mtg Curatalo	6311 · Board Member Compensation	125.00
ı	Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board meeting - Curatalo	6311 · Board Member Compensation	125.00
ı	Bill	09/24/2021	9/24 Legal Counsel		9/24/21 Mtg. w/WM Legal Counsel - Curatalo	6311 · Board Member Compensation	125.00
F	Bill	09/27/2021	9/27 Board Members		9/27/21 Mtgs.w/WM Board Members - Curatalo	6311 · Board Member Compensation	125.00
TOTAL							2,375.00
,	Bill Pmt -Check	10/06/2021	23106	JOHN DIAZ PAINTING	Office Painting	1012 · Bank of America Gen'l Ckg	
ı	Bill	10/01/2021			Painting and remodel of women's restroom	1840 · Capital Assets	250.00
TOTAL							250.00
ļ	Bill Pmt -Check	10/06/2021	23107	NELSON, ANNA	Employee Expense Reimbursement	1012 · Bank of America Gen'l Ckg	
ı	Bill	09/29/2021	Emp Reimbursement	,	Reimbursement for adimin mtg. expenses	6141.3 · Admin Meetings	162.45
TOTAL			·		•	·	162.45
,	Bill Pmt -Check	10/06/2021	23108	PIETERSMA, RONALD	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	09/09/2021	9/09 Ag Pool Mtg		9/09/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/20/2021	9/20 Special Ag Pool		9/20/21 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL			3		J J	3 3	250.00
,	Bill Pmt -Check	10/06/2021	23109	PITNEY BOWES GLOBAL FINANCIAL SERVIO	CE 3105040076	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	10/01/2021	3105040076		Account #0011526621	6044 · Postage Meter Lease	430.63
TOTAL							430.63
ſ	Bill Pmt -Check	10/06/2021	23110	PREMIERE GLOBAL SERVICES	30724506	1012 · Bank of America Gen'l Ckg	
	Bill	09/29/2021	30724506	FREIMIERE GLOBAL SERVICES	Fee - General	6022 · Telephone	39.00
	Dill	03/23/2021	30724300		Service fee	6022 · Telephone	4.25
					Fee - Confidential	6022 · Telephone	39.00
					Service fee	6022 · Telephone	4.25
						·	
					Shortfall Minimum commitment	6022 · Telephone 6022 · Telephone	78.00 186.50
TOTAL					willimum communent	6022 · Teleprione	
TOTAL							351.00
ı	Bill Pmt -Check	10/06/2021	23111	PURCHASE POWER	8000-9090-0016-8851	1012 · Bank of America Gen'l Ckg	
	Bill	09/17/2021	8000909000168851		Postage refill - 9/17/21	6042 · Postage - General	499.50

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL							499.50
	Dill Door Observe	40/00/0004	00440	DOCEDO DETED	Barrel Marchae Communication	4040 Pauls of America Coull Class	
	Bill Pmt -Check	10/06/2021	23112	ROGERS, PETER	Board Member Compensation	1012 · Bank of America Gen'l Ckg 6311 · Board Member Compensation	125.00
	Bill Bill	09/20/2021 09/23/2021	9/20 Mtg w/AP Chair 9/23 Board Mtg		9/20/21 Meeting w/AP Chair 9/23/21 Board Meeting	6311 · Board Member Compensation	125.00 125.00
TOTAL	Dili	09/23/2021	9/23 Board Mig		3/23/21 Board Weeting	0311 - Board Member Compensation	250.00
TOTAL							200.00
	Bill Pmt -Check	10/06/2021	23113	RR FRANCHISING, INC.	Janitorial Services	1012 - Bank of America Gen'l Ckg	
	Bill	09/23/2021	103643		Electrostatic spraying-office-Sep. 18, 2021	6024 · Building Repair & Maintenance	222.50
	Bill	10/01/2021	103876		Monthly service - October 2021	6024 · Building Repair & Maintenance	915.00
TOTAL							1,137.50
	Bill Pmt -Check	10/06/2021	23114	STAPLES BUSINESS ADVANTAGE	8056333427	1012 · Bank of America Gen'l Ckg	
	Bill	09/29/2021	8056333427	STAFLES BUSINESS ADVANTAGE	Invoice from 11/28/19 - copy paper	6031.1 · Copy Paper	188.51
TOTAL	Diii	03/23/2021	000000427		invoice nom 11/25/15 copy paper	ooon in Sopy Laper	188.51
TOTAL							100.01
	Bill Pmt -Check	10/06/2021	23115	STATE COMPENSATION INSURANCE FUND	1000293043	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	10/01/2021	1970970		Policy # 1970970 - Premium 9/26/21-1026/21	60183 · Worker's Comp Insurance	702.33
TOTAL							702.33
	Bill Pmt -Check	10/06/2021	23116	ULINE	Miscellaneous Office Supplies	1012 · Bank of America Gen'l Ckg	
	Bill	09/16/2021	61263639		Trash cans and mats for office	6031.7 · Other Office Supplies	123.51
	Bill	09/20/2021	61376028		Floor mat for office	6031.7 · Other Office Supplies	30.01
TOTAL							153.52
	Dill Door Observe	40/00/0004	00447	IINION 70	7070 0045 0005 5040	4040 Pauls of America Coull Olar	
	Bill Pmt -Check	10/06/2021	23117	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg 6175 · Vehicle Fuel	336.94
TOTAL	DIII	09/29/2021	7076224530355049		September 2021	6175 · Venicie Fuei	336.94
TOTAL							330.94
	Bill Pmt -Check	10/06/2021	23118	VISION SERVICE PLAN	00-101789-0001	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/29/2021	813286689		Vision Insurance Premium - October 2021	60182.2 · Dental & Vision Ins	93.83
TOTAL							93.83
	Bill Pmt -Check	10/06/2021	23119	APPLEONE	01-6055168	1012 · Bank of America Gen'l Ckg	
	Bill	09/29/2021	01-6055168		Brian Summers	6017.2 · Office Specialist Services	1,260.80
TOTAL							1,260.80
	Bill Pmt -Check	10/06/2021	23120	BOWCOCK, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	09/09/2021	9/09 Non Ag Pool Mtg		9/09/21 Non-Ag Pool Meeting	6311 · Board Member Compensation	125.00
	Bill	09/16/2021	9/16 Advisory Comm		9/16/21 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
	===	33, 10,2021	s o . tar.cory commi		s. s. =	22 25a.a	120.00

Туре	Date	Num	Name	Memo	Account	Paid Amount
Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL					_	375.00
Bill Pmt -C	heck 10/06/2021	23121	GEYE, BRIAN	Non-Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	09/09/2021	9/09 Non Ag Pool Mtg		9/09/21 Non-Ag Pool Meeting	8511 · Non-Ag Pool Member Compensation	125.00
Bill	09/16/2021	9/16 Advisory Comm		9/16/21 Advisory Committee Meeting	8511 · Non-Ag Pool Member Compensation	125.00
Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board Meeting	8511 · Non-Ag Pool Member Compensation	125.00
TOTAL						375.00
Bill Pmt -C	heck 10/06/2021	23122	WEST YOST		1012 · Bank of America Gen'l Ckg	
Bill	08/31/2021	2046564	WEST 1001	2046564	6906.31 · OBMP-Pool, Adv. Board Mtgs	1,538.25
Bill	08/31/2021	2046565		2046565	6906.32 · OBMP-Other General Meetings	11,989.25
Bill	08/31/2021	2046566		2046566	6906.71 · OBMP-Data RegCBWM Staff	14,770.75
Bill	08/31/2021	2046567		2046567	6906.72 · OBMP-Data ReqNon CBWM Staff	1,159.75
Bill	08/31/2021	2046568		2046568	6906.22 · Water Rights Compliance Rprting	10,752.25
Bill	08/31/2021	2046569		2046569	6906 · OBMP Engineering Services	5,701.25
Bill	08/31/2021	2046570		2046570	6906.1 · OBMP-Watermaster Model Update	11,506.75
Bill	08/31/2021	2046571		2046571	6906.81 · Prepare Annual Reports	920.50
Bill	08/31/2021	2046572		2046572	6906.15 · Integrated Model Mtgs-IEUA Cost	8,818.50
Bill	08/31/2021	2046573		2046573	7103.3 · Grdwtr Qual-Engineering	39,581.03
Bill	08/31/2021	2046574		2046574	7104.3 · Grdwtr Level-Engineering	8,475.89
Bill	08/31/2021	2046575		2046575	7107.2 · Grdwtt Level-Engineering	6,283.61
Bill	08/31/2021	2046576		2046576	7107.2 · Grd Level-Engineering	519.75
Bill	08/31/2021	2046577		2046577	ğ ğ	404.25
DIII	00/31/2021	2040377		General Atomics	7107.2 · Grd Level-Engineering	
Bill	00/24/2024	2040570		2046578	7107.3 · Grd Level-SAR Imagery	77,623.00 1,706.25
Bill	08/31/2021	2046578			7109.3 · Recharge & Well - Engineering	
Bill	08/31/2021	2046579		2046579	7110.3 · Ag Prod. & Estimation-Eng. Serv	926.25
Bill	08/31/2021	2046580		2046580	7111.3 · Data Collection & Mgmt-Eng. Ser	1,157.25
	08/31/2021	2046581		2046581	7202.2 · Engineering Svc	4,552.00
Bill	08/31/2021	2046582		2046582	7402 10 PE4 Northwest M74 Area Proj	7,311.50
Bill Bill	08/31/2021	2046583		2046583	7402.10 · PE4 - Northwest MZ1 Area Proj.	19,929.75
	08/31/2021	2046584		2046584	7402 · PE4-Engineering	1,732.50
Bill	08/31/2021	2046585		2046585	7502 · PE6&7-Engineering	10,557.00
Bill	08/31/2021	2046586		2046586	7510 · PE6&7-IEUA Salinity Mgmt. Plan	12,776.25
Bill	08/31/2021	2046587		2046587	7614 · PE8&9-Develop S&R Master Plan	8,753.25
Bill	08/31/2021	2046588		2046588	6906.14 · Modeling for WSIP-100% IEUA	26,682.64
Bill	08/31/2021	2046589		2046589	7206.1 · SB88 Specs-Ensure Compliance	1,363.25
TOTAL						297,492.67
Bill Pmt -C	heck 10/06/2021	23123	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 - Bank of America Gen'l Ckg	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	09/09/2021	9/09 Appro Pool Mtg		9/09/21 AP meeting - Gardner	6311 · Board Member Compensation	125.00
	Bill	09/16/2021	9/16 Advisory Comm		9/16/21 Advisory Comm. meeting - Gardner	6311 · Board Member Compensation	125.00
	Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board meeting - Gardner	6311 · Board Member Compensation	125.00
TOTAL							375.00
	General Journal	10/15/2021	10/15/2021	ADP, LLC	ADP Tax Service for 09/18/21-590005889	1012 ⋅ Bank of America Gen'l Ckg	
				ADP, LLC	ADP Tax Service for 09/18/21-590005889	1012 · Bank of America Gen'l Ckg	155.50
				ADP, LLC	ADP Tax Service for 09/18/21-590005889	1012 · Bank of America Gen'l Ckg	155.50
TOTAL							311.00
	General Journal	10/21/2021	10/21/2021	Payroll and Taxes for 10/03/21-10/16/21	Payroll and Taxes for 10/03/21-10/16/21	1012 ⋅ Bank of America Gen'l Ckg	
				ADP, LLC	Direct Deposits for 10/03/21-10/16/21	1012 · Bank of America Gen'l Ckg	35,755.53
				ADP, LLC	Payroll and Taxes for 10/03/21-10/16/21	1012 · Bank of America Gen'l Ckg	12,859.34
				MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 10/03/21-10/16/21	1012 · Bank of America Gen'l Ckg	5,765.46
				MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 10/03/21-10/16/21	1012 · Bank of America Gen'l Ckg	1,694.48
TOTAL							56,074.81
	General Journal	10/19/2021	10/19/2021	HEALTH EQUITY	Health Equity Invoice 3115501	1012 ⋅ Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 3115501	1012 · Bank of America Gen'l Ckg	747.35
TOTAL							747.35
	Bill Pmt -Check	10/07/2021	ACH 100721	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
	General Journal	10/02/2021	10/07/2021	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 09/19/21-10/02/21	2000 · Accounts Payable	9,186.50
TOTAL							9,186.50
	Bill Pmt -Check	10/22/2021	23124	APPLEONE	Temporary Services	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	10/06/2021	01-6062812		Brian Summers	6017.2 · Office Specialist Services	1,245.04
	Bill	10/13/2021	01-6072228		Brian Summers	6017.2 · Office Specialist Services	1,260.80
TOTAL							2,505.84
	Bill Pmt -Check	10/22/2021	23125	BANK OF AMERICA	XXXX-XXXX-XXXX-4026	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021	XXXX-XXXX-XXXX-4026		Panels for PK office walls	6025 · Building Interior Renovations	2,793.91
					Miscellaneous office supplies	6031.7 · Other Office Supplies	25.71
					Miscellaneous office supplies	6031.7 · Other Office Supplies	270.95
					Monthly amount due for Zoom Webinar	6022 · Telephone	35.59
					Adhesive for PK wall panels	6025 · Building Interior Renovations	50.47
					Miscellaneous office supplies	6031.7 · Other Office Supplies	347.79
					Miscellaneous office supplies	6031.7 · Other Office Supplies	24.92
					Miscellaneous office supplies	6025 · Building Interior Renovations	180.24
					Routers for office	6055 · Computer Hardware	86.29

Туре	Date	Num	Name	Memo	Account	Paid Amount
				Miscellaneous office supplies	6031.7 · Other Office Supplies	6.68
				Miscellaneous office supplies	6031.7 · Other Office Supplies	59.08
				Miscellaneous office supplies	6031.7 · Other Office Supplies	13.41
				Miscellaneous office supplies	6031.7 · Other Office Supplies	112.09
				Miscellaneous office supplies	6031.7 · Other Office Supplies	39.83
				Copy paper	6031.1 · Copy Paper	453.84
				Miscellaneous office supplies	6031.7 · Other Office Supplies	42.29
				AN replacement monitor	6055 · Computer Hardware	234.60
				AN replacement monitor	6055 · Computer Hardware	234.60
				Mirror for men's restroom	6025 · Building Interior Renovations	242.28
				Miscellaneous office supplies	6031.7 · Other Office Supplies	114.62
				50% deposit on desktop and laptop	6055 · Computer Hardware	836.50
				Miscellaneous office supplies	6031.7 · Other Office Supplies	21.67
				Miscellaneous office supplies	6025 · Building Interior Renovations	152.44
				Miscellaneous office supplies	6025 · Building Interior Renovations	678.91
				Miscellaneous office supplies	6031.7 · Other Office Supplies	114.11
				Miscellaneous office supplies	6031.7 · Other Office Supplies	11.40
				Miscellaneous office supplies	6031.7 · Other Office Supplies	63.11
				Software license	6054 · Computer Software	52.51
				Miscellaneous office supplies	6031.7 · Other Office Supplies	36.44
				Miscellaneous office supplies	6031.7 · Other Office Supplies	35.85
				PK mtg w/Celeste Cantu	8312 · Meeting Expenses	16.20
				PK mtg w/John Bosler	8312 · Meeting Expenses	29.69
TOTAL						7,418.02
Bill Pmt -Che	ck 10/22/2021	23126	CORELOGIC INFORMATION SOLUTIONS	821021869	1012 ⋅ Bank of America Gen'l Ckg	
Bill	09/30/2021	82101863		September 2021	7103.7 · Grdwtr Qual-Computer Svc	62.50
Diii	00/00/2021	02101000		821021869	7101.4 · Prod Monitor-Computer	62.50
TOTAL				02.02.000	Trom Troumomor Compater	125.00
Bill Pmt -Che		23127	CUCAMONGA VALLEY WATER DISTRICT	Office Lease	1012 · Bank of America Gen'l Ckg	
Bill	10/19/2021			Lease due on November 1, 2021	1422 ⋅ Prepaid Rent	7,588.83
TOTAL						7,588.83
Bill Pmt -Che	ck 10/22/2021	23128	EGOSCUE LAW GROUP, INC.	September 2021	1012 · Bank of America Gen'l Ckg	
Bill	09/30/2021			Ag Pool Legal Services - September 2021	8467 · Ag Legal & Technical Services	20,262.50
TOTAL						20,262.50
		00400		40050400	4040 B 1 44 1 5 1151	
Bill Pmt -Che		23129	FIRST LEGAL NETWORK LLC	40053469	1012 - Bank of America Gen'l Ckg	475.01
Bill	09/30/2021	40053469		Court filings for September 2021	6061.5 · Court Filing Services	175.94

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL							175.94
	Bill Pmt -Check	10/22/2021	23130	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
	Bill	10/20/2021	90948438900509145		Office fax	6022 · Telephone	166.38
TOTAI	_						166.38
	Bill Pmt -Check	10/22/2021	23131	GREAT AMERICA LEASING CORP.	30293478	1012 · Bank of America Gen'l Ckg	
	Bill	10/20/2021	30293478		Invoice for October 2021	6043.1 · Ricoh Lease Fee	1,481.41
					Supply freight fee	6043.2 · Ricoh Usage & Maintenance Fee	8.57
TOTAI	_						1,489.98
	Bill Pmt -Check	10/22/2021	23132	JOHN J. SCHATZ	AP Legal Services	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021			September 2021	8367 · Legal Service	17,974.00
TOTAI		00/00/2021			- Coptom25. 202.	2001	17,974.00
	_						,
	Bill Pmt -Check	10/22/2021	23133	кини, вов	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	09/03/2021	9/03 Admin Mtg		9/03/21 Administrative Meeting	6311 · Board Member Compensation	125.00
	Bill	09/07/2021	9/07 mtg w/Bd Chair		9/07/21 Meeting w/Board Chair and GM	6311 · Board Member Compensation	125.00
	Bill	09/09/2021	9/09 Ag Pool Mtg		9/09/21 Ag Pool Meeting	6311 · Board Member Compensation	125.00
	Bill	09/16/2021	9/16 Advisory Comm		9/16/21 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
	Bill	09/17/2021	9/17 Admin Mtg		9/17/21 Administrative Meeting	6311 · Board Member Compensation	125.00
	Bill	09/21/2021	9/21 Exec Comm		9/21/21 Executive Committee Meeting	6311 · Board Member Compensation	125.00
	Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board Meeting	6311 · Board Member Compensation	125.00
TOTAI	_						875.00
	Bill Pmt -Check	10/22/2021	23134	LOEB & LOEB LLP	1975400	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021	1975400		Non-Ag Pool Legal Services - Sept. 2021	8567 · Non-Ag Legal Service	2,154.60
TOTAI	<u></u>						2,154.60
	Bill Pmt -Check	10/22/2021	23135	EASTVALE DEVELOPMENT - PIERSON	Ag Pool and Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill Bill	09/07/2021	9/07 Board Officers	LAGIVALE DEVELOT MENT - FIEROON	9/07/21 Board Officers Check-in	6311 · Board Member Compensation	125.00
	Bill	09/08/2021	9/08 Call w/Chair		9/08/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/09/2021	9/09 Ag Pool Mtg		9/09/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/15/2021	9/15 Call w/Chair		9/15/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/16/2021	9/16 Advisory Comm		9/16/21 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/17/2021	9/17 Call w/Chair		9/17/21 Call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/20/2021	9/20 Special Ag Mtg		9/20/21 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/21/2021	9/21 Board Agenda		9/21/21 Board agenda preview	6311 · Board Member Compensation	125.00
	Bill	09/23/2021	9/23 Board Mtg		9/23/21 Board Meeting	6311 · Board Member Compensation	125.00
	Bill	09/27/2021	9/27 Call w/Bd Chair		9/27/21 Call w/Board Chair	6311 · Board Member Compensation	125.00
						1 - 1	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	09/30/2021	9/30 Call w/Chair		9/30/21 Call w/Ag Pool Chair & legal counsel	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/30/2021	9/30 GLMC Mtg		9/30/21 GLMC Meeting	6311 · Board Member Compensation	125.00
TOTAL	-		·		, and the second	·	1,500.00
	Bill Pmt -Check	10/22/2021	23136	READY REFRESH	0023230253	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021	0023230253	READ! REFRESH	Office Water Bottle - September 2021	6031.7 · Other Office Supplies	118.24
TOTAL		03/30/2021	0020200200		Office Water Bottle Geptember 2021	odo 1.7 - Other Office Supplies	118.24
TOTAL	-						110.24
	Bill Pmt -Check	10/22/2021	23137	RR FRANCHISING, INC.	104604	1012 · Bank of America Gen'l Ckg	
	Bill	10/21/2021	104604		Deep cleaning of offices & meeting rooms	6024 · Building Repair & Maintenance	240.00
TOTAL	-						240.00
	Bill Pmt -Check	10/22/2021	23138	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
	Bill	10/31/2021			Retiree Medical	60182.4 · Retiree Medical	19.24
TOTAL							19.24
	Bill Pmt -Check	10/22/2021	23139	TELLEZ-FOSTER, EDGAR	Employee Expense Reimbursement	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	10/07/2021	10/07 Ops Staff Mtg		Ops staff meeting on10/07/21	6141.3 · Admin Meetings	98.89
TOTAL	-						98.89
	Bill Pmt -Check	10/22/2021	23140	VANDEN HEUVEL, GEOFFREY	Ag Pool Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/09/2021	9/09 Ag Pool Mtg		9/09/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/20/2021	9/20 Special Ag Pool		9/20/21 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/30/2021	6/10 Ag Pool Mtg		6/10/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/30/2021	7/08 Ag Pool Mtg		7/08/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/30/2021	8/12 Special Ag Pool		8/12/21 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	10/14/2021	10/14 Ag Pool Mtg		10/14/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL	-						750.00
	Bill Pmt -Check	10/22/2021	23141	VERIZON WIRELESS	9889893184	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	09/30/2021	9889893184	VENIZON WINCELOO	Acct #470810953-00002	6022 · Telephone	387.40
TOTAL		00/00/2021	3333333101		7,000 11 11 00 10000 00002	OOLL TOOPHOND	387.40
	Bill Pmt -Check	10/22/2021	23142	WAXIE SANITARY SUPPLY	80367578	1012 · Bank of America Gen'l Ckg	
	Bill	10/20/2021	80367578		Air purifier with stand	6038 · Other Office Equipment	396.25
TOTAL	-						396.25
	Bill Pmt -Check	10/22/2021	ACH 102221	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	10/16/2021	10/16/2021	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 10/03/21-10/16/21	2000 · Accounts Payable	9,186.50
TOTAL							9.186.50

Туре	e Date Num Na		Name	Memo	Account	Paid Amount
General Journal	10/25/2021	10/25/2021	HEALTH EQUITY	Health Equity Invoice 3063261	1012 · Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 3063261	1012 · Bank of America Gen'l Ckg	76.25
TOTAL						76.25
Bill Pmt -Check	10/26/2021	23143	BROWNSTEIN HYATT FARBER SCHRECK		1012 ⋅ Bank of America Gen'l Ckg	
Bill	09/30/2021	862329		862329	6078 · BHFS Legal - Miscellaneous	19,488.60
Bill	09/30/2021	862330		Personnel matters	6073 · BHFS Legal - Personnel Matters	499.95
Bill	09/30/2021	862331		Audit Response	6078 · BHFS Legal - Miscellaneous	738.45
Bill	09/30/2021	862332		862332	6907.34 · Santa Ana River Water Rights	247.50
Bill	09/30/2021	862333		862333	6907.36 · Santa Ana River Habitat	247.50
Bill	09/30/2021	862334		862334	6275 · BHFS Legal - Advisory Committee	594.00
Bill	09/30/2021	862335		862335	6375 · BHFS Legal - Board Meeting	2,603.25
Bill	09/30/2021	862336		862336	8375 · BHFS Legal - Appropriative Pool	891.00
Bill	09/30/2021	862337		862337	8475 · BHFS Legal - Agricultural Pool	891.00
Bill	09/30/2021	862338		862338	8575 · BHFS Legal - Non-Ag Pool	891.00
Bill	09/30/2021	862339		862339	6071 · BHFS Legal - Court Coordination	1,352.25
Bill	09/30/2021	862340		862340	6072 · BHFS Legal - Rules & Regs	4,914.00
Bill	09/30/2021	862341		862341	6077 · BHFS Legal - Party Status Maint	1,237.50
Bill	09/30/2021	862342		862342	6907.47 · 2020 Safe Yield Reset	99.00
Bill	09/30/2021	862343		862343	6078.25 ⋅ Ely 3 Basin Investigation	1,610.10
				CourtCall - Sandler	6078.25 ⋅ Ely 3 Basin Investigation	94.00
				Filing Fee	6078.25 ⋅ Ely 3 Basin Investigation	90.74
TOTAL						36,489.84
General Journal	10/26/2021	10/26/2021	HEALTH EQUITY	Health Equity Invoice 3130433	1012 ⋅ Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 3130433	1012 · Bank of America Gen'l Ckg	27.24
TOTAL						27.24
Bill Pmt -Check	10/26/2021	ACH 102621	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
Bill	10/01/2021	16570286		Annual Unfunded Accrued Liability-Plan 3299	60180 · Employers PERS Expense	8,989.42
TOTAL						8,989.42
					Total Disbursements:	575,651.59
						,

I. CONSENT CALENDAR (AP & OAP)
C. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE
RECHARGE MASTER PLAN
L DUONIEGO ITEMO DOUTINE (ONAD)
I. <u>BUSINESS ITEMS – ROUTINE</u> (ONAP)
C. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE
RECHARGE MASTER PLAN
Page 86



CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Annual Finding of Substantial Compliance with the Recharge Master Plan

(Consent Calendar Item I.C.)

SUMMARY:

Issue: The Finding is required on an annual basis according to Section 8.3 of the Peace II Agreement.

<u>Recommendation:</u> Recommend to Advisory Committee to recommend to the Watermaster Board to adopt the finding that Watermaster is in substantial compliance with the Recharge Master Plan.

Financial Impact: There is no financial impact associated with this action.

Future Consideration

Appropriative Pool – November 10, 2021: Advice and Assistance Non-Agricultural Pool – November 10, 2021: Advice and Assistance Agricultural Pool – November 10, 2021: Advice and Assistance Advisory Committee – November 18, 2021: Advice and Assistance

Watermaster Board - November 18, 2021: Adoption [Normal Course of Business]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

During the period of 2008-2010, Watermaster, in collaboration with the Inland Empire Utilities Agency (IEUA) and Chino Basin Water Conservation District (CBWCD), completed the 2010 Recharge Master Plan Update (RMPU). The RMPU was submitted to the Court in June 2010, and the Court subsequently approved the 2010 RMPU in October 2010. Watermaster has completed the amendment of the 2010 RMPU, pursuant to the Court's order, which the Board adopted in September 2013. The IEUA and Watermaster completed the most recent version RMPU in 2018 and will complete the next RMPU before the end of 2023.

Pursuant to Section 8.3 of the Peace II Agreement, Watermaster is obligated to make an annual finding that it is in substantial compliance with the Recharge Master Plan, as it is revised. This requirement exists to ameliorate any long-term risk attributable to reliance upon un-replenished groundwater production by the Desalters and is a condition on the annual availability of any portion of the 400,000 acre-feet set aside as controlled overdraft (Re-Operation). Recently, pursuant to Section 6.2(b) of the Peace Agreement, as the amendment is shown in the March 15, 2019 Court Order, the Desalter Replenishment Obligation is now being replenished by the Appropriative Pool through wet or stored water. West Yost (WY) has prepared the attached opinion regarding the adequacy of replenishment capacity, which includes the information that Watermaster needs to make this finding for Fiscal Year 2021-2022.

DISCUSSION

WY's analysis finds that current projections indicate that Watermaster has sufficient recharge capacity to meet the future replenishment obligations based on the knowledge of the basin's conditions in FY 2020-21 and future water management projections provided by the Watermaster Stakeholders. Current analysis indicates that even if Re-Operation were terminated at any time through 2030, Watermaster would be able to immediately increase its replenishment activity and replenish any overproduction in the Basin as required by the Judgment.

ATTACHMENTS

1. October 29, 2021 Letter from West Yost to Watermaster: Annual Finding of Substantial Compliance with the Revised Watermaster Recharge Master Plan – Fiscal Year 2021-22

October 29, 2021 Project No.: 941-80-21-45

SENT VIA: EMAIL

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

SUBJECT: Annual Finding of Substantial Compliance with the Recharge Master Plan -

Fiscal Year 2021-22

Mr. Kavounas:

At your direction and pursuant to the Peace II Agreement, West Yost has prepared this opinion regarding the adequacy of replenishment capacity in the Chino Basin to support an annual finding of substantial compliance with the Chino Basin Watermaster (Watermaster) Recharge Master Plan (RMP).

In part, Section 7.3 of the Peace II Agreement reads:

Re-Operation and Watermaster's apportionment of controlled overdraft will not be suspended in the event that Hydraulic Control is achieved in any year before the full 400,000 acre-feet has been produced so long as: [...] Watermaster is in substantial compliance with a Court approved Recharge Master Plan as set forth in Paragraph 8.1 below.

Review of Section 8.1 of the Peace II Agreement indicates that this compliance relates to the implementation of plans to ensure that Watermaster has enough supplemental water recharge capacity to meet its replenishment obligation after re-operation water is completely exhausted. Section 8.3 of the Peace II Agreement states:

To ameliorate any long-term risks attributable to reliance upon un-replenished groundwater production by the Desalters, the annual availability of any portion of the 400,000 acre-feet set aside as controlled overdraft as a component of the Physical Solution, is expressly subject to Watermaster making an annual finding about whether it is in substantial compliance with the revised Watermaster Recharge Master Plan pursuant to Paragraphs 7.3 and 8.1 above.

Pursuant to the Peace II Agreement, following the completion of the 2010 Recharge Master Plan Update (RMPU), Watermaster is obligated to make an annual finding that there is enough supplemental water recharge capacity to meet projected replenishment obligations.

This letter report includes the information required by Watermaster to determine if there is enough supplemental water recharge capacity to meet its projected replenishment obligations.

METHODOLOGY

The methodology used to determine if sufficient supplemental wet-water recharge capacity is available to meet projected replenishment obligations is to compare projected replenishment obligations to available supplemental wet-water recharge capacity over the period 2020 through 2050.

The most recent projections of replenishment obligations were developed in 2020 as part of the 2020 Safe Yield Recalculation (2020 SYR) for the period of 2020 through 2050. These replenishment obligation projections are based on the Watermaster Parties' (Parties) best estimates of how future water supplies will be used to meet their water demands.

The most recent estimates of supplemental water recharge capacity were developed in 2018 as part of the 2018 RMPU.² As of this writing, the supplemental water recharge capacity in the Chino Basin is assumed to be constant through 2050.

This analysis also considers the potential for certain conditions to impact Watermaster's ability to meet its replenishment obligations, including:

- Reduced availability of imported water
- Suspension of Basin Reoperation
- Contractual requirements of the Dry-Year Yield Program

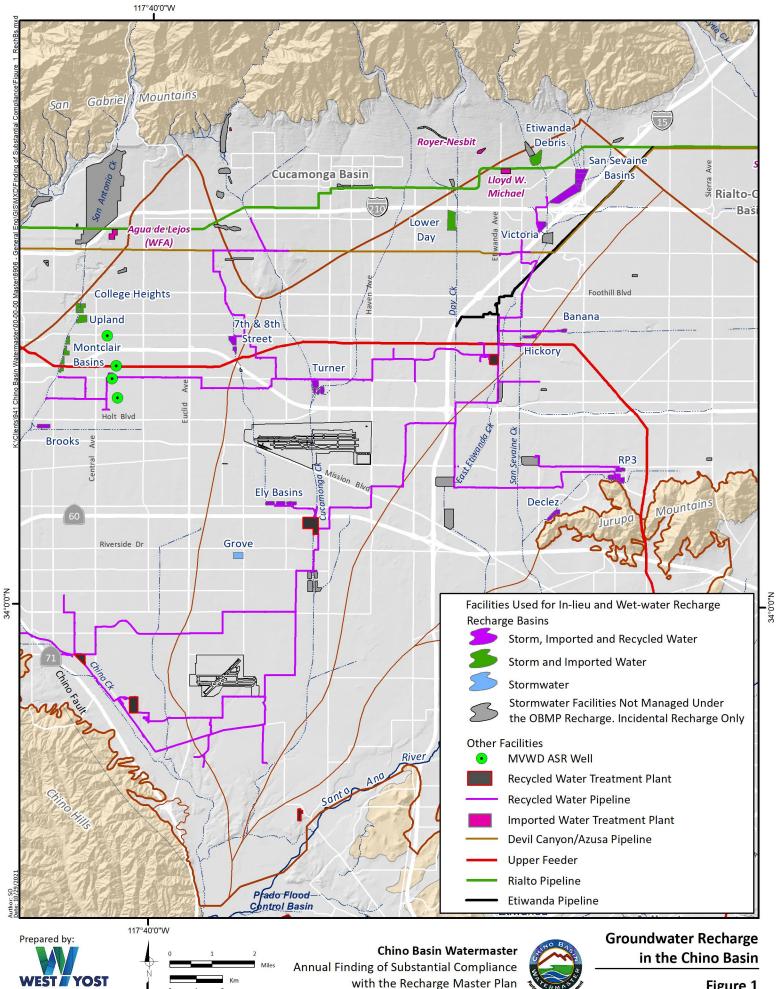
RESULTS

Supplemental wet-water recharge capacity includes the capacity of spreading basins available for supplemental water recharge and the capacity to inject supplemental water at aquifer storage and recovery (ASR) wells. Figure 1 shows the locations of spreading basins and ASR wells in the Chino Basin. The supplemental water recharge capacity in the Chino Basin is listed in Table 1 by the type of recharge facility.³

¹ WEI. (2020). 2020 Safe Yield Recalculation. Prepared for the Chino Basin Watermaster. April 2020. https://cbwm.syncedtool.com/shares/folder/Cdw2ChSpH9O/?folder_id=2512

² WEI. (2018). *2018 Recharge Master Plan Update*. October 2018. http://www.cbwm.org/docs/engdocs/2018%20RMPU/20180914 2018 RMPU final.pdf

³ For additional technical documentation on the development of wet-water recharge capacity estimates, refer to Section 4 of the 2018 Recharge Master Plan Update.



Page 91

Water. Engineered.

Table 1. Supplemental wet-water recharge capacity in the Chino Basin

Recharge Facility	Recharge Capacity acre-feet per year (afy)
Spreading basins ⁴	56,600
ASR wells	5,480
Total	61,480

Table 2 shows the supplemental wet-water recharge capacity [Column (b)] and the projected annual replenishment obligation from 2021 to 2050 [Column (c)].⁵ Comparing Columns (b) and (c) in Table 2 indicates there is sufficient supplemental wet-water recharge capacity (61,480 afy) to meet the projected wet-water replenishment obligations (up to 3,800 afy).

Reduced Availability of Imported Water

The Metropolitan Water District of Southern California (Metropolitan) provides imported water to the Chino Basin area through the Inland Empire Utilities Agency (IEUA). The imported water supplies are not guaranteed to Watermaster because during periods of shortages (when Metropolitan's demands exceed available supplies) Metropolitan may not deliver imported water to the Chino Basin for replenishment.

In January 2016, Metropolitan completed its 2015 Integrated Resources Plan (IRP) Update.⁶ Metropolitan reported that if its IRP is fully implemented, shortages in Metropolitan supplies will occur approximately 9 percent of the time under 2020 conditions, 4 percent of the time under 2025 conditions, and 0 percent under 2030 conditions. However, as Metropolitan implements the 2015 IRP, modifications to the proposed projects in the IRP may cause additional shortages than previously projected. For instance, in 2019, one of the main projects recommended in the 2015 IRP – the California WaterFix tunnel project (now called the Delta Conveyance Project) – was downsized. As of this writing, construction of this project is not certain. If Metropolitan does not fully implement its 2015 IRP, shortages in Metropolitan supplies are projected to occur about 12 percent of the time under 2020 conditions and up to 80 percent under 2040 conditions.

This uncertainty in imported water availability was accounted for in the 2018 RMPU and in this analysis by assuming that if Metropolitan does not fully implement its 2015 IRP, Watermaster will only be able to purchase water from Metropolitan for replenishment purposes in one out of five years (*i.e.*, shortages will occur 80 percent of the time). Table 2 [Column (d)] shows the projected recharge capacity required to meet replenishment obligation if imported water is available one out of five years. Comparing Columns (b) and (d) in Table 2 indicates there is sufficient supplemental wet-water recharge capacity (61,480 afy) to meet the maximum projected wet-water replenishment obligation if imported water is available one out of five years (up to 15,494 afy).

⁴ This estimate includes the use of spreading basins for stormwater recharge (*i.e.*, excludes the recharge capacity used for stormwater recharge).

⁵ The 2020 SYR assumes 80 percent of a replenishment obligation is satisfied from storage and 20 percent is satisfied by wet-water recharge via spreading and injection (see Table 7-3 of the 2020 SYR).

⁶ Metropolitan Water District of Southern California (2016). Integrated Water Resources Plan: 2015 Update. Report No. 1518. http://www.mwdh2o.com/

Table 2. Supplemental Wet-Water Recharge Capacity, Projected Replenishment Obligation, and Recharge **Capacity Required to Meet Replenishment Obligations Under Cumulative Adverse Conditions**

FY 2020-2050; acre-feet per year

		Projected annual replenishment		ity required to meet der cumulative adve		Excess supplemental wet-
Fiscal Year	Supplemental wet-water recharge capacity	obligation assumed to be satisfied by wet- water recharge in the 2020 Safe Yield Reset	If imported water is available one out of five years	If reoperation were discontinued (e) = (d) + reoperation	If DYYP recharge occurs on the same year	water recharge capacity under worst-case scenario
(a)	(b)	(c)	(d)	offset	(f) = (e) + 25,000	(g) = (f) - (b)
2021		0				
2022		0				
2023		0				
2024		0	0	0	25,000	36,480
2025		0	0	0	23,000	30,480
2027		0				
2028		0				
2029		0				
2030		0	0	12,680	37,680	23,800
2031		0		,		,
2032		459				
2033		971				
2034		1,482				
2035	61,480	1,994	4,906	4,906	29,906	31,574
2036	01,480	2,362				
2037		2,731				
2038		3,099				
2039		3,467				
2040		3,835	15,494	15,494	40,494	20,986
2041		3,022				
2042		3,022				
2043		3,022				
2044		3,022				24.25
2045		3,022	15,110	15,110	40,110	21,370
2046		3,022				
2047		3,022				
2048		3,022				
2049		3,022	15 110	15 110	40 110	24 270
2050		3,022	15,110	15,110	40,110	21,370

Suspension of Basin Reoperation

The annual maximum amount of Basin Reoperation water used to meet the replenishment obligation of the Desalters is 12,500 afy through 2030. If Basin Reoperation was discontinued at any time through 2030, the annual maximum replenishment obligation could increase. Table 2 [Column (e)] shows the projected recharge capacity required to meet replenishment obligations if Basin Reoperation were discontinued at any point before 2030. Comparing Columns (b) and (e) in Table 2 indicates there is sufficient supplemental wet-water recharge capacity (61,480 afy) to meet the maximum projected wet-water replenishment obligation if Basin Reoperation were discontinued at any point before 2030 (up to 15,494 afy).

Contractual Requirements of the Dry-Year Yield Program

The IEUA and Watermaster have a contractual requirement with Metropolitan to recharge up to 25,000 afy under the Dry-Year Yield Program (DYYP). The DYYP contract terminates in 2028. Table 2 [Column (f)] shows the projected recharge capacity required to meet replenishment obligations and to recharge 25,000 afy for DYYP, assuming DYYP continues after 2028. Comparing Columns (b) and (f) in Table 2 indicates there is sufficient supplemental wet-water recharge capacity (61,480 afy) to meet the maximum projected wet-water replenishment obligation and recharge up to 25,000 afy for DYYP (up to 40,494 afy).

Other Recharge and Excess Capacity

Some Parties want to utilize wet-water recharge capacity to store supplemental water in the Chino Basin. Table 2 [Column (g)] shows the excess supplemental wet-water recharge capacity under the worst-case scenario (i.e., reduced imported water availability, suspension of Basin Reoperation, and DYYP recharge). The minimum excess supplemental wet-water recharge capacity under the worst-case scenario from 2021 to 2050 is projected to be about 21,000 afy. Therefore, this analysis indicates that at least 21,000 afy of wet-water recharge capacity will be available for the Parties to recharge and store supplemental water in the Chino Basin through 2050.

CONCLUSIONS

Watermaster's ability to recharge the Chino Basin with supplemental water is sufficient to meet its projected replenishment obligations, even under conditions of reduced availability of imported water, increased replenishment obligations (*i.e.*, suspension of Basin Reoperation), and/or decreased recharge capacity (*i.e.*, the need to recharge for the DYYP). Additionally, there is about 17,700 afy of in-lieu recharge capacity available that can be used to meet future replenishment obligations.

Please contact Carolina Sanchez if you have any questions or concerns regarding this opinion.

Sincerely, WEST YOST

Carolina Sanchez, PE Senior Engineer RCE #85598

I. CONSENT CALENDAR (AP & OAP)
D. 2020/21 ANNUAL REPORT OF THE GROUND-LEVEL MONITORING
COMMITTEE
I. <u>BUSINESS ITEMS – ROUTINE</u> (ONAP)
D. 2020/21 ANNUAL REPORT OF THE GROUND-LEVEL MONITORING COMMITTEE
COMMITTEE
Page 95



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/OAP/ONAP Committee Members

SUBJECT: 2020/21 Annual Report of the Ground-Level Monitoring Committee (Consent Calendar

Item I.D.)

SUMMARY:

<u>Issue</u>: Watermaster is required annually to file a Ground-Level Monitoring report with the Court. The 2020/21 Annual Report has been drafted and reviewed by the Ground-Level Monitoring Committee.

<u>Recommendation:</u> Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the 2020/21 Annual Report of the Ground-Level Monitoring Committee, along with filing a copy with the Court.

<u>Financial Impact:</u> Approval of the report does not result in additional expenses. All the recommendations in the 2021/22 Annual Report for the ongoing monitoring program are included in the approved FY 2020/21 budget.

Future Consideration

Appropriative Pool – November 10, 2021: Advice and Assistance Non-Agricultural Pool – November 10, 2021: Advice and Assistance Agricultural Pool – November 10, 2021: Advice and Assistance Advisory Committee – November 18, 2021: Advice and Assistance

Watermaster Board - November 18, 2021: Approve and file with the Court [Discretionary Function]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

In 1999, the OBMP Phase I Report identified pumping-induced drawdown and resultant aquifer-system compaction as the most likely cause of land subsidence and ground fissuring that had been observed in Management Zone 1 (MZ-1). Program Element 4 of the OBMP, "Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1," called for the development and implementation of a long-term Subsidence Management Plan to minimize or abate the occurrence of subsidence and ground fissuring.

From 2001 to 2005, Watermaster developed, coordinated, and conducted a comprehensive investigation under the guidance of the MZ-1 Technical Committee (now called the Ground-Level Monitoring Committee or GLMC) to understand the causes of the subsidence and fissuring in the southwestern portion of MZ-1. The investigation provided enough information for Watermaster to develop Guidance Criteria for the producers in the investigation area that, if followed, would minimize the potential for subsidence and fissuring during the completion of the Subsidence Management Plan. The Guidance Criteria formed the basis for the Subsidence Management Plan, which was developed by the GLMC and approved by Watermaster in October 2007. By a November 15, 2007 Order, the Watermaster Court approved the Subsidence Management Plan and ordered its implementation. The Subsidence Management Plan was updated in 2015 to include a recommendation to develop a Subsidence Management Plan specific to the northwestern portion of the Chino Basin where gradual and persistent subsidence is an ongoing concern.

The Subsidence Management Plan states that Watermaster will produce an annual report, which includes the results of ongoing monitoring efforts, interpretations of the data, recommendations for future monitoring efforts, and recommendations for adjustments to the Subsidence Management Plan, if any. The Court's 2007 Order directed Watermaster to file the annual reports with the Court.

DISCUSSION

The final 2020/21 Annual Report of the GLMC (Attachment 1) includes results and interpretations for data that were collected during FY 2020/21 and includes recommendations for Watermaster's Ground-Level Monitoring Program for FY 2021/22.

The GLMC met on March 4, 2021 to review and discuss the recent monitoring results and to develop a scope-of-work and budget for FY 2021/22. Subsequently, an overview of the monitoring results and the proposed scope-of-work and budget for FY 2021/22 were presented to the Pool Committees in April 2021 and at Watermaster's budget workshops.

The GLMC was provided with the draft annual report on September 24, 2021 for review and comment. The GLMC met on September 30, 2021 to review and discuss the draft annual report with Watermaster Staff and Engineer. The GLMC submitted comments during the comment window and were addressed in the final report attached.

ATTACHMENTS

1. 2020/21 Annual Report of the Ground-Level Monitoring Committee

FINAL REPORT | NOVEMBER 2021

2020/21 Annual Report of the Ground-Level Monitoring Committee

PREPARED FOR

Ground-Level Monitoring Committee



PREPARED BY



2020/21 Annual Report of the Ground-Level Monitoring Committee

Prepared for

Ground-Level Monitoring Committee

Project No. 941-80-21-61

Project Manager: Michael Blazevic

al EML

November 3, 2021

Date

QA/QC Review: Andy Malone

November 3, 2021

Date



Table of Contents

1.0 Introduction	1-1
1.1 Background	1-11-21-51-6
1.2 Report Organization	1-7
2.0 Ground-Level Monitoring Program	2-1
2.1 Ground-Level Monitoring Program 2.1.1 Setup and Maintenance of the Monitoring Facilities Network 2.1.2 Monitoring Activities. 2.1.2.1 Monitoring of Pumping, Recharge, and Piezometric Levels 2.1.2.2 Monitoring Vertical Aquifer-System Deformation 2.1.2.3 Monitoring Vertical Ground Motion 2.1.2.4 Monitoring of Horizontal Ground Motion	2-12-22-22-22-2
2.2 Land-Subsidence Investigations	2-5 Zone2-5
3.0 Results and Interpretations	3-1
3.1 Managed Area	3-1 3-1 3-2 3-4
3.2 Southeast Area	3-6
3.3 Central MZ-1	3-6
3.4 Northwest MZ-1	3-7
3.5 Northeast Area	3-10
3.6 Seismicity	3-11
4.0 Conclusions and Recommendations	4-1
4.1 Conclusions and Recommendations	4-1
4.2 Recommended Scope and Budget for Fiscal Year 2021/22	4-3
4.3 Changes to the Subsidence Management Plan	4-3

i

Table of Contents

5.0) Glossary	5-1
6.0) References	6-1
LIS	T OF TABLES	
	Table 1-1. Managed Wells Screened in the Deep Aquifer and Subject to the Guidance Criteria	1-4
	Table 2-1. 2020/21 Interferograms Short- and Long-Term Time-Periods	2-3
	Table 2-2. Benchmark Monuments Surveyed in Ground-Level Survey Areas	2-4
	Table 2-3. Number of Benchmark Surveyed	
	Table 3-1. Groundwater Pumping in the Managed Area of Fiscal Year 2012 through 2021	3-3
LIS	T OF FIGURES	
	Figure 1-1. Historical Land Surface Deformation in Management Zone 1: 1987-1999	1-8
	Figure 1-2. MZ-1 Managed Area and the Managed Wells	1-9
	Figure 2-1. Pumping and Recharge Facilities - Western Chino Basin: 2020/21	2-9
	Figure 2-2. Ground-Level Monitoring Network - Western Chino Basin	. 2-10
	Figure 3-1a. Vertical Ground Motion across the Western Chino Basin: 2011-2021	.3-12
	Figure 3-1b. Vertical Ground Motion across the Western Chino Basin: 2020-2021	.3-13
	Figure 3-2. History of Land Subsidence in the Managed Area	.3-14
	Figure 3-3. Stress and Strain within the Managed Area	.3-15
	Figure 3-4. Stress-Strain Diagram - Ayala Park Extensometer	.3-16
	Figure 3-5. Hydraulic Heads at C-15 versus Groundwater Pumping and Vertical Ground Motion	.3-17
	Figure 3-6. History of Land Subsidence in the Southeast Area	.3-18
	Figure 3-7. Stress and Strain within the Southeast Area	.3-19
	Figure 3-8. History of Land Subsidence in Central MZ-1	.3-20
	Figure 3-9. History of Land Subsidence in Northwest MZ-1	.3-21
	Figure 3-10. Vertical Ground Motion across Northwest MZ-1: 2014-2021	. 3-22
	Figure 3-11. Hydraulic Heads at P-30 versus Groundwater Pumping and Vertical Ground Motion	.3-23
	Figure 3-12. Horizontal Strain across the San Jose Fault as Calculated from Electronic Distance Measurements: 2013-2021	. 3-24
	Figure 3-13. History of Land Subsidence in the Northeast Area	.3-25
	Figure 3-14. Seismicity across the Chino Basin: 2011-2021	.3-26

Table of Contents

LIST OF APPENDICES

Appendix A: Recommended Scope and Budget of the Ground-Level Monitoring Committee for

FY 2021/22

Appendix B: Response to GLMC Comments

LIST OF ACRONYMS, ABBREVIATIONS, AND INITIALISMS

af Acre-feet

Ayala Park Rubin S. Ayala Park

Ayala Park Extensometer Extensometer at Ayala Park

BMA Baseline Management Alternative
CCX Chino Creek Extensometer Facility
DHX Daniels Horizontal Extensometer
EDM Electronic distance measurement

ft Feet

ft-amsl Feet above mean sea level ft-btoc Feet below top of casing ft-bgs Feet below ground surface

ft/yr Feet per year FY Fiscal Year

GLMC Ground-Level Monitoring Committee
GLMP Ground-Level Monitoring Program

IMP Management Zone 1 Interim Monitoring Program

InSAR Interferometric synthetic aperture radar
ISMA Initial Subsidence Management Alternative

MVWD Monte Vista Water District

MZ-1 Chino Basin Optimum Basin Management Plan Management Zone 1

MZ-1 Plan Management Zone 1 Subsidence Management Plan

OBMP Optimum Basin Management Plan

PA Piezometer A (Ayala Park extensometer facility)
PC Piezometer C (Ayala Park extensometer facility)

PFAS Per – and polyfluoroalkyl substances
PX Pomona Extensometer Facility
SAR Synthetic Aperture Radar

SCADA Supervisory Control and Data Acquisition
SMA-2 Second Subsidence-Management Alternative
Subsidence Management Plan 2015 Chino Basin Subsidence Management Plan

TCP 1,2,3-trichloropropane

USGS United States Geological Survey

Watermaster Chino Basin Watermaster
WEI Wildermuth Environmental, Inc.

Work Plan Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1

1.0 INTRODUCTION

This section describes background information on the history of land subsidence and ground fissuring in the Chino Basin, information on the formation of the Ground-Level Monitoring Committee (GLMC) and its responsibilities, and a description of the development and implementation of the Management Zone 1 Subsidence Management Plan (MZ-1 Plan) and the 2015 Chino Basin Subsidence Management Plan (Subsidence Management Plan).

1.1 Background

In general, land subsidence is the sinking or settlement of the Earth's surface due to the rearrangement of subsurface materials. In the United States, over 17,000 square miles in 45 states have experienced land subsidence (United States Geologic Survey [USGS], 1999). In many instances, land subsidence is accompanied by adverse impacts at the ground surface, such as sinkholes, earth fissures, encroachment of adjacent water bodies, modified drainage patterns, and others. In populated regions, these subsidence-related impacts can result in severe damage to man-made infrastructure and costly remediation measures. Over 80 percent of the documented cases of land subsidence in the United States have been caused by groundwater extractions from the underlying aquifer-system (USGS, 1999).

For purposes of clarification in this document, subsidence refers to the inelastic deformation (i.e., sinking) of the land surface. The term inelastic typically refers to the permanent, non-recoverable deformation of the land surface or the aquifer-system. The term elastic typically refers to fully reversible deformation of the land surface or the aquifer-system. A glossary of terms and definitions discussed in this report, as well as other terms related to basic hydrogeology and land subsidence is included in Section 5.0.

1.1.1 Subsidence and Fissuring in the Chino Basin

One of the earliest indications of land subsidence in the Chino Basin was the appearance of ground fissures within the City of Chino. These fissures appeared as early as 1973, but an accelerated occurrence of ground fissuring ensued after 1991 and resulted in damage to existing infrastructure. Figures 1-1 and 1-2 show the locations of these fissures. Scientific studies of the area have attributed the fissuring phenomenon to differential land subsidence caused by pumping of the underlying aquifer-system and the consequent drainage and compaction of aquitard sediments (Fife et al., 1976; Kleinfelder, 1993, 1996; Geomatrix, 1994; GEOSCIENCE, 2002).

1.1.2 The Optimum Basin Management Program

In 1999, the *Optimum Basin Management Program Phase I Report* (OBMP Phase I Report) identified the pumping-induced decline of hydraulic heads and subsequent aquifer-system compaction as the most likely cause of the land subsidence and ground fissuring observed in the Chino Basin OBMP Management Zone 1 (MZ-1; Wildermuth Environmental Inc. [WEI], 1999). Program Element 4 of the OBMP Implementation Plan, *Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1*, called for the development and implementation of an interim management plan for MZ-1 that would:

- Minimize subsidence and fissuring in the short-term
- Collect the information necessary to understand the extent, rate, and mechanisms of subsidence and fissuring
- Abate future subsidence and fissuring or reduce it to tolerable levels





The OBMP called for an aquifer-system and land subsidence investigation in the southwestern region of MZ-1 to support the development of a management plan for MZ-1 (items 2 and 3 above). This investigation was titled the *MZ-1 Interim Monitoring Program* (WEI, 2003) and is described below.

The OBMP Phase I Report also identified that land subsidence was occurring in other parts of the basin besides in the City of Chino. Program Element 1 of the OBMP Implementation Plan, *Develop and Implement a Comprehensive Monitoring Program*, called for the initial collection of basin-wide data to characterize land subsidence, including ground-level surveys and remote-sensing (specifically, interferometric synthetic aperture radar or InSAR), and for the development of an ongoing monitoring program based on the analysis of the collected data.

1.1.3 Interim Management Plan and the MZ-1 Summary Report

From 2001 to 2005, the Chino Basin Watermaster (Watermaster) developed, coordinated, and conducted the Interim Management Plan (IMP) under the guidance of the MZ-1 Technical Committee. The MZ-1 Technical Committee was comprised of representatives from all major MZ-1 producers and their technical consultants, including the Agricultural Pool; the Cities of Chino, Chino Hills, Ontario, Pomona, and Upland; the Monte Vista Water District (MVWD); the Golden State Water Company; and the California Institution for Men.

The IMP consisted of three main monitoring elements for use in analyzing subsidence: ground-level surveys, InSAR, and aquifer-system monitoring. The ground-level surveys and InSAR analyses were used to characterize vertical ground motion. Aquifer-system monitoring of hydraulic and mechanical changes within the aquifer-system was used to characterize the causes of aquifer-system deformation.

The monitoring program was implemented in two phases: the Reconnaissance Phase and the Comprehensive Phase. The Reconnaissance Phase consisted of constructing 11 piezometers screened at various depths at Rubin S. Ayala Park (Ayala Park) in the City of Chino and installing pressure-transducers with integrated data loggers (transducers) in nearby pumping and monitoring wells to measure hydraulic head. Following installation of the monitoring network, several months of aquifer-system monitoring and testing were conducted. Testing included aquifer-system stress tests conducted at pumping wells in the area.

The Comprehensive Phase consisted of constructing a dual-borehole pipe extensometer at Ayala Park (Ayala Park Extensometer), near the area of historical fissuring. Following installation of the Ayala Park Extensometer, two aquifer-system stress tests were conducted, followed by passive aquifer-system monitoring.

During implementation of the IMP, Watermaster's Engineer made the data available to the MZ-1 Technical Committee and prepared quarterly progress reports for the MZ-1 Technical Committee, the Watermaster Pools and Board, and the Court.¹ The progress reports contained data and analyses from the IMP and summarized the MZ-1 Technical Committee meetings.

The main conclusions derived from the IMP were:

• Groundwater pumping from the deep and confined aquifer-system in the southwestern region of MZ-1 causes the greatest stress to the aquifer-system. In other words, pumping of the deep aquifer-system causes a hydraulic head decline that is much greater in magnitude

-

¹ San Bernardino County Superior Court, which retains continuing jurisdiction over the Chino Basin Judgment.



- and lateral extent than the hydraulic head decline caused by pumping of the shallow aquifer-system.
- Hydraulic head decline due to pumping from the deep aquifer-system can cause inelastic
 compaction of the aquifer-system sediments, which results in land subsidence. The initiation
 of inelastic compaction within the aquifer-system was identified during the investigation
 when hydraulic heads in the deep aquifer-system at the Ayala Park PA-7 piezometer fell
 below a depth of about 250 feet (ft).
- The state of aquifer-system deformation in southern MZ-1 was essentially elastic during the Reconnaissance Phase of the IMP. Very little inelastic compaction was occurring in this area, which contrasted with the recent past when about 2.2 ft of land subsidence occurred from about 1987 to 1995 and resulted in ground fissuring. Figure 1-1 shows the land surface deformation that was measured in the western Chino Basin and the wells that pumped during that period.
- During the development of the IMP, a previously unknown barrier to groundwater flow was identified, shown in Figures 1-1 and 1-2. The barrier was named the "Riley Barrier" after Francis S. Riley, a retired USGS geologist who first detected the barrier during the IMP. This barrier is located within the deep aquifer-system and is aligned with the historical zone of ground fissuring. Pumping from the deep aquifer-system was limited to the area west of the barrier, and the resulting hydraulic head decline did not propagate eastward across the barrier. Thus, compaction occurred within the deep aquifer-system on the west side of the barrier but not on the east side, which caused concentrated differential subsidence across the barrier and created the potential for ground fissuring.
- The InSAR and ground-level surveys indicated that subsidence in Central MZ-1 had occurred in the past and was continuing to occur. InSAR also suggested that the groundwater barrier (Riley Barrier) extends northward into Central MZ-1, as shown in Figure 1-1. These observations suggested that the conditions that very likely caused ground fissuring near Ayala Park in the 1990s were also present in Central MZ-1. However, there was not enough historical hydraulic head data in this area to confirm this relationship. The IMP recommended that, if subsidence continued or increased in Central MZ-1, the mechanisms causing land subsidence should be studied in more detail.

The IMP provided enough information for Watermaster to develop Guidance Criteria for the Parties that pump from the southwestern region of MZ-1, that if followed, would minimize the potential for subsidence and fissuring in the investigation area. The methods, results, and conclusions of the IMP, including the Guidance Criteria, were described in detail in the MZ-1 Summary Report (WEI, 2006).

The Guidance Criteria were:

 The Managed Wells subject to the Guidance Criteria. Table 1-1 shows the list of Managed Wells with screens completed into the deep aquifer-system that are subject to the Guidance Criteria.



Table 1-1. Managed Wells Screened in the Deep Aquifer and Subject to the Guidance Criteria (a)

Well Name	CBWM ID	Owner	2021 Status	Well Screen Interval(s) ft-bgs
CIM-11A ^(b)	3602461	California Institution for Men	Active ^(c)	174-187; 240-283; 405-465
C-7	3600461	City of China	Abandoned ^(d)	180-780
C-15	600670	City of Chino	Inactive ^(e)	270-400; 626-820
CH-1B	600487		Inactive	440-470; 490-610; 720-900; 940- 1,180
CH-7C	600687	City of Chino Hills	Abandoned	550-950
CH-7D	600498		Destroyed	320-400; 410-450; 490-810; 850-930
CH-15B	600488	,	Inactive	360-440; 480-900
CH-16	600489		Inactive	430-940
CH-17	600499		Active	300-460; 500-680
CH-19	600500		Abandoned	300-460; 460-760; 800-1,000

⁽a) The MZ-1 Subsidence Management Plan identified the Managed Wells that are subject to the Guidance Criteria for the Managed Area that, if followed, would minimize the potential for subsidence and fissuring.

- The spatial extent of the Managed Area. Figures 1-1 and 1-2 show the boundary of the Managed Area where the Guidance Criteria apply. Within the boundaries of the Managed Area, both existing (Table 1-1) and newly constructed wells are subject to being classified as Managed Wells. This area was delineated based on the observed and/or predicted effects of pumping on hydraulic heads and aquifer-system deformation. The Managed Well designations were based on the effects measured at the Ayala Park Extensometer during the IMP or well construction and borehole lithology.
- A piezometric Guidance Level. The Guidance Level is a specified depth to water, as
 measured in feet below the top of casing (ft-btoc) at the Ayala Park PA-7 piezometer. The
 initial Guidance Level was established as 245 ft-btoc. It was defined as the threshold
 hydraulic head level at the onset of inelastic compaction of the aquifer-system as recorded
 by the extensometer minus five feet. The five-foot reduction was meant to be a safety
 factor to ensure that inelastic compaction does not occur. The Guidance Level can be
 updated by Watermaster based on the periodic review of monitoring data.
- Criteria for recommending pumping curtailment. If the hydraulic head level in PA-7 falls below the Guidance Level, Watermaster recommends that the MZ-1 Parties curtail their pumping from designated Managed Wells as required.
- Real-time monitoring/reporting of head levels in PA-7. Watermaster was to provide the MZ-1 Parties with real-time hydraulic head level data from PA-7.

⁽b) The original casing was perforated from 135-148, 174-187, 240-283, 405-465, 484-512, and 518-540 feet below ground surface (ft-bgs). This casing collapsed below 471 ft-bgs in 2011. A liner was installed to 470 ft-bgs with a screen interval from 155 to 470 ft-bgs.

⁽c) Active = Well is currently being used for water supply.

⁽d) Abandoned = Unable to pump the well without major modifications.

⁽e) Inactive = Well can pump groundwater with little or no modifications.





- Reporting of pumping operations at Managed Wells. The MZ-1 Parties were requested to
 maintain and provide Watermaster with accurate records of operations at the Managed
 Wells, including pumping rates and on-off dates and times. The MZ-1 Parties were
 requested to promptly notify Watermaster of all operational changes made to maintain the
 hydraulic head level in PA-7 above the Guidance Level.
- Request for ongoing monitoring at other monitoring wells. Watermaster recommended that the MZ-1 Parties allow it to continue to monitor hydraulic head levels at the Managed Wells.
- Process for adapting the Guidance Criteria. Watermaster and Watermaster's Engineer were
 to evaluate the data collected as part of the MZ-1 Monitoring Program (now called the
 Ground-Level Monitoring Program or GLMP) after each fiscal year and determine if
 modifications, additions, and/or deletions to the Guidance Criteria were necessary. Changes
 to the Guidance Criteria could include additions or deletions to the list of Managed Wells,
 re-delineation of the Managed Area, raising or lowering of the Guidance Level, or additions
 and/or deletions to the Guidance Criteria, including the need to have periods of hydraulic
 head level recovery.
- Acknowledgement of uncertainty. Watermaster cautioned that some subsidence and fissuring could occur in the future, even if the Guidance Criteria were followed.
 Watermaster made no warranties that faithful adherence to the Guidance Criteria would eliminate subsidence or fissuring.

1.1.4 MZ-1 Subsidence Management Plan

The Guidance Criteria formed the basis for the MZ-1 Subsidence Management Plan ([MZ-1 Plan]; WEI, 2007), which was developed by the MZ-1 Technical Committee and approved by the Watermaster Board in October 2007. In November 2007, the Court approved the MZ-1 Plan and ordered its implementation.

To minimize the potential for future subsidence and fissuring in the Managed Area, the MZ-1 Plan codified the Guidance Level and recommended that the MZ-1 Parties manage their groundwater pumping such that the hydraulic head level in PA-7 remains above the Guidance Level.

The MZ-1 Plan called for ongoing monitoring, data analysis, annual reporting, and adjustments to the MZ-1 Plan, as warranted by the data. Implementation of the MZ-1 Plan began in 2008. The MZ-1 Plan called for the continued scope and frequency of monitoring implemented during the IMP within the Managed Area and expanded monitoring of the aquifer-system and land subsidence in other areas of the Chino Basin where the IMP indicated concern for future subsidence and ground fissuring. Figure 1-1 shows the location of these so-called Areas of Subsidence Concern: Central MZ-1, Northwest MZ-1, Northeast Area, and Southeast Area. The expanded monitoring efforts outside the Managed Area are consistent with the requirements of the OBMP Program Element 1 and its implementation plan contained in the Peace Agreement.²

Potential future efforts listed in the MZ-1 Plan included: 1) more intensive monitoring of horizontal strain across the zone of historical ground fissuring to assist in developing management strategies related to fissuring, 2) injection feasibility studies within the Managed Area, 3) additional pumping tests to refine the Guidance Criteria, 4) computer-simulation modeling of groundwater flow and subsidence, and 5) the development of alternative pumping plans for the MZ-1 Parties affected by the MZ-1 Plan. The MZ-1

4

² Source: http://www.cbwm.org/rep legal.htm.



Technical Committee (now called the Ground-Level Monitoring Committee or GLMC) discusses these potential future efforts, and if deemed prudent and necessary, they are recommended to Watermaster for implementation in future fiscal years.

1.1.5 2015 Chino Basin Subsidence Management Plan

The MZ-1 Plan stated that if data from existing monitoring efforts in the Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, Watermaster would revise it to avoid those adverse impacts. The 2014 Annual Report of the GLMC recommended that the MZ-1 Plan be updated to better describe Watermaster's land subsidence efforts and obligations, including areas outside of MZ-1. As such, the update included a name change to the 2015 Chino Basin Subsidence Management Plan ([Subsidence Management Plan]; WEI 2015a) and a recommendation to develop a subsidence management plan for Northwest MZ-1.

Watermaster had been monitoring vertical ground motion in Northwest MZ-1 via InSAR during the development of the MZ-1 Plan. Land subsidence in Northwest MZ-1 was first identified as a concern in 2006 in the MZ-1 Summary Report and again in 2007 in the MZ-1 Plan. Of particular concern, the subsidence across the San Jose Fault in Northwest MZ-1 has occurred in a pattern of concentrated differential subsidence—the same pattern of differential subsidence that occurred in the Managed Area during the time of ground fissuring. Ground fissuring is the main subsidence-related threat to infrastructure. The issue of differential subsidence, and the potential for ground fissuring in Northwest MZ-1, has been discussed at prior GLMC meetings, and the subsidence has been documented and described as a concern in Watermaster's State of the Basin Reports, the annual reports of the GLMC, and in the *Initial Hydrologic Conceptual Model and Monitoring and Testing Program for the Northwest MZ-1 Area* (WEI, 2017). Watermaster increased monitoring efforts in Northwest MZ-1 beginning in Fiscal Year (FY) 2012/13 to include ground elevation surveys and electronic distance measurements (EDM) to monitor ground motion and the potential for fissuring.

In 2015, Watermaster's Engineer developed the *Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area* ([Work Plan]; WEI 2015b). The Work Plan is characterized as an ongoing Watermaster effort and includes a description of a multi-year scope-of-work, a cost estimate, and an implementation schedule. The Work Plan was included in the Subsidence Management Plan as Appendix B. Implementation of the Work Plan began in July 2015.

The updated Subsidence Management Plan also addressed the need for hydraulic head "recovery periods" in the Managed Area by recommending that all deep aquifer-system pumping cease for a continuous six-month period between October 1 and March 31 of each year within the Managed Area. And, the Subsidence Management Plan recommends that every fifth year, all deep aquifer-system pumping cease for a continuous period until the hydraulic head at PA-7 reaches "full recovery" of 90 ft-btoc. These periodic cessations of pumping are intended to allow for sufficient hydraulic head recovery at PA-7 to recognize inelastic compaction, if any, at the Ayala Park Extensometer.

1.1.6 Annual Report of the Ground-Level Monitoring Committee

Pursuant to the Subsidence Management Plan, Watermaster will produce an annual report, containing the results of ongoing monitoring efforts, interpretations of the data, and recommended adjustments to the Subsidence Management Plan, if any. This annual report of the GLMC includes the results and interpretations for the data collected between March 2020 through March 2021, as well as recommendations for Watermaster's GLMP for FY 2021/22.



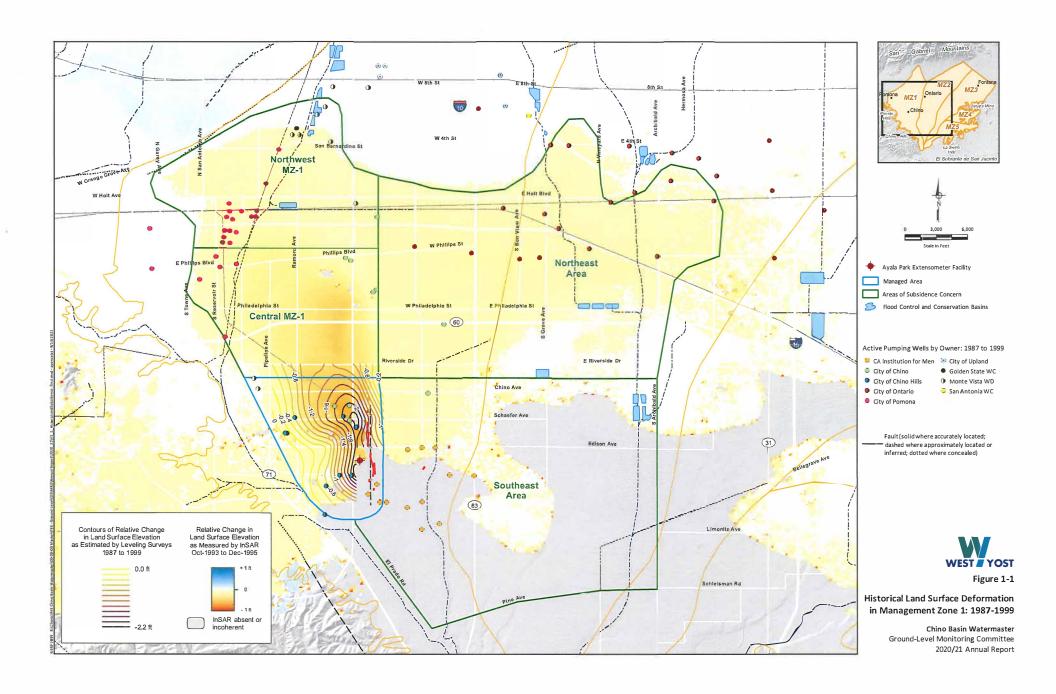


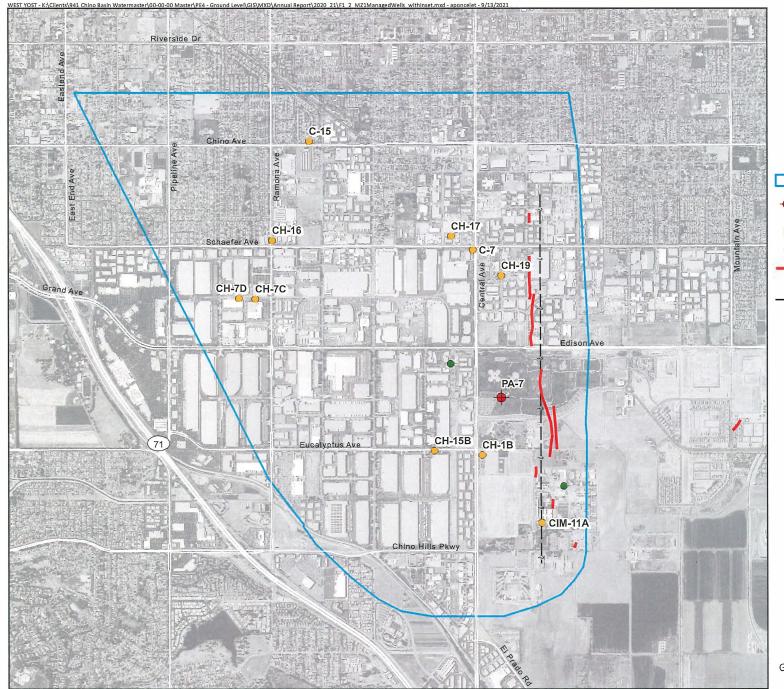


1.2 Report Organization

This report is organized into the following six sections:

- Section 1.0 Introduction. This section provides background information on the history of land subsidence and ground fissuring in Chino Basin, information on the formation of the GLMC and its responsibilities, and a description of the development and implementation of the Subsidence Management Plan, which calls for annual reporting.
- Section 2.0 Ground-Level Monitoring Program. This section describes the monitoring and testing activities performed by Watermaster for its GLMP between March 2020 and March 2021.
- Section 3.0 Results and Interpretations. This section discusses and interprets the monitoring data collected between March 2020 and March 2021, including basin stresses (groundwater pumping and recharge) and responses (changes in hydraulic heads, aquifer-system deformation, and ground motion).
- Section 4.0 Conclusions and Recommendations. This section summarizes the main conclusions derived from the monitoring program between March 2020 and March 2021 and describes recommended activities for the GLMP for FY 2021/22.
- Section 5.0 Glossary. This section is a glossary of the terms and definitions utilized within this report and in discussions at GLMC meetings.
- Section 6.0 References. This section lists the publications and reports cited in this report.







Managed Area

Ayala Park
Extensometer Facility

Managed Well

Other Production Well

Ground Fissures

Groundwater Barrier
——?— (Riley Barrier)
approximate location

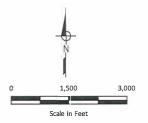




Figure 1-2

MZ-1 Managed Area and the Managed Wells

Chino Basin Watermaster Ground-Level Monitoring Committee 2020/21 Annual Report

Page 111



2.0 GROUND-LEVEL MONITORING PROGRAM

This section describes the activities performed by Watermaster for the GLMP between March 2020 and March 2021.

Figure 2-1 shows the groundwater pumping and recharge facilities in the western Chino Basin that impart pumping and recharge stresses to the aquifer-system. Figure 2-2 shows the locations of the monitoring facilities in Watermaster's ground-level monitoring network, including: wells equipped with a transducer; extensometers that measure vertical aquifer-system deformation; and benchmark monuments that are used to perform ground elevation and EDM surveys to measure vertical and horizontal deformation of the ground surface.

2.1 Ground-Level Monitoring Program

Watermaster conducts its GLMP in the Managed Area and other Areas of Subsidence Concern pursuant to the Subsidence Management Plan and the recommendations of the GLMC. The GLMP activities performed between March 2020 and March 2021 are described below.

2.1.1 Setup and Maintenance of the Monitoring Facilities Network

The Chino Basin extensometer facilities are key monitoring facilities for the GLMP. They require regular and as needed maintenance and calibration to remain in good working order and to ensure the recording of accurate measurements. During the reporting period, the following activities were performed at the Chino Basin extensometer facilities:

- Performed routine monthly maintenance at the Ayala Park, Chino Creek, and Pomona Extensometer (PX) Facilities.
- Purchased and installed a new sump pump for the Piezometer A (PA) vault (Ayala Park Extensometer Facility). The sump pump automatically pumps water from the vault when water (rain or sprinklers) enters and accumulates in the vault.
- Replaced the 12 volt deep-cycle battery at the Piezometer C (PC) vault at the Ayala Park Extensometer Facility to ensure power to the datalogger and continuous data collection.
- Replaced the PA-7 dedicated transducer at the Ayala Park Extensometer Facility.
- Adjusted the deep extensometer rocker arm at the Ayala Park Extensometer Facility.
- At the PX Facility, all devices used to monitor piezometric (transducers) and aquifer-system deformation (linear potentiometers and vibrating wireline transducers) and data loggers were installed between April and September 2020. Data collection from the PX Facility commenced in December 2020.
- At the PX Facility, dead-band testing at each cable extensometer was conducted on July 1, 2020 to quantify the frictional properties of the extensometers, characterize performance and accuracy, and to refine the ideal counter-weight balance (Riley, 1986).
- Installed a new 12-volt deep-cycle batteries at the PX Facility to ensure continuous power to the dataloggers and continuous data collection.



2.1.2 Monitoring Activities

Changes in hydraulic heads are caused by the stresses of groundwater pumping and recharge. Changes in hydraulic head is the mechanism behind aquifer-system deformation, which in turn causes vertical and horizontal ground motion. Because of this cause-and-effect relationship, the Watermaster monitors groundwater pumping, recharge, hydraulic heads, aquifer-system deformation, and vertical and horizontal ground motion across the western portion of the Chino Basin. The following sub-sections (2.1.2.1 through 2.1.2.4) describe Watermaster's monitoring activities between March 2020 and March 2021, as called for by the Subsidence Management Plan and in accordance with the recommendations of the GLMC.

2.1.2.1 Monitoring of Pumping, Recharge, and Piezometric Levels

The Watermaster collects and compiles groundwater pumping data on a quarterly basis from well owners in the Managed Area and Areas of Subsidence Concern. The well locations that pumped groundwater between March 2020 and March 2021 are shown in Figure 2-1.

The Watermaster collects data from the Inland Empire Utilities Agency on the volumes of imported water, stormwater, and recycled water that are artificially recharged at spreading basins, and the volumes of recycled water for direct use within the Chino Basin.

Hydraulic heads were measured and recorded once every 15 minutes using transducers maintained by the Watermaster at 77 wells across the Managed Area and Areas of Subsidence Concern. Figure 2-2 shows the locations of these wells. Also, Watermaster staff and well owners typically measure hydraulic heads at other wells in western Chino Basin monthly.

2.1.2.2 Monitoring Vertical Aquifer-System Deformation

The Watermaster measured and recorded the vertical component of aquifer-system deformation at the Ayala Park and the Chino Creek Extensometer Facilities once every 15 minutes.

2.1.2.3 Monitoring Vertical Ground Motion

The Watermaster monitored vertical ground motion via ground-level surveys using InSAR and traditional leveling techniques.

For InSAR, the Watermaster retained General Atomics (formerly Neva Ridge Technologies, Inc.) to acquire and post-process land-surface displacement data from the TerraSAR-X satellite operated by the German Aerospace Center. The width of the TerraSAR-X data frame covers the western half of the Chino Basin only.³ Six synthetic aperture radar (SAR) scenes were collected between March 2020 and March 2021. The

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³ All historical InSAR data that were collected and analyzed by Watermaster from 1993 to 2010 indicate that very little vertical ground motion occurred in the eastern half of the Chino Basin. In 2012, the GLMC decided to acquire and analyze InSAR only in the western portion of the Chino Basin as a cost-saving strategy.



scenes were used to create 10 interferograms⁴ to estimate short- and long-term vertical ground motion⁵ over the following periods (Table 2-1):

Table 2-1. 2020/21 Interferograms Short- and Long-Term Time-Periods								
2020/21 Interferograms	Long-Term Interferograms							
March 2020 to June 2020	March 2011 to March 2021							
June 2020 to August 2020	March 2020 to March 2021							
August 2020 to October 2020	March 2020 August 2020							
October 2020 to December 2020	March 2020 October 2020							
December 2020 to March 2021	March 2020 December 2020							

This year's InSAR results were again generated using General Atomics new processing method to allow for estimates of vertical ground motion in areas that were previously incoherent. These areas include portions of the Southeast Area and the southeastern portions of the Northeast Area. A brief description of the processing techniques and the impact the processing techniques have on estimates of vertical ground motion across the western Chino Basin between 2011 and 2021 has been provided by General Atomics and is summarized below (Sean Yarborough, personal communication, September 3, 2020):

- 1. Tight filters⁶ were applied to portions of the interferograms with higher overall coherence to preserve the shape and depth of smaller ground motion signals. Broad filters were used to retain and enhance ground motion trends in less coherent interferograms.
- 2. Intermittent coherence within agricultural and/or wildland (or open space) areas often result in a widespread loss of ground motion estimates, despite visible trends. Intermittently coherent points were interpolated in each interferogram.

The primary areas where the filters were applied (see No. 1 above) were agriculture and/or open-space areas in portions of the Southeast Area and the southeastern portions of the Northeast Area. The trade-off with using tight or broad filter sizes is that tight filters preserve the fine spatial detail of the ground motion in an area but creates noise in low coherence areas; and broad filters preserve overall ground motion trends but obscure the fine spatial details in the shape and displacement of the ground motion. Prior processing methods heavily favored one or the other approach. This year's InSAR delivery is an evolution,

.

⁴ Two or more SAR scenes are used to generate grids of surface deformation (interferograms) over a given period. Typically, surfaces within a pixel will move up or down together as would be expected in recovery/subsidence scenarios. However, surfaces within the area of a pixel can move randomly and cause decorrelation in the radar signal. Examples of random motion within a pixel area are vegetation growing, urbanization, erosion of the ground surface, harvesting crops, plowing fields, and others. The magnitude of this decorrelation in the signal is measured mathematically and called incoherence. Based on the magnitude of decorrelation in an area, pixels will be rejected as "incoherent."

⁵ Several factors can influence the accuracy of ground motion results as estimated by InSAR, such as satellite orbital uncertainties and atmospheric interference. On average, accuracy of ground motion results as estimated by InSAR are +/- 0.02 ft.

⁶ Filters are used to smooth the ground motion measurements by reducing the standard deviation of the pixels in a given area. Filters can differ in overall size (areal extent), smoothing shape (flat, triangle, Gaussian, etc.) and strength (enforcement).



selecting an appropriate filter based on the coherence of specific agricultural and/or open-space areas in each frame.

The intermittent coherence described in No. 2 above appeared in certain areas in western Chino Basin with coherent points that had a clear spatial trend and a small handful of randomly incoherent points. With previous processing methods, once a point becomes incoherent and if no further spatial processing is performed, ground motion estimates at that location are lost moving forward in time, even if the point becomes coherent in the next interferogram and remains coherent indefinitely thereafter. A region with widespread intermittent coherence becomes completely masked over time as each point experiences a brief period of incoherence, even if its neighbors continue showing a clear trend. With the new processing techniques, these neighboring points are used to interpolate across intermittently incoherent points in order to preserve the overall ground motion estimate through time.

For the ground level surveys, Watermaster retained Guida Surveying, Inc. to conduct traditional leveling surveys at selected benchmark monuments in the western part of the Chino Basin. Table 2-2 below shows the number of benchmark monuments that were surveyed within each ground-level survey area. The locations of the ground-level survey areas are shown in Figure 2-2.

Table 2-2. Benchmark Monuments Surveyed in Ground-Level Survey Areas

Ground-Level Survey Area	Date of Most Recent Survey	Number of Benchmarks Surveyed
Managed Area ^(a)	January 2018	22
Central Area ^a	January 2018	14
Northwest Area	May 2021	25
San Jose Fault Zone Area	May 2021	10
Southeast Area ^a	January 2018	77
Northeast Area	April 2020	68

⁽a) The entire benchmark monument survey network for the ground-level survey area was not surveyed in 2021 based on the GLMC scope and budget recommendations for FY 2020/21.

2.1.2.4 Monitoring of Horizontal Ground Motion

Watermaster measures horizontal ground motion between benchmarks across areas that are susceptible to ground fissuring via EDMs. The EDMs were performed between the benchmarks located within the San Jose Fault Zone Area (Figure 2-2). The number of benchmarks surveyed are shown in Table 2-3.

Table 2-3	Number of	Benchmark	Surveyed
I able 2-3.	INGILIDE OF	Deliciliiaik	Juiveyeu

Ground-Level Survey Area	Date of Most Recent Survey	Number of Benchmarks Surveyed			
Fissure Zone Area ^(a)	February 2018	66			
San Jose Fault Zone Area	May 2021	9			

a) EDMs across the Fissure Zone Area were not conducted in 2021 based on GLMC scope and budget recommendations for FY 2020/21.



2.2 Land-Subsidence Investigations

The Watermaster performs land subsidence investigations pursuant to the Subsidence Management Plan, the recommendations of the GLMC for the GLMP, and the annually approved Watermaster budget. Investigations can include aquifer-stress tests (e.g. pumping and injection) and the simultaneous monitoring of hydraulic heads, aquifer-system deformation, and deformation of the ground surface. The goals of these investigations are to refine the Guidance Criteria and assist in the development of subsidence management plans to minimize or abate land subsidence and maximize the prudent extraction of groundwater.

This section describes the land subsidence investigations conducted between March 2020 and March 2021 that are called for in the Subsidence Management Plan.

2.2.1 Long-Term Pumping Test in the Managed Area

The GLMC developed the Long-Term Pumping Test in the Managed Area in response to the directives in the Subsidence Management Plan. The goal of the Long-Term Pumping Test is to develop a strategy for the prudent extraction of groundwater from the Managed Area. In this case, "prudent" is defined as extracting the maximum volume of groundwater possible without causing damage to the ground surface or the area's infrastructure. As of February 2021, the City of Chino Hills (M. Wiley, personal communication, February 1, 2021) reported the Long-Term Pumping test will not be completed in FY 2020/21 due to mechanical issues at CH-15B and 1,2,3-trichloropropane (TCP) and per- and polyfluoroalkyl substances (PFAS) contamination in CH-15B and CH-17. Injection at CH-16 will also likely not occur in FY 2020/21.

2.2.2 Analysis of EDM Measurements Across the Fissure Zone and San Jose Fault Zone

The Subsidence Management Plan calls for the Watermaster to monitor horizontal ground motion across areas that are susceptible to ground fissuring. Historically, this monitoring has occurred via EDMs and with the Daniels Horizontal Extensometer (DHX). The DHX was decommissioned and removed in 2015 because the site was developed. The GLMC annually recommends the scope and frequency of EDM surveys. The 2016 Annual Report of the GLMC included an in-depth review of horizontal strain that had occurred over time and measured from EDM data across the Fissure Zone to assess if the EDM data can be used in-lieu of the horizontal extensometer data collected at the DHX. Based on the review of EDM data between closely spaced benchmarks in the Fissure Zone Area, the EDM method appears to be a suitable monitoring technique to detect the occurrence of tensile strain within shallow soils and the potential threat of ground fissuring. Additionally, the 2016 Annual Report recommended that if permanent subsidence is absent in the Managed Area, the GLMC should consider performing EDM surveys across the Fissure Zone at a frequency greater than annual and performing EDM surveys in coordination with the Long-Term Pumping Test in the Managed Area. In 2021, the EDM survey across the Fissure Zone in the Managed Area was not conducted based on the GLMC scope and budget recommendations for FY 2020/21.

Like the benchmark network in the Fissure Zone in the Managed Area, a series of closely spaced benchmarks were installed across the San Jose Fault Zone in Northwest MZ-1. These benchmarks were installed along San Bernardino and San Antonio Avenues to measure horizontal strain across the fault zone. EDM surveys have been performed in this area each year since 2014.



2.2.3 Subsidence Management Plan for Northwest MZ-1

In 2015, the GLMC developed the final Work Plan to develop a subsidence-management plan for Northwest MZ-1, which describes a multi-year effort with cost estimates to execute the Work Plan. The Work Plan was included in the Subsidence Management Plan as Appendix B.⁷ The background and objectives of the Work Plan are described in Section 1.1.5. The Watermaster began implementation of the Work Plan in July 2015. The Work Plan has evolved over time as new data and information has been collected and evaluated by the GLMC. The following describes the Work Plan tasks and status of each task:

Task 1. Describe Initial Hydrogeologic Conceptual Model and Monitoring and Testing Program — A final report was submitted to the GLMC and Watermaster in December 2017 that summarized the current state of knowledge of the hydrogeology of Northwest MZ-1, the data gaps needed to be filled to fully describe the occurrence and mechanisms of aquifer-system deformation and the pre-consolidation stress, and a strategy to fill the data gaps.

Task 2. Implement the Initial Monitoring and Testing Program – The Watermaster's Engineer worked with the Watermaster, MVWD, City of Pomona, and SCADA Integrations, Inc. to identify and equip a set of wells with supervisory control and data acquisition (SCADA) monitoring capabilities and/or transducers. Through several field visits and technical meetings with the well owners, a protocol was developed to install monitoring equipment and collect pumping and piezometric data. For the City of Pomona, nine wells were equipped with transducers. For MVWD, seven wells were equipped with transducers, two wells with sonar units, and two wells with air-line units. Hydraulic heads are recorded once every 15 minutes. Nine of the 11 MVWD wells were connected to the MVWD's existing SCADA system. The hydraulic head data from these wells are currently being collected and analyzed as part of the Northwest MZ-1 monitoring and testing program.

Task 3. Develop and Evaluate the Baseline Management Alternative (BMA) and Task 4. Develop and Evaluate the Initial Subsidence-Management Alternative — A final technical memorandum was submitted to the GLMC and Watermaster in December 2017 that described the construction, calibration, and use of a numerical one-dimensional aquifer-system compaction model at MVWD-28. The objective of this memo was also to explore the future occurrence of subsidence in Northwest MZ-1 under various basin-operation scenarios of groundwater pumping and artificial recharge and to identify potential subsidence mitigation strategies.

Task 5. Design and Install the Pomona Extensometer Facility – The Watermaster's Engineer completed construction of two dual-nested piezometers located in Montvue Park, Pomona, CA in August 2019. Each PX piezometer was equipped with transducers and cable extensometers in June and July 2020 and has been collecting preliminary depth-specific hydraulic head and aquifer-system deformation since December 2020.

Task 6. Design and Conduct Aquifer-System Stress Tests (if necessary) – The objective of this task is to perform controlled aquifer-system stress tests at pumping wells in Northwest MZ-1 and to monitor the depth-specific hydraulic head and aquifer-system deformation response at PX. This information, along with hydraulic head data collected as part of Task 2 will be used to help identify the subsidence mechanisms and the pre-consolidation stress(es) in Northwest MZ-1. The Watermaster's Engineer has not yet identified specific questions that need to be answered with the controlled aquifer-system stress tests.

⁷ Source: http://www.cbwm.org/rep engineering.htm



It is recommended a period of "passive" data collection and assessment of the data over time to determine if a controlled aquifer-system stress test is recommended in the future.

Task 7. Update the Hydrogeologic Conceptual Model — The objective of this task is to update the hydrogeologic conceptual model of Northwest MZ-1 based on new lithologic information from PX and an improved understanding of hydraulic head data across Northwest MZ-1. A numerical one-dimensional aquifer-system compaction model at PX was constructed and calibrated to refine the hydraulic and mechanical property estimates of the aquifer-system and the pre-consolidation stress. This task was completed in FY 2020/21.

Task 8. Document the One-Dimensional Compaction Models at the MVWD-28 and PX Locations — This task will help answer the question: What are the pre-consolidation stresses within the compacting intervals of the aquifer-system? The pre-consolidation stress is a piezometric "threshold." When piezometric levels are above the threshold, subsidence is abated. When piezometric levels are below the threshold, subsidence is caused. The determination of pre-consolidation stress by aquifer-system layer can provide "guidance" for the Chino Basin parties to manage pumping and recharge to avoid the future occurrence of land subsidence in Northwest MZ-1.

The model calibration results for two 1D compaction models located within the area of maximum subsidence in Northwest MZ-1 (at the MVWD-28 and PX locations) will be used, in combination with other monitoring data, to estimate the current (2018) pre-consolidation stresses by aquifer-system layer for Northwest MZ-1. The 1D compaction models, calibration results, and preliminary estimates of the pre-consolidation stress by aquifer-system layer will be presented by the Watermaster Engineer at a GLMC meeting. The Watermaster Engineer will accept verbal feedback and written comments from the GLMC, and then prepare a draft technical memorandum to document the 1D compaction models, the calibration results, and the preliminary estimates of the pre-consolidation stress. Another GLMC meeting will be held to review the draft technical memorandum. The GLMC will submit written comments and suggested revisions to the Watermaster Engineer. A final technical memorandum will be prepared that incorporates the feedback and comments from the GLMC. This task is anticipated to be completed in FY 2021/22.

Task 9. Refine and Evaluate Subsidence-Management Alternatives – This task will help answer the question: What are potential methods to manage the land subsidence in Northwest MZ-1?

The 1D compaction models at MVWD-28 and PX will be used to characterize the mechanical response of the aquifer-system to a BMA. A draft technical memorandum will be prepared that summarizes the evaluation of the BMA, particularly, the ability of the BMA to raise and hold piezometric levels above the estimated pre-consolidation stresses. The draft technical memorandum may also include a recommendation for the Initial Subsidence Management Alternative (ISMA) if the BMA is not successful at raising and holding hydraulic heads above the estimated pre-consolidation stresses. The assumptions of the ISMA, including the groundwater production and replenishment plans of the Chino Basin parties, will be described, and must be agreed upon by the GLMC. A GLMC meeting will be held to review the model results and evaluation of the BMA, review the recommended ISMA, and to receive feedback on the draft technical memorandum.

After the recommended ISMA is agreed upon by the GLMC, the Watermaster's MODFLOW model will be updated to run the ISMA and will be used to estimate the hydraulic head response to the ISMA at the MVWD-28 and PX locations. The projected hydraulic heads generated from the MODFLOW model using the ISMA will be extracted from the MODFLOW model results at the MVWD-28 and PX locations and will be used



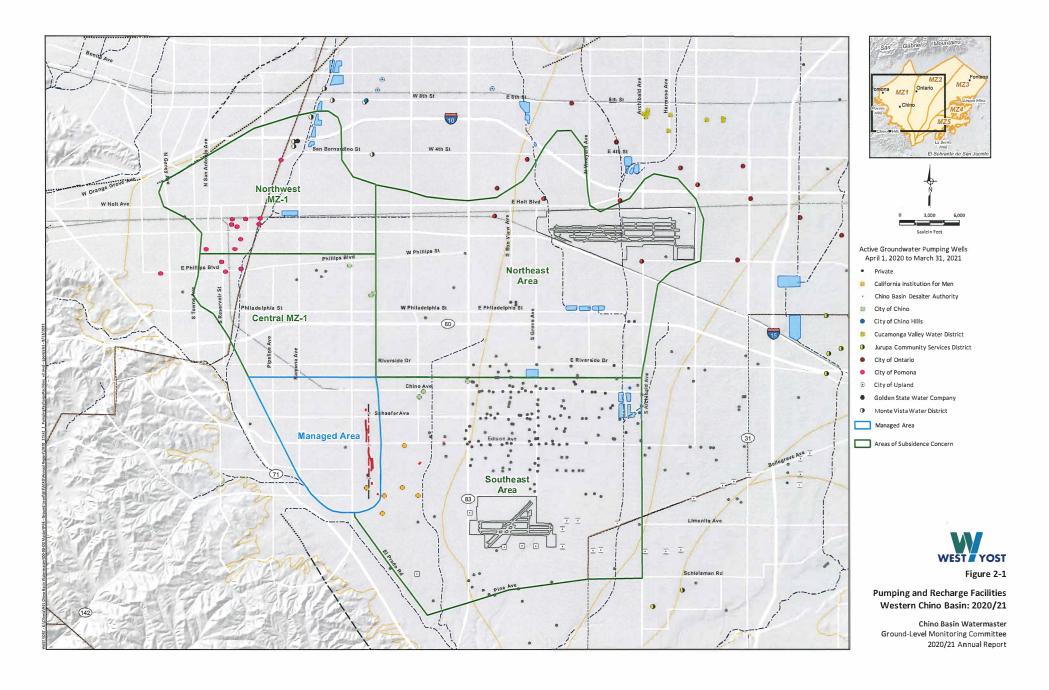
as input files for both 1D compaction models. The 1D compaction models will then be run to characterize the mechanical response of the aquifer-system to the ISMA at both the MVWD-28 and PX locations.

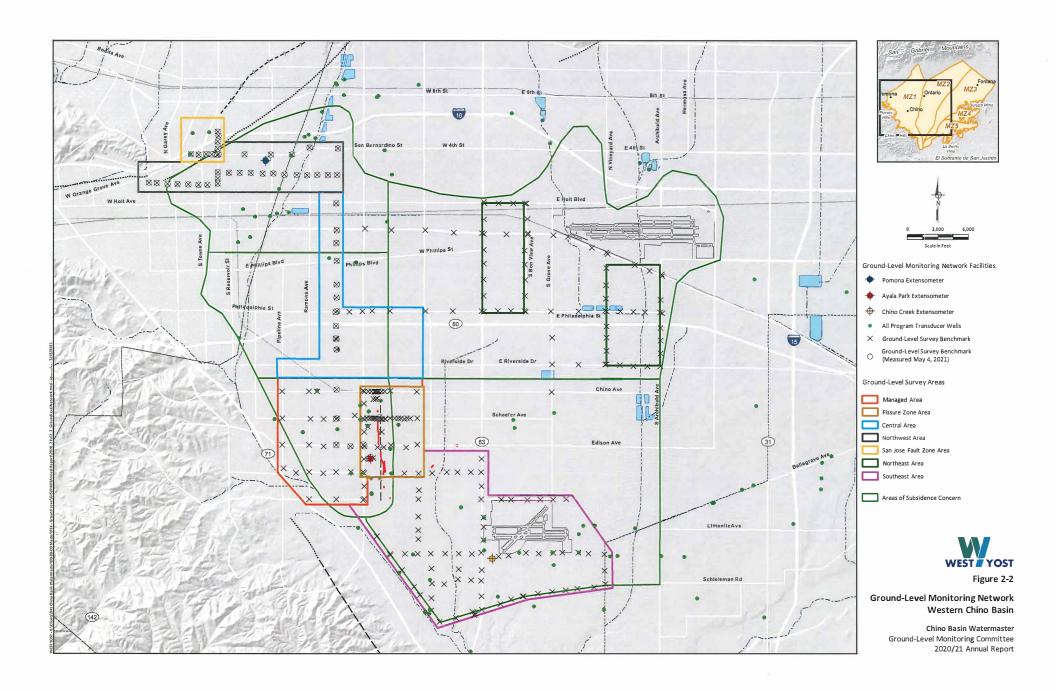
A draft technical memorandum will be prepared that summarizes the evaluation of the ISMA, particularly, the ability of the ISMA to raise and hold piezometric levels above the estimated pre-consolidation stresses. The draft technical memorandum may also include a recommendation for a second Subsidence-Management Alternative (SMA-2), if the ISMA is not successful at raising and holding hydraulic heads above the estimated pre-consolidation stresses. The assumptions of the SMA-2, including the groundwater production and replenishment plans of the Chino Basin parties, will be described, and must be agreed upon by the GLMC. A GLMC meeting will be held to review the model results and evaluation of the ISMA, review the recommended SMA-2, and to receive feedback on the technical memorandum. This task is anticipated to be completed in FY 2021/22.

If necessary and recommended by the GLMC, additional subsidence management alternative scenarios may be run in FY 2022/23. It is currently envisioned by the GLMC that, based on the results of the 1D compaction model results, the GLMC may recommend an update to the Watermaster's Subsidence Management Plan in FY 2022/23 to minimize or abate the future occurrence of land subsidence in Northwest MZ-1.

Task 10. Update the Chino Basin Subsidence Management Plan — The objective of this task is to incorporate the preferred subsidence-management alternative for Northwest MZ-1 into the Chino Basin Subsidence Management Plan. An implementation plan will be prepared as part of this effort. The implementation plan will require review and approval by the GLMC and the Watermaster Pools, Advisory Committee, and Board. The Watermaster will apprise the Court of revisions to the plan as part of its OBMP implementation status reporting. The updated Chino Basin Subsidence Management Plan is anticipated to be completed by the end of FY 2023/24.

2-8







3.0 RESULTS AND INTERPRETATIONS

This section describes the results and interpretations derived from the GLMP for the Managed Area and Areas of Subsidence Concern in the Chino Basin for the March 2020 and March 2021 reporting period. Figures 3-1a and 3-1b display vertical ground motion as measured by InSAR across the western portion of the Chino Basin between the periods of March 2011 and March 2021 and between March 2020 and March 2021, respectively. The maps also show the locations and magnitude of pumping and artificial recharge—the stresses to the aquifer-system that can cause ground motion. The data shown in these and subsequent figures are described and interpreted in this section.

3.1 Managed Area

The Managed Area is the primary focus of the Subsidence Management Plan. The discussion below describes the results and interpretations of the monitoring program in the Managed Area and, where appropriate, relative to the Guidance Criteria in the Subsidence Management Plan.

3.1.1 History of Stress and Strain in the Aquifer-System

Figure 3-2 illustrates the long-term history of groundwater pumping, hydraulic heads, and vertical ground motion in the Managed Area. Also shown is the volume of the direct use of recycled water in the Managed Area, which is an alternative water supply that can result in decreased groundwater pumping from the area. Recycled water is often used for irrigation purposes and can contribute to groundwater recharge to the shallow aquifer-system as well. General observations and interpretations from this chart are:

- Pumping from the shallow aquifer-system between the 1930s and about 1977 caused hydraulic heads to decline by about 150 ft. From 1978 to 1990, hydraulic heads recovered by about 50 ft.
- Pumping from the confined, deep aquifer-system during the 1990s caused the hydraulic heads to a decline, coinciding with high rates of land subsidence. About 2.5 ft of subsidence occurred from 1987 to 1999, and ground fissures opened within the City of Chino in the early 1990s.
- Since the early 2000s, groundwater pumping decreased, hydraulic heads in the deep aquifer-system recovered, and the rate of land subsidence declined significantly across the Managed Area.
- The direct use of recycled water, which began in 1997, may have contributed to decreased groundwater pumping from the area, which in turn, may have contributed to the observed increases in hydraulic heads in the Managed Area.
- Since 2005, hydraulic heads at PA-7 have not declined below the Guidance Level, and very little inelastic compaction was recorded in the Managed Area. These observations demonstrate the effectiveness of the Subsidence Management Plan in the management of land subsidence in the Managed Area.

3.1.2 Recent Stress and Strain in the Aquifer-System

This section discusses the last nine years of groundwater pumping, changes in hydraulic heads, and vertical ground motion in the Managed Area under the Subsidence Management Plan.



3.1.2.1 Groundwater Pumping and Hydraulic Heads

Table 3-1 summarizes groundwater pumping by well within the Managed Area for fiscal year 2012 through March 2021. A total of about 25 acre-feet (af) of groundwater pumping occurred in the Managed Area from July 1, 2020 to March 31, 2021—88 percent of the groundwater pumping was from wells screened in the shallow aquifer-system. Groundwater pumping in the Managed Area has declined from about 5,680 af in fiscal year 2012 to almost negligible volumes in 2021.

Figure 3-3 displays the hydraulic stresses and mechanical strains that have occurred within the shallow and deep aquifer-systems in the Managed Area over the period January 2011 through March 2021. The figure includes three time-series charts: quarterly groundwater pumping (hydraulic stress to the aquifer-systems); the resultant head changes (hydraulic responses to pumping); and aquifer-system deformation as measured at the Ayala Park Extensometers (mechanical strain that occurred within the aquifer-system sediments in response to the head changes). The following are observations and interpretations regarding pumping and head changes:

- Historically, there has been a seasonal pattern of pumping in the Managed Area increased pumping during the spring to fall and decreased pumping during the winter.
- Hydraulic heads respond differently to the pumping stresses in the shallow and deep
 aquifer-systems. Pumping from the deep confined aquifer-system causes a hydraulic head
 decline that is much greater in magnitude than the hydraulic head decline caused by
 pumping from the shallow aquifer-system despite that more groundwater pumping occurs
 from the shallow aquifer-system.
- The hydraulic head at PA-7 (deep aquifer-system) has fluctuated from a low of approximately 190 ft-btoc in August 2013 to a high of about 57 ft-btoc in January 2021 and has not declined below the Guidance Level of 245 ft-btoc.
- The recovery of the hydraulic head in the deep aquifer-system to above 90 ft-btoc in February 2019 and November 2019 represented "full recovery" of hydraulic head at PA-7 as defined in the Subsidence Management Plan, and the hydraulic head at PA-7 has remained above 90 ft-btoc.
- Since the first instance of full recovery in 2012, the hydraulic head at PA-7 recovered to 90 ft-btoc or greater in 2016, 2018 and 2019, which complies with the recommendation in the Subsidence Management Plan for full recovery within the deep aquifer-system at least once every five years.⁸
- As a result of very little to almost zero pumping from the shallow and deep aquifer-systems since April 2018, hydraulic heads at PA-10 and PA-7 have increased to their highest levels since implementation of the GLMP in 2003: about 56 ft-btoc in PA-10 (March 2021) and about 57 ft-btoc in PA-7 (March 2021).

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⁸ Page 2-2 in the Subsidence Management Plan, Section 2.1.1.3—Recovery Periods: "Every fifth year, Watermaster recommends that all deep aquifer-system pumping cease for a continuous period until water-level recovery reaches 90 ft-btoc at PA-7. The cessation of pumping is intended to allow for sufficient water level recovery at PA-7 to recognize inelastic compaction, if any, at the Ayala Park Extensometer and at other locations where groundwater-level and ground-level data are being collected."

Table 3-1. Groundwater Pumping in the Managed Area for Fiscal Year 2012 Through 2021, acre-ft

Well Name	Aquifer Layer	Aquifer Fiscal Year						Fiscal Year 2021							
Well Name		2012	2013	2014	2015	2016	2017	2018	2019	2020	Qtr 1	Qtr 2	Qtr 3	Qtr 4 ^(a)	By Layer
C-4		524	0	0	0	0	0	0	0	0	0	0	0	:#1	
C-6] [1049	594	0	0	0	0	0	0	0	0	0	0	47	
CH-1A		1137	909	738	861	649	637	369	0	0	0	0	0		
CH-7A	Shallow	530	380	170	286	156	66	0	0	0	0	0	0	*	22.2
CH-7B		712	264	200	616	261	232	350	0	0	0	0	0	150	
CIM-1		724	1,109	1,127	878	911	908	586	0	0	0	0	0	124	
XRef 8730 ^(b)		3	5	5	4	3	35	29	29	29	7.4	7.4	7.4	-	
	Subtotals	4,679	3,260	2,240	2,644	1,980	1,879	1,334	29	29	7.4	7.4	7.4	123	22.2
CH-17		758	1,444	937	1,142	567	624	571	0	0	0	0	0	-	
CH-15B	Deep ^(c)	0	28	105	0	0	0	0	0	0	0	0	0		3
CIM-11A		243	239	195	92	94	222	0	0	0	1	1	1.2		
	Subtotals	1,001	1,711	1,237	1,234	662	846	571	0	0	1	1	1		3
	Totals	5,680	4,971	3,477	3,878	2,642	2,725	1,905	29	29	8.4	8.1	8.6		25.2

[&]quot;C" = City of Chino

[&]quot;CH" = City of Chino Hills

[&]quot;CIM" = California Institution for Men

[&]quot;XRef" = Private

⁽a) Data only available through March 2021.

⁽b) Well screen interval is unknown but assumed to be shallow based on typical well construction for other private wells in the vicinity.

⁽c) These wells have screen intervals that extend into the shallow-aquifer system, so a portion of the production comes from the shallow aquifer-system.





3.1.2.2 Aquifer-System Deformation

Figure 3-3 also includes a time-series chart of vertical deformation of the aquifer-system as measured at the Ayala Park Extensometers for the period January 2011 through March 2021. The following are observations and interpretations regarding aquifer-system deformation in response to the pumping and head changes:

- There has been seasonal compression and expansion of the aquifer-system in response to the seasonal decline and recovery of hydraulic heads, which indicates that the vertical deformation of the aquifer-system was mainly elastic during this period.
- However, between April 6, 2011 and June 27, 2016 (dates of full recovery at PA-7 to 90 ft-btoc), the Ayala Park Deep Extensometer recorded about 0.029 ft of aquifer-system compression, which indicates that this compression is permanent compaction that occurred within the depth interval of 30-1,400 ft-bgs.⁹
- From June 27, 2016 to February 1, 2019 (dates of full recovery at PA-7), the Deep Extensometer recorded an extended cycle of aquifer-system compression and expansion in response to the extended decline and recovery cycle of hydraulic heads at PA-7. By February 1, 2019, the Deep Extensometer recorded a slight amount of expansion, indicating that the vertical deformation of the deep aquifer-system was mainly elastic during this period.
- Since February 2019, the Deep Extensometer has continued to record purely elastic aquifer-system deformation a total of about 0.056 ft of aquifer-system expansion was recorded at the Deep Extensometer between February 1, 2019 and March 31, 2021.

Figure 3-4 is a stress-strain diagram of hydraulic heads measured at PA-7 (stress) versus vertical deformation of the aquifer-system sediments as measured at the Deep Extensometer (strain). This diagram provides additional information on the nature of the aquifer-system deformation (i.e., elastic versus inelastic deformation). The hysteresis loops on this figure represent cycles of hydraulic head decline-recovery and the resultant compression-expansion of the aquifer-system sediments. The diagram can be interpreted to understand the timing and magnitude of the occurrence of compaction within the depth interval of the aquifer-system that is penetrated by the Deep Extensometer. Hydraulic head decline is shown as increasing from bottom to top on the y-axis, and aquifer-system compression is shown as increasing from left to right on the x-axis. The following are observations and interpretations regarding aquifer-system deformation in response to the head changes:

- From May 2006 to May 2018, the hysteresis loops progressively shifted to the right on this chart, indicating that about 0.065 ft of inelastic compaction occurred during this time-period. However, the rate of inelastic compaction appeared to gradually decline over this 12-year period.
- From May 2018 to February 2019, the hydraulic heads at PA-7 fluctuated between 70-120 ft-btoc. During this period, the hysteresis loops started to overlap one another and then shifted to the left, indicating that the vertical deformation of the aquifer-system was mainly elastic expansion of the aquifer-system sediments.

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⁹ The analysis of full recovery and inelastic compaction at Ayala Park was included in the 2016 Annual Report (WEI, 2016).



 Since February 2019, the hydraulic heads at PA-7 have remained at or above 90 ft-btoc and by March 2021 increased to their highest levels since 2003. During this period, the hysteresis loops shifted to the left, indicating that the vertical deformation of the aquifersystem was purely elastic expansion of the aquifer-system sediments.

3.1.2.3 Vertical Ground Motion

Vertical ground motion is measured across the Managed Area via InSAR, traditional ground-level surveys, and the Deep Extensometer. For FY 2020/21, the benchmark monument network in the Managed Area was not surveyed per the GLMC's scope and budget recommendations. Figures 3-1a and 3-1b illustrate vertical ground motion¹⁰ as estimated by InSAR for the period from March 2011 to March 2021 and from March 2020 to March 2021, respectively.

Where coherent, the InSAR estimates of vertical ground motion from 2011 to 2021 shown in Figure 3-1a range from about zero ft to -0.04 ft across the Managed Area. The greatest downward ground motion occurred in the northern portions of the Managed Area.

The InSAR estimates of vertical ground motion from 2020 to 2021 indicate very little vertical ground motion occurred across most of the Managed Area.

As described above, Figure 3-1a shows that maximum downward ground motion during 2011-2021 occurred in the northern portion of the Managed Area. The City of Chino Well 15 (C-15) is in the northern portion of the Managed Area, is screened across both the shallow and deep aquifers, and has been equipped with a transducer that measures and records hydraulic heads once every 15 minutes. These data provide information on the nature of the aquifer-system deformation that occurred in this area (i.e. elastic versus inelastic deformation). Figure 3-5 is a time-series chart that compares the hydraulic heads at C-15 to vertical ground motion as measured by InSAR at the same location between 2005 and 2021. The main observations from this chart are:

- The InSAR record at C-15 is measuring seasonal elastic vertical ground motion which is
 caused by seasonal fluctuations in hydraulic head and the resultant seasonal elastic
 deformation in the aquifer-system(s). The seasonal fluctuations of hydraulic head at C-15
 are coincident with the seasonal fluctuations of vertical ground motion measured by InSAR
 at the same location.
- 2. From 2007 to 2016, InSAR indicates a long-term trend of downward ground motion at C-15. However, hydraulic heads at C-15 during this same time-period increased, indicating that about 0.19 ft of subsidence was caused by inelastic compaction of the aquifer-system. The inelastic compaction that occurred during this period of increasing hydraulic head most likely represents the delayed drainage and compaction of aquitards due to historical head declines.
- 3. Since 2016, the long-term subsidence trend appears to have stopped, indicating that inelastic compaction of the aquitards has also stopped. This observation is supported by the Deep Extensometer record, which indicates mostly elastic deformation of the aquifer-system since 2016 (see Figure 3-4). The recent cessation of subsidence observed at C-15 is likely a result of increasing hydraulic heads in the aquifers, which has led to

¹⁰ Upward vertical ground motion is indicated by positive values; downward vertical ground motion is indicated by negative values.



equilibration with hydraulic heads in the aquitards and the cessation of aquitard drainage and compaction. These monitoring data may be providing information on hydraulic head "thresholds" that could be used as management criteria to protect against the future occurrence of land subsidence. At C-15, when groundwater elevations remain above 580 ft-above mean sea level (amsl), InSAR indicates that no permanent land subsidence occurs.

3.2 Southeast Area

Vertical ground motion is measured across the Southeast Area via InSAR, traditional ground-level surveys, and the Chino Creek Extensometer Facility (CCX). The InSAR results (Figures 3-1a and 3-1b) are somewhat incoherent across much of this area because the overlying agricultural land uses are not hard, consistent reflectors of radar waves. Where InSAR results are incoherent, the history of subsidence is best characterized by ground-level surveys and the CCX.

Figure 3-6 is a time-series chart that displays and describes the history of groundwater pumping, the direct reuse of recycled water, hydraulic heads, and vertical ground motion in the Southeast Area from 1930 to 2021. The main observations and interpretations from these figures are:

- From the 1940s to about 1968, hydraulic heads declined by up to about 75 ft. There is a data gap from about 1968 to 1988; however, it is likely that hydraulic heads continued to decline from 1968 to 1978, as was the case in most portions of the Chino Basin during this period. In the western portion of the Southeast Area, hydraulic heads remained relatively stable from 1988 to 2010 and then gradually increased by about 10 to 20 ft from 2010 to 2021 (see wells CH-18A, C-13, CCPA-1, and CCPA-2). In the eastern portion of the Southeast Area, hydraulic heads have been gradually declining by about 5 to 12 ft between 2005 and March 2021 (see wells HCMP-1/1 and HCMP-1/2).
- For the current period March 2020 and March 2021, Figure 3-1b shows that the occurrence of downward vertical ground motion has been relatively minor about -0.02 ft across most of the Southeast Area. Hydraulic heads remained relatively stable or increased across most of the area during this period, which indicates that the downward ground motion is, at least in part, permanent subsidence due to delayed aquitard drainage in response to the historical declines in hydraulic heads that occurred from the 1940s to about 1978.

Figure 3-7 displays the time series of hydraulic and vertical aquifer-system deformation recorded at the CCX, which began collecting data in July 2012. Groundwater pumping began at the Chino Creek Well Field in 2014, but appears to have had little, if any, effect on hydraulic heads or aquifer-system deformation at the CCX through March 2021. In general, hydraulic heads at the CCX vary seasonally and have gradually increased since 2012, and a small amount of expansion of the aquifer-system has been measured by the CCX extensometers. This observation is consistent with the ground-levels surveys at BM 157/71 near the CCX through 2018.

3.3 Central MZ-1

Vertical ground motion is measured across Central MZ-1 via InSAR and traditional ground-level surveys. Figures 3-1a and 3-1b illustrate vertical ground motion as estimated by InSAR across Central MZ-1 for 2011-2021 and 2020-2021, respectively. The InSAR results are generally coherent across this area because the overlying land uses are urban and serve as hard and consistent reflectors of radar waves. Ground-level surveys are performed periodically along the eastern portion of the area. Figure 3-8 is a time-series chart

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2020/21 Annual Report of the GLMC

that displays and describes the long-term history of pumping, recharge, hydraulic heads, and vertical ground motion in Central MZ-1. The following observations and interpretations are derived from these figures:

- Hydraulic head data are absent in the southern portion of Central MZ-1. In the northern portion of Central MZ-1, hydraulic heads declined by about 200 ft from 1930 to about 1978. From 1978 to 1986, hydraulic heads increased by about 80 ft and remained relatively stable or have slightly increased from 1986 to 2021. Recent hydraulic heads (1986 to 2021) in the northern portion of Central MZ-1 are about 120 ft lower than the hydraulic heads in the 1930s.
- About 1.9 ft of subsidence occurred near Walnut and Monte Vista Avenue from 1988 to 2000, as measured by ground-level surveys at BM 125/49 (about 0.16 feet per year [ft/yr]). Since 2000, the rate of subsidence has slowed significantly—about 0.34 ft of subsidence occurred at a gradually declining rate from 2000 to 2021 (about 0.016 ft/yr). This time history and magnitude of vertical ground motion along the eastern side of Central MZ-1 is like the time history and magnitude of vertical ground motion in the Managed Area, which suggests a relationship to the causes of land subsidence in the Managed Area; however, there is not enough historical hydraulic head data in this area to confirm this relationship.
- Figure 3-1a shows that the areas that experienced the greatest magnitude of subsidence from March 2011 to March 2021 are in the western portion of Central MZ-1, where up to about -0.18 ft of vertical ground motion has occurred (about -0.03 ft/yr). Hydraulic heads remained relatively stable in this area from 2011 to 2021, which indicates that the downward vertical ground motion is, at least in part, permanent subsidence due to delayed aquitard drainage in response to the historical declines in hydraulic heads that occurred from 1930 to 1978.
- The ground motion measured by InSAR in Figure 3-1a also shows that the groundwater barrier (Riley Barrier) may extend from the Managed Area northward into Central MZ-1 to at least Mission Boulevard. This observation is evidenced by a steep subsidence gradient located just east of Central Avenue.
- Figure 3-1b shows that between March 2020 and 2021, vertical ground motion across most of Central MZ-1 was very minor.

3.4 Northwest MZ-1

3.4.1 Vertical Ground Motion

Vertical ground motion is measured across Northwest MZ-1 via InSAR and ground-level surveys. The InSAR results are generally coherent across this area because the overlying land uses are urban and serve as hard, consistent reflectors of radar waves. Ground-level surveys have been performed annually in the early spring across the area to complement and check the InSAR estimates of vertical ground motion.

Figure 3-1a illustrates vertical ground motion as estimated by InSAR across Northwest MZ-1 during 2011-2021. Figure 3-9 is a time-series chart that displays and describes the long-term history of pumping, recharge, hydraulic heads, and vertical ground motion in Northwest MZ-1. Figures 3-10a and 3-10b are maps of the most recent data and illustrate vertical ground motion as estimated by InSAR and ground-level surveys across Northwest MZ-1 from January 2014 to March 2021 and from March 2020 to March 2021, respectively. Spring 2021 was the first year that the PX was used as the starting benchmark for the

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2020/21 Annual Report of the GLMC

Northwest MZ-1 ground-level survey. Starting the ground-level survey from PX increases the accuracy of the ground-level surveys in this area.

The following observations and interpretations are derived from Figures 3-1a, 3-1b, 3-9, and 3-10:

- From about 1930 to 1978, hydraulic heads in Northwest MZ-1 declined by about 200 ft. From 1978 to 1985, hydraulic heads increased by about 100 ft. From 1985 to 2020 hydraulic heads fluctuated but remained relatively stable. Between March 2020 and 2021, hydraulic heads in some wells (MVWD-10, MVWD-28, and P-27) declined up to about 15 ft, where heads in the other wells [P-05 (old), P-18, P-30] remained fairly stable.
- A maximum of about 1.3 ft of subsidence occurred in this area from 1992 through March 2021—an average rate of about 0.04 ft/yr—while hydraulic heads remained relatively stable. The persistent subsidence that occurred from 1992 to 2021 cannot be entirely explained by the concurrent changes in hydraulic heads. A plausible explanation for this subsidence is that thick, slow-draining aquitards are permanently compacting in response to the historical declines in hydraulic heads that occurred between 1930 and 1978.
- From March 2011 to March 2021, the InSAR results indicate a maximum of about -0.35 ft (0.04 ft/yr) of vertical ground motion occurred in Northwest MZ-1 near the intersection of Indian Hill Boulevard and San Bernardino Avenue. From 2014 to 2021, the rate vertical ground motion slowed to about -0.03 ft/yr at this location.
- Figure 3-10 shows that the ground-level survey results from 2014 to 2021 indicate a similar spatial pattern of downward ground motion as estimated by InSAR but with slightly different magnitudes. Both methods indicate the maximum downward ground motion from December 2013 to March 2021 occurred near the intersection of Indian Hill Boulevard and San Bernardino Avenue. There is a minor difference in the magnitudes of vertical ground motion between InSAR and ground-level survey results, but these differences are most likely related to the different timing of the ground-level surveys and the SAR acquisition and/or relative errors associated with each monitoring technique.
- Figure 3-1b shows that most of Northwest MZ-1 experienced some downward ground motion between March 2020 and March 2021.

As described above, Figure 3-1a shows that maximum downward ground motion during 2011-2021 occurred near the intersection of Indian Hill Boulevard and San Bernardino Avenue. The City of Pomona Well 30 (P-30) is located just south of this area. P-30 is a non-pumping well, is screened across the shallow aquifer and upper portion of the deep aquifer and has been equipped with a transducer that measures and records hydraulic heads once every 15 minutes since September 2006. These data can provide information on the nature of the aquifer-system deformation that occurred in this area (i.e., elastic versus inelastic deformation). Figure 3-11 is a time-series chart that compares the hydraulic heads at P-30 to vertical ground motion as estimated by InSAR between 2006 and 2021. The main observations from this chart are:

• The InSAR record at P-30 is measuring seasonal elastic vertical ground motion that is caused by seasonal fluctuations in hydraulic head and the resultant seasonal elastic deformation in the aquifer-system(s). The seasonal fluctuations of hydraulic head at P-30 are coincident with the seasonal fluctuations of vertical ground motion measured by InSAR, but the long-term trend of subsidence remains persistent between 2005 and 2021 despite periods of hydraulic head recovery.





- InSAR indicates a long-term trend of downward ground motion at P-30 from 2005 to 2017.
 However, hydraulic heads at P-30 during this same time-period increased, indicating that at least about 0.35 ft of subsidence was caused by inelastic compaction of the aquifer-system.
 The inelastic compaction that occurred during this period of increasing hydraulic heads most likely represents the delayed drainage and compaction of aquitards due to historical head declines.
- Between mid-2017 and 2021, the long-term subsidence trend appeared to have slowed down, indicating that inelastic compaction of the aquitards had also slowed down. The recent slowing of subsidence observed at P-30 was likely a result of increasing hydraulic heads in the aquifers, which had led to equilibration with hydraulic heads in the aquitards and the slowing of aquitard drainage and compaction.
- Between late 2018 and early 2021, the hydraulic head at P-30 experienced two cycles of head decline and recovery. The head decline and recovery at P-30 is contemporaneous with the downward and upward vertical ground motion measured by InSAR at P-30 during this same time period. These observations suggest that in Northwest MZ-1: (i) changes in hydraulic heads, which are controlled by the pumping and recharge stresses in the area, have at least some control on the pattern and rate of subsidence and (ii) these monitoring data may be providing information on hydraulic head "thresholds" that could be used as management criteria to protect against the future occurrence of land subsidence.

3.4.2 Horizontal Ground Motion

Figure 3-1a shows a steep gradient of subsidence across the San Jose Fault in Northwest MZ-1—the same pattern of "differential subsidence" that occurred in the Managed Area during the time of ground fissuring. Differential subsidence can cause an accumulation of horizontal strain in the shallow sediments and the potential for ground fissuring.¹¹

To identify potential areas of accumulation of tensile horizontal strain in the shallow soils in this area, annual EDM surveys between closely spaced benchmark monuments that cross the San Jose Fault have been performed annually since December 2013. Figure 3-12 displays the time series of east/west-oriented and north/south-oriented strain between the pairs of closely spaced benchmarks (see the inset map on Figure 3-12) between 2013 and 2021. For reference, the top left chart on Figure 3-12 shows the downward vertical ground motion in Northwest MZ-1 as estimated by InSAR at Point C on Figure 3-9. The horizontal strain between most pairs of benchmarks appears to behave elastically — alternating between compressive and tensile deformation between EDM surveys. Tensile strain has been calculated between benchmarks (B-409 to B-408). Future EDM surveys that cross the San Jose Fault will continue to be conducted at a frequency determined by the GLMC during the scope and budget planning process for FY 2022/23.

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¹¹ Ground fissuring is the main subsidence-related threat to overlying infrastructure. Watermaster, consistent with the recommendation of the GLMC, has determined that the Subsidence Management Plan needs to be updated to include a *Subsidence Management Plan for the Northwest MZ-1* with the long-term objective to minimize or abate the occurrence of the differential land subsidence. Development of this subsidence management plan is an ongoing, multi-year effort of the Watermaster.



3.5 Northeast Area

Vertical ground motion is measured across the Northeast Area via InSAR and ground-level surveys. In December 2017, a new network of benchmarks was installed across the Northeast Area (see Figure 2-2) and surveyed for initial elevations in January 2018. The Northeast Area benchmark network was not surveyed in spring 2021.

Figures 3-1a and 3-1b illustrate vertical ground motion, as measured by InSAR, across the Northeast Area from March 2011 to March 2021 and from March 2020 to March 2021, respectively. Figure 3-13 is a time-series chart that displays and describes the long-term history of pumping, recharge, hydraulic, and vertical ground motion in the Northeast Area. The following observations and interpretations are derived from these figures:

- From about 1930 to 1978, hydraulic heads in the Northeast Area declined by about 125 ft. From 1978 to about 1985, hydraulic heads increased by about 25 ft. From 1985 to 2020 hydraulic heads fluctuated but generally remained relatively stable or show a recovery trend since 2011. Between March 2020 and 2021, hydraulic heads in some wells (O-25, O-34, and O-36) showed a declining trend. For example, hydraulic heads at City of Ontario well O-34 declined about 10 ft since March 2020.
- About one foot of subsidence occurred in the Northeast Area near the intersection of Euclid Avenue and Phillips Street (see Point D on the inset map on Figure 3-13) from 1992 to 2021. From 1992 to 2011, the subsidence occurred at a gradual and persistent rate of about 0.04 ft/yr. From 2011 to 2021, the subsidence rate declined to about 0.02 ft/yr. Hydraulic heads have remained relatively stable in this area from 1992-2021, which indicates that the downward vertical ground motion is, at least in part, permanent subsidence due to delayed aquitard drainage in response to the historical declines in hydraulic heads that occurred from 1930 to 1978. The recent decline in the rate of subsidence may be due to recent decreases in pumping, increases in recharge, and increases in hydraulic heads.
- The InSAR estimates in Figures 3-1a also indicate that downward ground motion has occurred in a concentrated area between Vineyard Avenue and Archibald Avenue south of the Ontario International Airport, where a maximum of about -0.24 ft of vertical ground motion occurred from March 2011 to March 2021. Between 2020 and 2021, the same area experienced about -0.02 ft of vertical ground motion. The western edge of this subsiding area exhibits a steep subsidence gradient, or "differential subsidence." Differential subsidence is thought to have led to episodes of ground fissuring in the Managed Area during the early 1990s. The causes of the downward ground motion in the Northeast Area are not known at this time, but a probable mechanism may be aquifer-system compaction. The differential subsidence shown in Figure 3-1a is a feature now more visible in the current InSAR long-term map for the time-period between 2011 and 2021 compared to previous long-term InSAR maps. One reason this feature is now more visible is the result of better and new processing and interpolation techniques used by General Atomics in the post-processing the SAR data and preparation of interferograms (see Section 2.1.2.3).

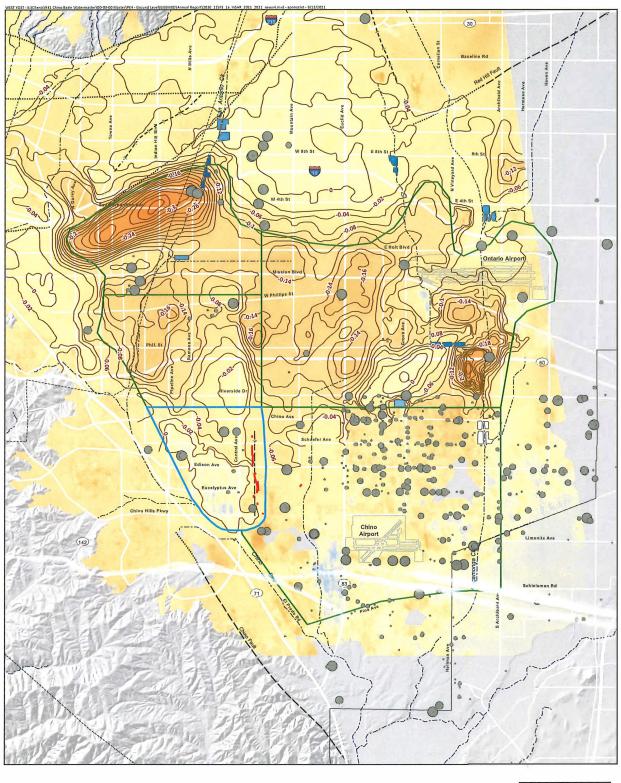
3.6 Seismicity

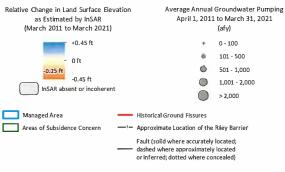
Tectonic displacement of the land surface on either side of geologic faults can be horizontal, vertical, or a combination of both. During a large earthquake, the land surface can deform suddenly (Weischet, 1963; Myers and Hamilton, 1964; Plafker, 1965). Aseismic creep is a process where smaller, more frequent earthquakes cause the land surface to deform more gradually (Harris, 2017). Figure 3-14 displays the location and magnitude of earthquake epicenters relative to vertical ground motion from March 2011 to March 2021.

Tectonic movement along the San Jose Fault Zone, including aseismic creep, is a plausible mechanism for the differential land subsidence that has occurred in Northwest MZ-1. While the earthquake epicenters shown on Figure 3-14 do not show a spatial relationship to the differential subsidence in Northwest MZ-1, without direct measurement of aquifer-system deformation, as will be provided by PX, tectonic deformation cannot be ruled-out as a mechanism for the observed subsidence in Northwest MZ-1.

Between March 2011 and March 2021, several earthquake epicenters, varying in magnitude (local magnitude) from zero to four, occurred south of the Ontario International Airport. Figure 3-14 shows that the seismicity observed along the eastern edge of the Northeast Area extends northeast towards the San Jacinto Fault. The observed seismicity may reflect deep-seated convergence between the Perris Block that underlies the Chino Basin and the San Gabriel Mountains south of the Cucamonga Fault Zone (Morton and Yerkes, 1974; Morton et al., 1982; Morton and Matti, 1987).

Currently, there is not enough data and information to determine whether tectonic movement, aquifer-system deformation, or both are the mechanisms of the observed subsidence in the eastern portion of the Northeast Area. Additional monitoring and investigation are necessary to assist in this determination.





Average Annual Basin Recharge FY 2011 to FY 2021 1 - 1,000 1,000 - 2,000 2.000 - 3.000

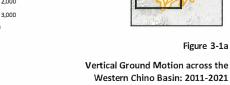
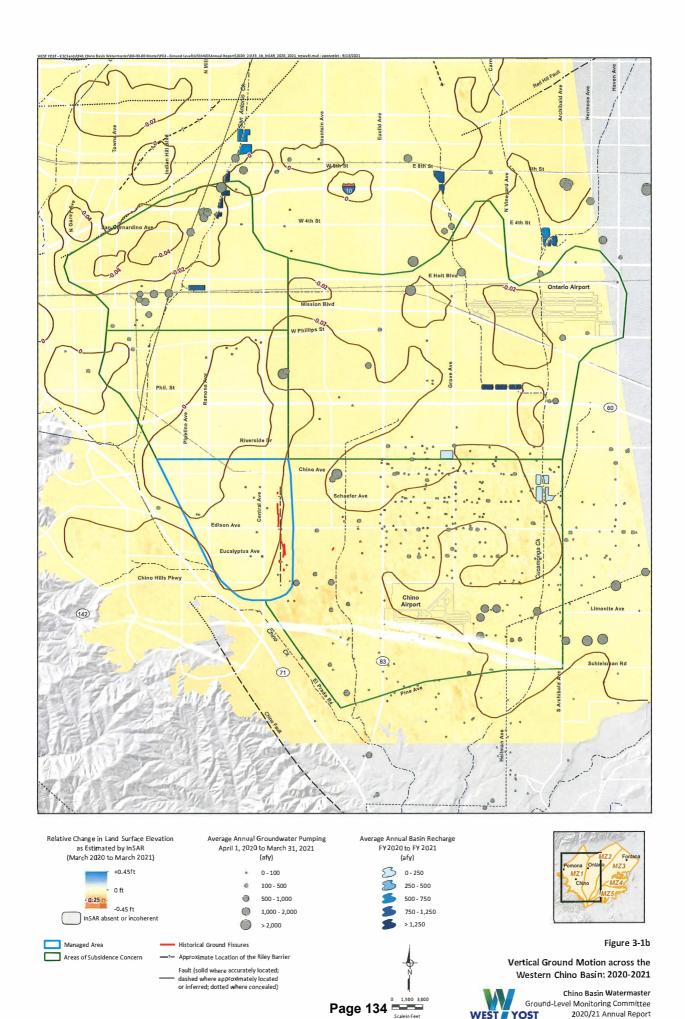
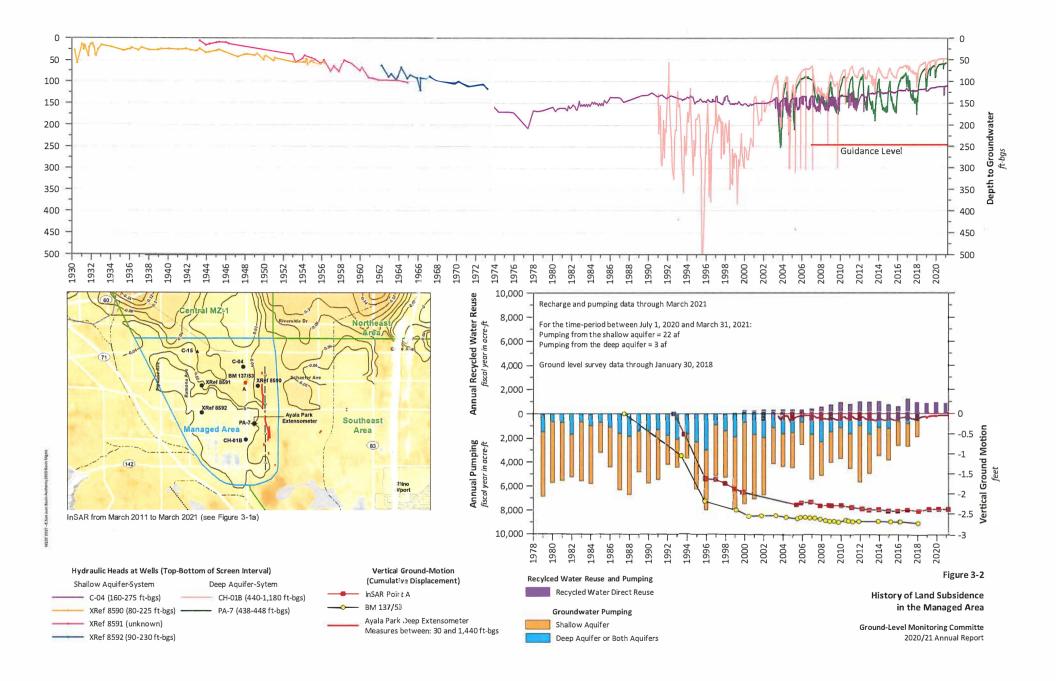
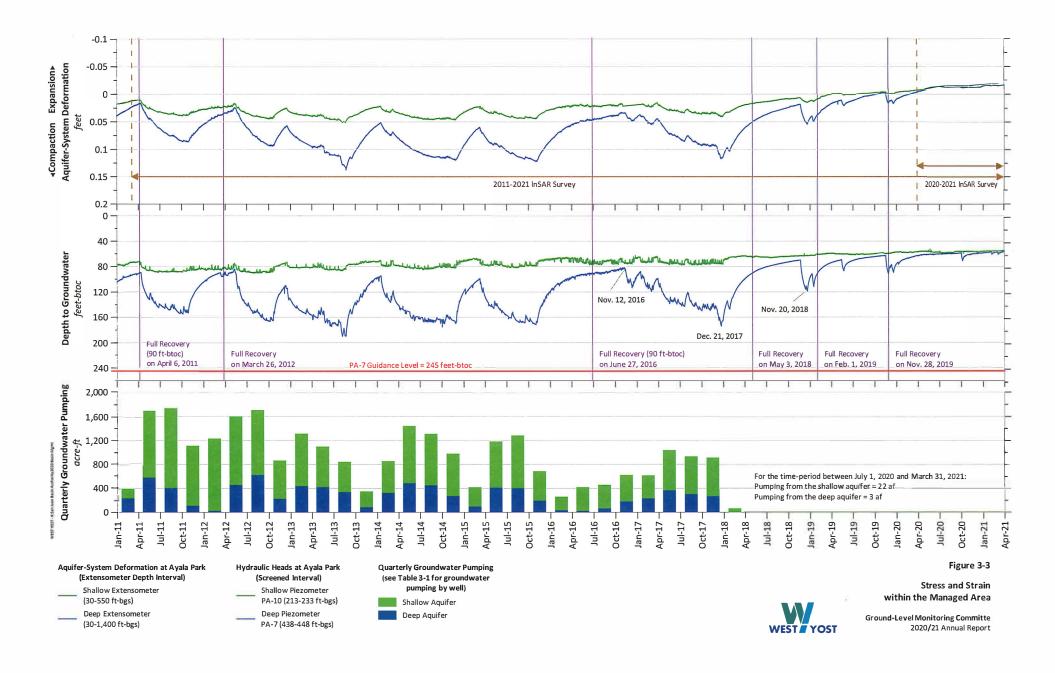


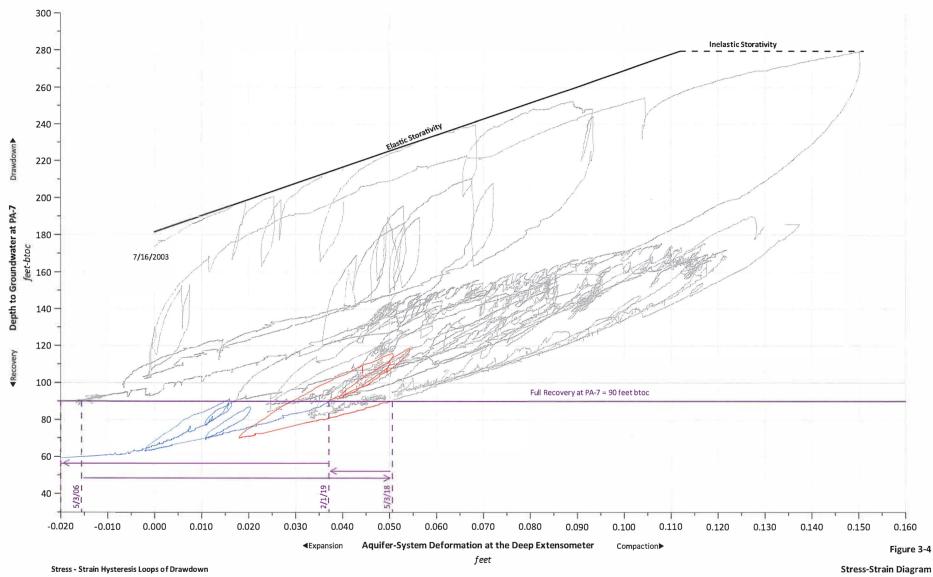


Figure 3-1a









Drawdown and recovery between July 16, 2003 and May 3, 2018

Drawdown and recovery between May 4, 2018 and January 31, 2019

Drawdown and recovery between February 1, 2019 and April 1, 2021

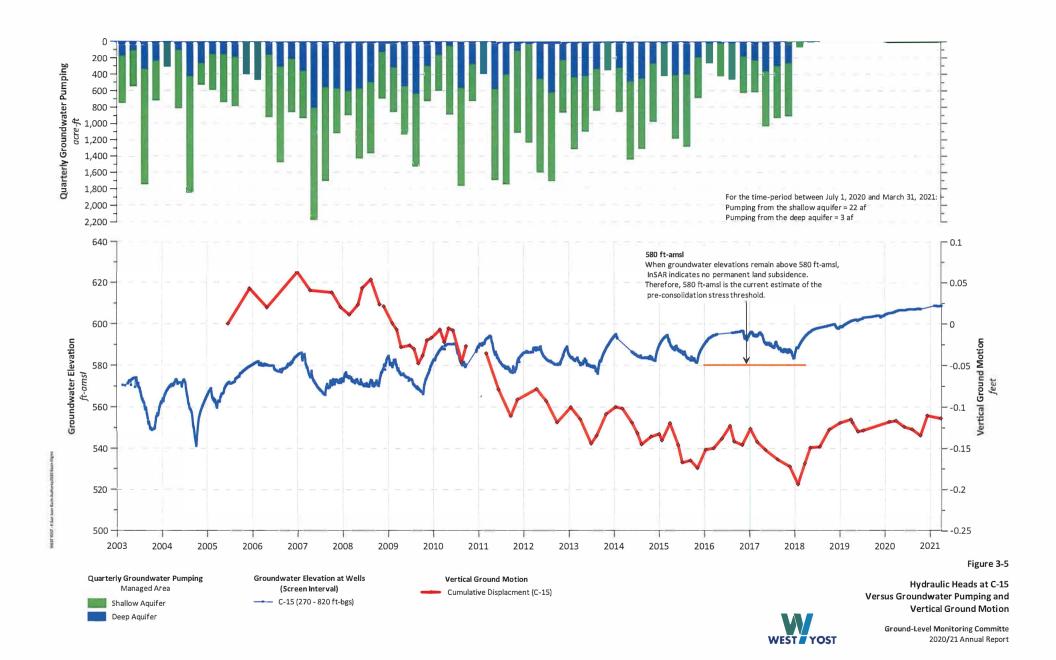
*PA-7 well-screen interval: 438-448 ft-bgs

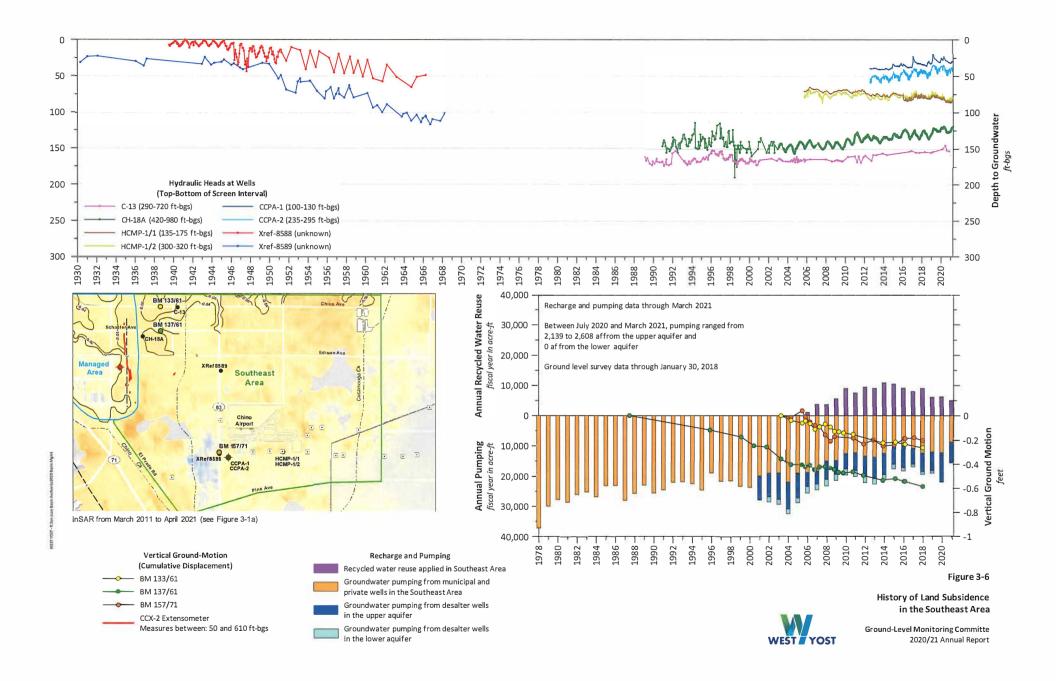
Depth interval of the Deep Extensometer: 30-1,400 feet-bgs

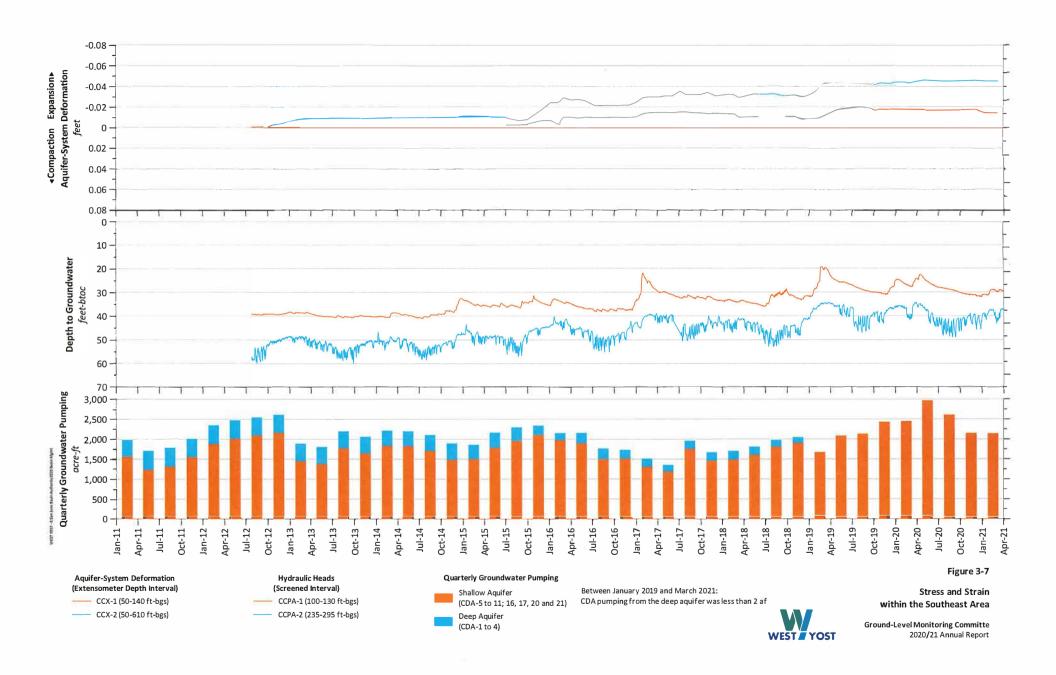
Ayala Park Extensometer

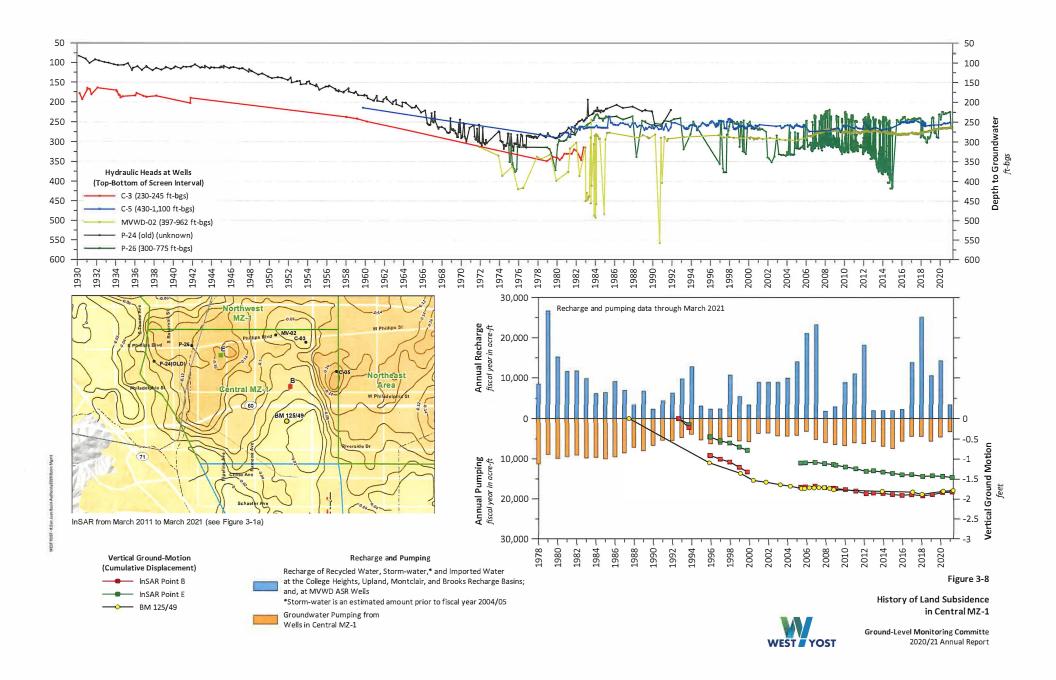
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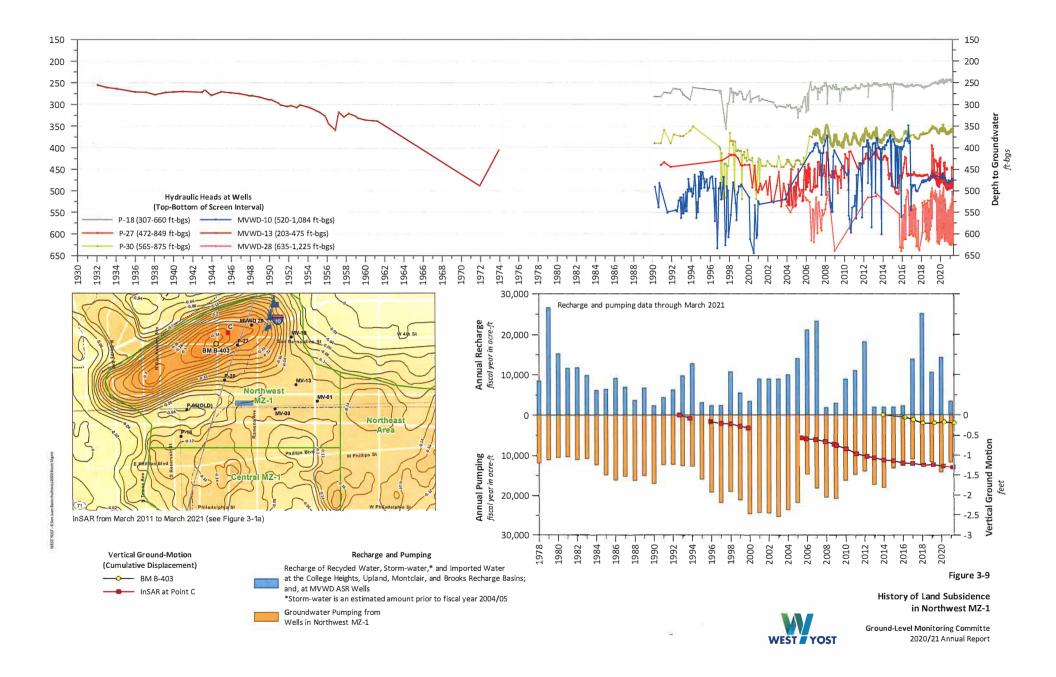
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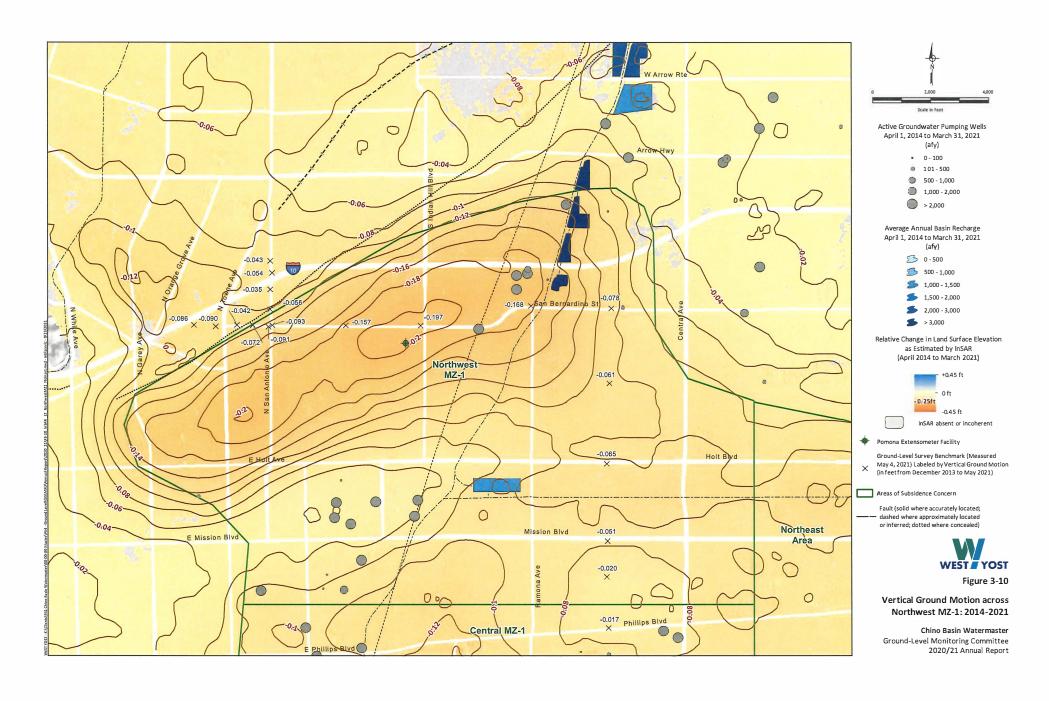


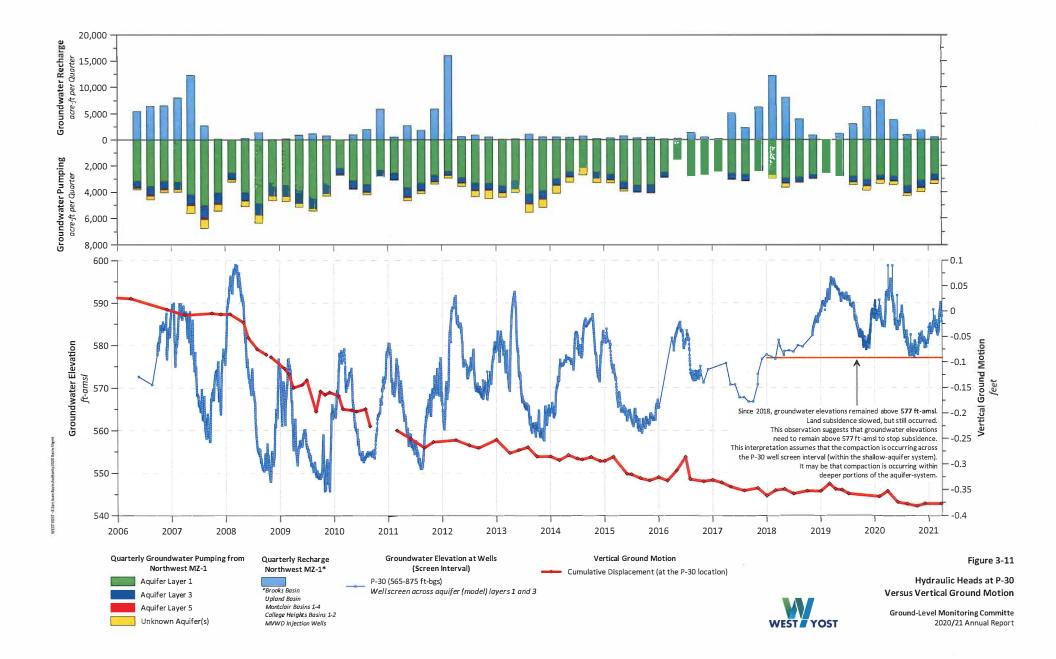


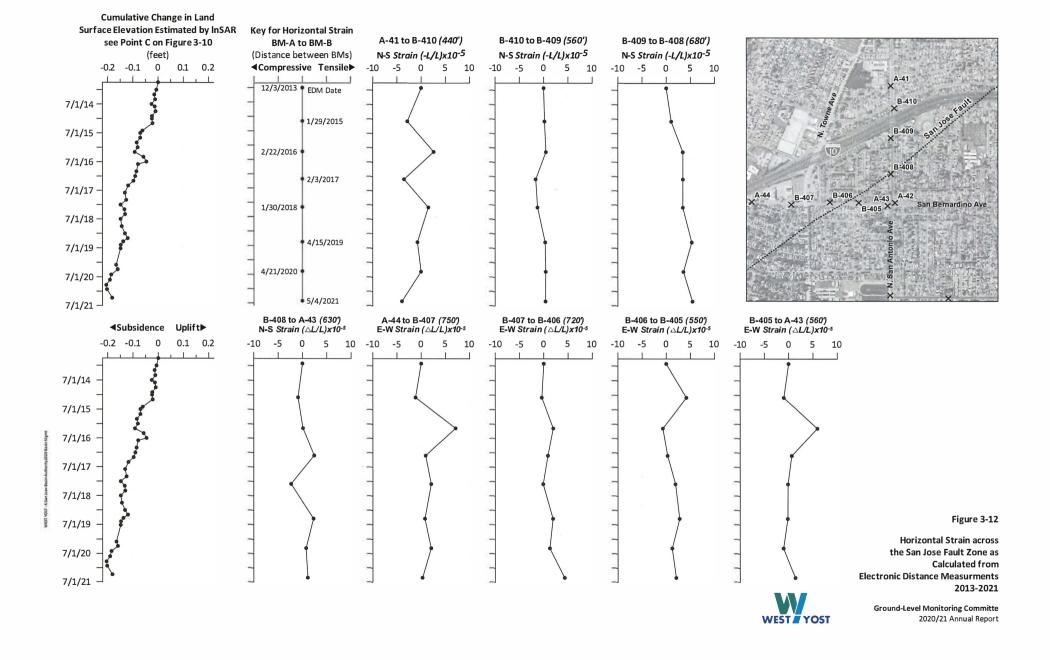


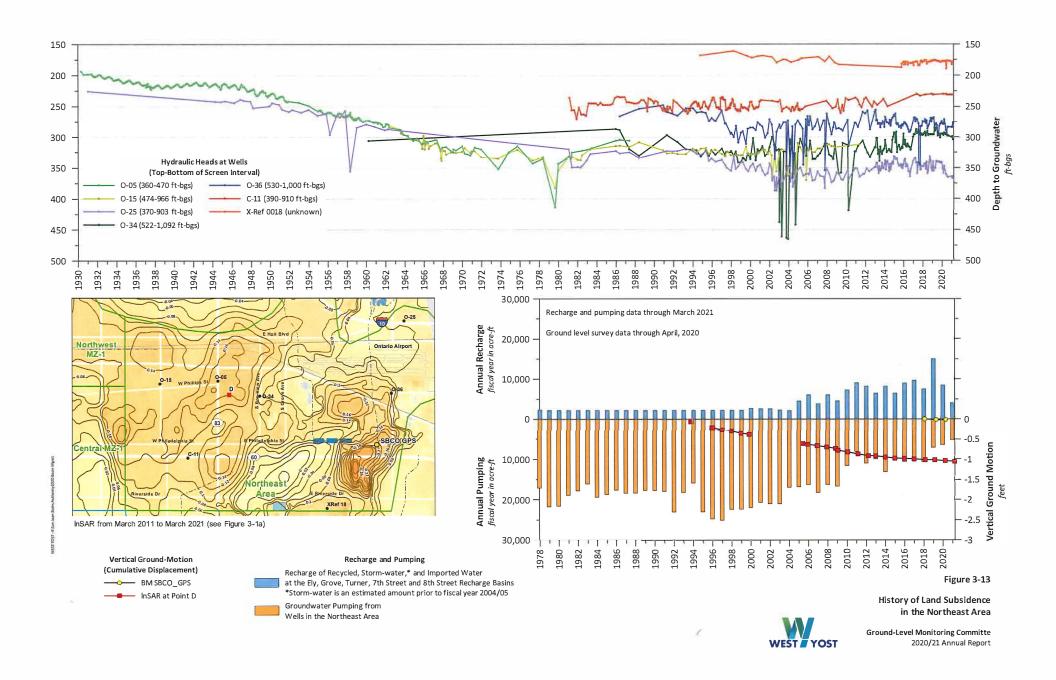


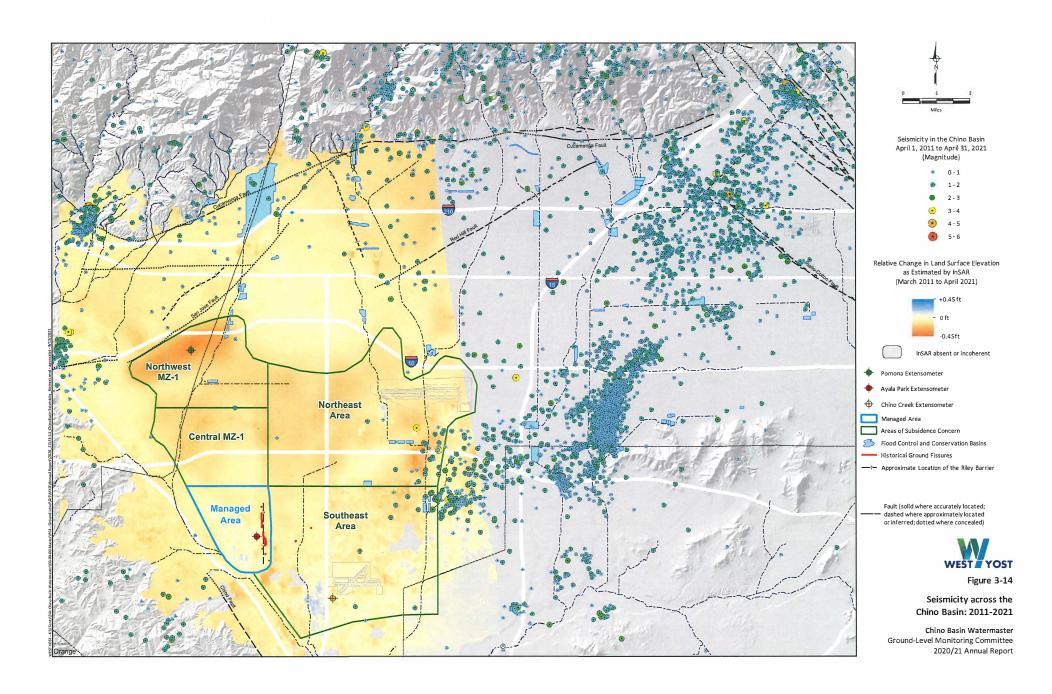














4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions and Recommendations

The major conclusions and recommendations of this 2020/21 Annual Report of the GLMC are:

- At the Ayala Park Extensometer in the Managed Area, hydraulic heads within the shallow and deep aquifer-systems increased to their highest levels since the inception of the GLMP in 2003, and the Ayala Park Extensometers recorded elastic expansion of the aquifer-system during the current reporting period of March 2020 to March 2021. The increases in hydraulic head were due to the virtual cessation of pumping in the Managed Area during the reporting period. The reduced pumping is largely due to the presence of water-quality contaminants in groundwater that constrain its use as drinking water. Hydraulic heads in the deep aquifer-system remain well above the Guidance Level, and the Ayala Park Extensometers recorded no inelastic compaction of the aquifer-system during the current reporting period.
- Across most of the other Areas of Subsidence Concern, prior annual reports have noted long-term trends of gradual land subsidence since 1992, even during periods of stable or increasing heads. The long-term trends in downward vertical ground motion have been of particular concern in Northwest MZ-1, where subsidence occurs differentially across the San Jose Fault and differential subsidence poses a threat for ground fissuring. The long-term trends of land subsidence have been attributed to the delayed drainage and compaction of aquitards as they slowly equilibrate with lower heads in the aquifers that were caused by historical pumping. Over the past several years, pumping has decreased across much of the western Chino Basin due to the presence of contaminants in groundwater that constrain its use as drinking water. Also, artificial recharge of imported water in Northwest MZ-1 (Upland, College Heights, Montclair, and Brooks basins) has increased mainly due to a "put" cycle in the Dry-Year Yield Program. The decreases in pumping and increases in recharge have caused heads to stabilize or increase, and InSAR estimates of ground motion across most of the Areas of Subsidence Concern have shown that the long-term trends of land subsidence have slowed. These observations suggest:
 - The reductions in pumping, increases in recharge, and increases in hydraulic head may be causing equilibration of hydraulic heads in the aquitards and aquifers, which is slowing the drainage and compaction of the aquitards.
 - Hydraulic heads may be nearing "threshold levels" that, if achieved and maintained, could abate the future occurrence of permanent land subsidence. These hydraulic head thresholds, and various pumping and recharge strategies to maintain heads above these thresholds, were explored by the GLMC in 2017 using a numerical, one-dimensional aquifer-system compaction model in Northwest MZ-1 (WEI, 2017b). The past few years of reduced pumping and increased recharge in Northwest MZ-1 functioned as an empirical test of the model simulations performed in 2017 and generally confirmed the model results that decreased pumping and increased recharge could elevate hydraulic heads and minimize or abate ongoing subsidence.
- The recent reduction in the rates of land subsidence across the Areas of Subsidence Concern does not mean that the future occurrence of subsidence and ground fissuring is no longer a threat. Future declines in hydraulic heads, which may be caused by increases in pumping or





decreases in recharge, among other causes, may cause aquitard compaction and rates of land subsidence to increase. For example, the pumpers in Northwest MZ-1 will likely increase pumping in the future by implementing strategies to remove groundwater contaminants through treatment, and the "put" cycles for the Dry-Year Yield Program will occur only periodically, if at all. The future occurrence of subsidence remains possible in the event of future head declines.

RECOMMENDATION: The GLMC should continue implementation of the *Work Plan to Develop a Subsidence-Management Plan for the Northwest MZ-1 Area* to develop management strategies to avoid future occurrences of subsidence. In FY 2021/22, this will include:

- Continuing aquifer-system monitoring and data analysis in Northwest MZ-1, including hydraulic head data and aquifer-system deformation data from the PX and hydraulic head data from Pomona and MVWD wells equipped with transducers.
- Updating the Northwest MZ-1 hydrogeologic conceptual model by constructing, calibrating, and documenting the one-dimensional compaction models at the MVWD-28 and PX locations.
- Using the one-dimensional compaction models at the MVWD-28 and PX locations to characterize the effectiveness of the BMA and the ISMA to minimize or abate the future occurrence of subsidence in Northwest MZ-1.^{12,13}
- Developing additional subsidence-management alternatives for evaluation in FY 2022/23 if the prior alternatives are unsuccessful at minimizing or abating the future occurrence of subsidence in Northwest MZ-1.
- Since the inception of the GLMP, Watermaster has employed various methods to monitor
 ground motion via extensometers, InSAR, and traditional ground-level surveys. Analysis of
 these data over time has shown that InSAR has become an increasingly reliable and accurate
 method for monitoring of vertical ground motion across most of the Areas of Subsidence
 Concern for the following reasons:
 - Improvements in satellite technology over time have increased the spatial resolution, temporal resolution, and accuracy of InSAR. InSAR provides higher spatial and temporal resolution compared to traditional leveling surveys.
 - General Atomics (formerly Neva Ridge Technologies, Inc.), a long-time subconsultant to the Watermaster, has been able to stay abreast of the newest InSAR products and processing techniques which in turn provides InSAR deliverables to the GLMC with high accuracy, resolution, and coherence.
 - Where and when the extensometer, InSAR, and traditional ground-leveling datasets overlap, InSAR shows a similar spatial pattern and magnitude of ground motion compared to the ground-level surveys. Research performed by the GLMC has shown that the errors inherent in InSAR and traditional ground-level methods are similar.

¹² The development and evaluation of the BMA and ISMA were reported on here: https://cbwm.syncedtool.com/shares/folder/e83081106c3072/?folder_id=1126

¹³ Characterizing the Baseline Management Alternative, Initial Subsidence Management Alternative, and developing and evaluating additional subsidence-management alternatives is contingent on the successful completion, calibration, and GLMC review of the updated Watermaster's MODFLOW model that simulates subsidence across the Chino Basin. The completion dates for these tasks may need to be adjusted.



 Land-use changes from agricultural to urban uses have added hard, consistent radar wave reflectors to the ground surface over time. InSAR results are now coherent and useful across most of the Areas of Subsidence Concern.

RECOMMENDATION: The GLMC should preferentially rely on InSAR over traditional ground-leveling techniques to monitor ground motion as a cost-saving strategy. However, the GLMC should consider employing methods to verify the InSAR estimates of vertical ground motions via techniques such as GPS, extensometers, and less-frequent ground-leveling surveys.

In the Northeast Area, the long- and short-term InSAR estimates indicate that persistent downward ground motion has occurred in a concentrated area south of the Ontario Airport between Vineyard Avenue and Archibald Avenue. The western edge of this subsiding area exhibits a steep subsidence gradient, or "differential subsidence." Subsidence may have occurred in this area in response to declining hydraulic heads, but there is not enough historical hydraulic head data in this area to confirm this relationship. In FY 2021/22, the GLMC will conduct a reconnaissance-level subsidence investigation of the Northeast Area. As part of the investigation, available borehole and lithologic data, pumping and recharge data, and high-frequency hydraulic head data will be collected, reviewed, analyzed and compared against InSAR estimates of vertical ground motion in the southeast part of the Northeast Area. Figures and charts will be prepared to support the data analysis and interpretations, and recommendations will be developed for future investigations and monitoring.

4.2 Recommended Scope and Budget for Fiscal Year 2021/22

The scope-of-work for the GLMP for FY 2021/22 was recommended by the GLMC in April 2021 and approved by Watermaster on July 22, 2021. Appendix A is the technical memorandum prepared by the GLMC, titled *Recommended Scope and Budget of the Ground-Level Monitoring Committee for FY 2021/22*.

In March 2022, Watermaster staff and the Watermaster Engineer will present the preliminary results of the GLMP through 2021 and a recommended FY 2022/23 scope and budget to the GLMC for consideration. As is typically done, the GLMC will recommend changes to the then-current scope of work for the GLMP.

4.3 Changes to the Subsidence Management Plan

The Subsidence Management Plan calls for ongoing monitoring, data analysis, annual reporting, and adjustments to the MZ-1 Plan, as warranted by the data. The Subsidence Management Plan states that if data from existing monitoring efforts in the Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, Watermaster will revise the Subsidence Management Plan pursuant to the process outlined in Section 4 of the Subsidence Management Plan. The recommendations described above to continue implementation of the Work Plan to Develop a Subsidence-Management Plan for the Northwest MZ-1 Area and to conduct a reconnaissance-level subsidence investigation of the Northeast Area are consistent with the requirements of the OBMP Program Elements 1 and 4 and its implementation plan contained in the Peace Agreement.



5.0 GLOSSARY

The following glossary contains the terms and definitions used in this report and generally in the discussions at GLMC meetings.

Aquifer – A saturated, permeable, geologic unit that can transmit significant quantities of groundwater under ordinary hydraulic gradients and is permeable enough to yield economic quantities of water to wells.

Aquifer-system – A heterogeneous body of interbedded permeable and poorly permeable geologic units that function as a water-yielding hydraulic unit at a regional scale. The aquifer-system may comprise one or more aquifers within which aquitards are interspersed. Confining units may separate the aquifers and impede the vertical exchange of groundwater between aquifers within the aquifer-system.

Aquitard — A saturated, but poorly permeable geologic unit that impedes groundwater movement and does not yield water freely to wells but may transmit appreciable water to and from adjacent aquifers and, where sufficiently thick, may constitute an important groundwater storage unit. Areally, extensive aquitards may function regionally as confining units within aquifer-systems.

Artesian – An adjective referring to confined aquifers. Sometimes the term artesian is used to denote a portion of a confined aquifer where the altitudes of the potentiometric surface are above land surface (flowing wells and artesian wells are synonymous in this usage). But, more generally, the term indicates that the altitudes of the potentiometric surface are above the altitude of the base of the confining unit (artesian wells and flowing wells are not synonymous in this case).

Compaction – Compaction of the aquifer-system reflects the rearrangement of the mineral grain pore structure and largely non-recoverable reduction of the porosity under stresses greater than the pre-consolidation stress. Compaction, as used here, is synonymous with the term "virgin consolidation" used by soils engineers. The term refers to both the process and the measured change in thickness. As a practical matter, a very small amount (1 to 5 percent) of compaction is recoverable as a slight elastic rebound of the compacted material if stresses are reduced.

Compression – A reversible compression of sediments under increasing effective stress; it is recovered by an equal expansion when aquifer-system heads recover to their initial higher values.

Consolidation – In soil mechanics, consolidation is the adjustment of a saturated soil in response to increased load, involving the squeezing of water from the pores and a decrease in the void ratio or porosity of the soil. For the purposes of this report, the term "compaction" is used in preference to consolidation when referring to subsidence due to groundwater extraction.

Confined Aquifer-system – A system capped by a regional aquitard that strongly inhibits the vertical propagation of head changes to or from an overlying aquifer. The heads in a confined aquifer-system may be intermittently or consistently different than in the overlying aquifer.

Deformation, Elastic – A fully reversible deformation of a material. In this report, the term "elastic" typically refers to the reversible (recoverable) deformation of the aquifer-system sediments or the land surface.



Deformation, Inelastic – A non-reversible deformation of a material. In this report, the term "inelastic" typically refers to the permanent (non-recoverable) deformation of the aquifer-system sediments or the land surface.

Differential Land Subsidence — Markedly different magnitudes of subsidence over a short horizontal distance, which can be the cause of ground fissuring.

Drawdown – Decline in aquifer-system head typically due to pumping by a well.

Expansion – In this report, expansion refers to the expansion of sediments. A reversible expansion of sediments under decreasing effective stress.

Extensometer – A monitoring well housing a free-standing pipe or cable that can measure vertical deformation of the aquifer-system sediments between the bottom of the pipe and the land surface datum.

Ground Fissures – Elongated vertical cracks in the ground surface that can extend several tens of feet in depth.

Hydraulic Conductivity – A measure of the medium's capacity to transmit a particular fluid. The volume of water at the existing kinematic viscosity that will move in a porous medium in unit time under a unit hydraulic gradient through a unit area. In contrast to permeability, it is a function of the properties of the liquid, as well as the porous medium.

Hydraulic Gradient – Change in head over a distance along a flow line within an aquifer-system.

Hydraulic Head – A measure of the potential for fluid flow. The height of the free surface of a body of water above a given subsurface point.

InSAR (Synthetic Aperture Radar Interferometry) – A remote-sensing method (radar data collected from satellites) that measures ground-surface displacement over time.

Linear Potentiometer – A highly sensitive electronic device that can generate continuous measurements of displacement between two objects. Used to measure movement of the land-surface datum with respect to the top of the extensometer measuring point.

Nested Piezometer – A single borehole containing more than one piezometer.

Overburden – The weight of overlying sediments, including their contained water.

Piezometer – A monitoring well that measures groundwater levels, or piezometric level, at a point, or in a very limited depth interval, within an aquifer-system.

Piezometric (Potentiometric) Surface – An imaginary surface representing the total head of groundwater within a confined aquifer-system, defined by the level to which the water will rise in wells or piezometers that are screened within the confined aquifer-system.

Pore pressure – Water pressure within the pore space of a saturated sediment.

Rebound – Elastic rising of the land surface.



Stress, Effective – The difference between the geostatic stress and fluid pressure at a given depth in a saturated deposit, representing the portion of the applied stress that becomes effective as intergranular stress.

Stress, Pre-consolidation – The maximum antecedent effective stress to which a deposit has been subjected and can withstand without undergoing additional permanent deformation. Stress changes in the range less than the pre-consolidation stress produce elastic deformations of small magnitude. In fine-grained materials, stress increases beyond the pre-consolidation stress produce much larger deformations that are principally inelastic (non-recoverable). Synonymous with "virgin stress."

Stress – Stress (pressure) that is borne by and transmitted through the grain-to-grain contacts of a deposit, thus affecting its porosity and other physical properties. In one-dimensional compression, effective stress is the average grain-to-grain load per unit area in a plane normal to the applied stress. At any given depth, the effective stress is the weight (per unit area) of sediments and moisture above the water table plus the submerged weight (per unit area) of sediments between the water table and a specified depth plus or minus the seepage stress (hydrodynamic drag) produced by downward or upward components, respectively, of water movement through the saturated sediments above the specified depth. Effective stress may also be defined as the difference between the geostatic stress and fluid pressure at a given depth in a saturated deposit and represents the portion of the applied stress that becomes effective as intergranular stress.

Subsidence – Permanent or non-recoverable sinking or settlement of the land surface due to any of several processes.

Transducer – An electronic device that can measure piezometric levels by converting water pressure to a recordable electrical signal. Typically, the transducer is connected to a data logger, which records the measurements.

Water Table – The surface of a body of unconfined groundwater at which the pressure is equal to atmospheric pressure and is defined by the level to which the water will rise in wells or piezometers that are screened within the unconfined aquifer-system.



6.0 REFERENCES

- Fife, D.L., Rodgers, D.A., Chase, G.W., Chapman, R.H., and E.C. Sprotte. (1976). *Geologic Hazards in Southwestern San Bernardino County, California*: California Division of Mines and Geology Special Report 113, 40 p.
- Geomatrix Consultants, Inc. (1994). Final Report Ground Fissuring Study, California Department of Corrections, California Institution for Men, Chino, California. Project No. 2360. San Francisco, CA.
- GEOSCIENCE, Support Services, Inc. (2002). *Preliminary Geohydrologic Analysis of Subsidence in the Western Portion of the Chino Basin.* Prepared for the City of Chino Hills. August 29, 2002.
- Harris, R. A. (2017). Large earthquakes and creeping faults, Rev. Geophys., 55, 169-198, doi:10.1002/2016RG000539.
- Kleinfelder, Inc. (1993). Geotechnical Investigation, Regional Subsidence and Related Ground Fissuring, City of Chino, California. Project No. 58-3101-01. Diamond Bar, CA.
- Kleinfelder, Inc. (1996). Chino Basin Subsidence and Fissuring Study, Chino, California. Project No. 58-5264-02. Diamond Bar, CA.
- Morton, D.M., and Yerkes, R.F. (1974). Spectacular scarps of the frontal fault system, eastern San Gabriel Mountains. Geological Society of America Abstracts with Programs, v. 6, no. 3, p. 223-224.
- Morton, D.M., Matti, J.C., and Tinsley, J.C. (1982). *Quaternary history of the Cucamonga fault zone, southern California*. Geological Society of America Abstracts with Programs, v. 14, no. 4, p. 218.
- Morton, D.M., and Matti, J.C. (1987). The Cucamonga fault zone: Geologic setting and Quaternary history, in Morton, D.M., and Yerkes R.F., eds., Recent reverse faulting in the Transverse Ranges, California. U.S. Geological Survey Professional Paper 1339, p. 179-203.
- Myers, W.B. and Hamiliton, W. (1964). *Deformation Accompanying the Hebgen Lake Earthquake of August 17. 1959*. U.S. Geological Survey Professional Paper 435-1, p. 55-98.
- Plafker, G.G. (1965). *Tectonic Deformation Associated with the 1964 Alaska Earthquake of March 27, 1964.* Science, v. 148, no. 3678, p. 1675-1687.
- Riley, F.S. (1986). *Developments in borehole extensometry,* in Johnson, A.I., Carbognin, L., and Ubertini, L., eds., Proceedings, Land Subsidence Third International Symposium on Land Subsidence, Venice, Italy, March 1984: International Association of Hydrological Sciences Publication, p. 343-355.
- United States Geological Survey (USGS). (1999). *Land subsidence in the United States* (Devin Galloway, David R. Jones, S.E). Ingebritsen. USGS Circular 1182. 175 p.
- Weischet, W. (1963). Further Observations of Geologic and Geomorphic Changes Resulting from the Catastrophic Earthquakes of May 1960, in Chile (translated by R. Von Huene). Seismology Society America Bulletin, v. 53, no. 6, p. 1237-1257.
- Wildermuth Environmental, Inc. (WEI). (1999). Optimum Basin Management Program. Phase I Report. Prepared for the Chino Basin Watermaster. August 19, 1999.
- Wildermuth Environmental, Inc. (WEI). (2003). *Management Zone 1 (MZ-1) Interim Monitoring Program*. Prepared for the Chino Basin Watermaster. January 2003.
- Wildermuth Environmental, Inc. (WEI). (2006). Optimum Basin Management Program. Management Zone 1 Interim Monitoring Program. MZ-1 Summary Report. Prepared for the Chino Basin Watermaster. February 2006.
- Wildermuth Environmental, Inc. (WEI). (2007). *Chino Basin Optimum Basin Management Program. Management Zone 1 Subsidence Management Plan*. Prepared for the Chino Basin Watermaster. October 2007.
- Wildermuth Environmental, Inc. (WEI). (2013). 2012 State of the Basin Atlas. Prepared for the Chino Basin Watermaster. June 2013.



- Wildermuth Environmental, Inc. (WEI). (2015a). *Chino Basin Subsidence Management Plan*. Prepared for the Chino Basin Watermaster. July 23, 2015.
- Wildermuth Environmental, Inc. (WEI). (2015b). Work Plan to Develop a Subsidence-Management Plan for the Northwest MZ-1 Area. Prepared for the Chino Basin Watermaster. July 23, 2015.
- Wildermuth Environmental, Inc. (WEI). (2016). 2016 Annual Report of the Ground-Level Monitoring Committee.

 Prepared for the Chino Basin Watermaster. September 2017.
- Wildermuth Environmental, Inc. (WEI). (2017a). *Initial Hydrologic Conceptual Model and Monitoring and Testing Program for the Northwest MZ-1 Area.* Prepared for the Chino Basin Watermaster. December 2017.
- Wildermuth Environmental, Inc. (WEI). (2017b). <u>Task 3 and Task 4 of the Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area: Development and Evaluation of Baseline and Initial Subsidence-Management Alternatives.</u> Prepared for the Ground-Level Monitoring Committee of the Chino Basin Watermaster. December 13, 2017.

Appendix A

Recommended Scope and Budget of the Ground-Level Monitoring Committee for FY 2021/22





TECHNICAL MEMORANDUM

DATE: July 8, 2021 Project No.: 941-80-20-22

SENT VIA: EMAIL

TO: Ground-Level Monitoring Committee

FROM: Michael Blazevic

REVIEWED BY: Andy Malone

SUBJECT: Recommended Scope of Services and Budget of the Ground-Level Monitoring

Committee for Fiscal Year 2021/22 (Final)

BACKGROUND AND PURPOSE

Pursuant to the Optimum Basin Management Program Implementation Plan and the Peace Agreement, the Chino Basin Watermaster (Watermaster) implements a Subsidence Management Plan (SMP) for the Chino Basin to minimize or stop the occurrence of land subsidence and ground fissuring. The Court approved the SMP and ordered its implementation in November 2007 (2007 SMP). The 2007 SMP was updated in 2015 (2015 SMP) and can be downloaded from the Watermaster website. The SMP outlines a program of monitoring, data analysis, and annual reporting. A key element of the SMP is its adaptive nature—Watermaster can adjust the SMP as warranted by the data.

The Watermaster Engineer, with the guidance of the Ground-Level Monitoring Committee (GLMC), prepares the annual reports which include the results of the monitoring program, interpretations of the data, recommendations for the Ground-Level Monitoring Program (GLMP) for the following fiscal year (FY), and recommendations for adjustments to the SMP, if any.

This Technical Memorandum (TM) describes the Watermaster Engineer's recommended activities for the GLMP for FY 2021/22 in the form of a proposed scope of services and budget.

Members of the GLMC are asked to:

- Review this TM prior to March 4, 2021
- Attend a meeting of the GLMC at 9:00 am on March 4, 2021 to discuss the proposed scope of services and budget for FY 2021/22
- Submit comments and suggested revisions on the proposed scope of services and budget for FY 2021/22 to the Watermaster by March 19, 2021
- Attend a meeting of the GLMC at 9:00 am on April 1, 2021 to discuss comments and revisions to the proposed scope of services and budget for FY 2021/22

> Submit additional comments and suggested revisions on the proposed scope of services and budget for FY 2021/22 to the Watermaster by May 21, 2020.

The final scope of services and budget that is recommended by the GLMC will be included in the Watermaster's FY 2021/22 budget. The final scope of services, budget, and schedule for FY 2021/22 will be included in Section 4 of the 2020/21 Annual Report of the GLMC.

RECOMMENDED SCOPE OF SERVICES AND BUDGET - FY 2021/22

A proposed scope of services for the GLMP for FY 2021/22 is shown in Table 1 as a line-item cost estimate. The proposed scope of services is summarized below.

Task 1. Setup and Maintenance of the Monitoring Network

The Chino Basin extensometer facilities are key monitoring facilities for the GLMP. They require regular and as-needed maintenance and calibration to remain in good working order and to ensure the recording of accurate measurements.

Task 1.1. Maintain Extensometer Facilities

This subtask includes performing monthly visits to the Ayala Park, Chino Creek, and Pomona extensometer facilities to ensure functionality and calibration of the monitoring equipment and data loggers.

Task 1.2. Annual Lease Fees for the Chino Creek Extensometer Site

The County of San Bernardino (County) owns the land the Chino Creek extensometer facility is located on. As such, the Watermaster entered into a lease agreement with the County in 2012 and pays the County and annual rental payment of \$1,596.

Task 2. Aquifer-System Monitoring and Testing

This task involves the collection and compilation of hydraulic head and aquifer-system deformation data from the Ayala Park, Chino Creek, and Pomona extensometer facilities.

Task 2.1. Conduct Quarterly Data Collection from Extensometers; Data Checking and Management

This subtask involves the routine quarterly collection and checking of data from the extensometer facilities. Quarterly data collection is necessary to ensure that the monitoring equipment is in good working order and to minimize the risk of losing data because of equipment malfunction. For this subtask, the complete extensometer records from the Ayala Park, Chino Creek, and Pomona extensometer facilities will be loaded to HydroDaVESM (Hydrologic Database and Visual Explanations) and checked. Both hydraulic head and aquifer-system data from the extensometer facilities will be loaded and checked to HydroDaVE on a quarterly basis.

WEST YOST Page 158

Table 1. Work Breakdown Structure and Cost Estimates Ground-Level Monitoring Program: FY 2021/22														
Tack Description	Labo	r (days)		Other Direct Costs					Recommended		Totals Net Change	Potential	Budget with Care	
Task Description	Person Days	Total	Travel	New Equip.	Equip. Rental	Outside Pro	Misc.	Total	Totals by Task	Budget FY 2021/22	Approved Budget FY 2020/21	to 2021/22	Carry-Over FY 2021/22	Over FY 2021/22
Task 1. Setup and Maintenance of the Monitoring Network		\$26,208						\$7,388	\$33,596	\$33,596	\$32,988	a - b	c sc	533,55
1.1 Maintain Extensometer Facilities	_	\$20,208						27,388	\$33,590	333,396	334,300	2000		333,33
1.1.1 Routine maintenance of Ayala Park, Chino Creek, and Pomona extensometer facilities	14	\$19,824	\$1,056	\$250	\$152	I .	1	\$1,458	\$21,282	\$21,282	\$20.818	\$464	\$0	\$21,28
1.1.2 Replacement/repair of equipment at extensometer facilities	4	\$6,384	\$264		\$70			\$4,334	\$10,718		\$10,574		SC	
1.2 Annual Lease Fees for the Chino Creek extensometer site	0	\$0	VIO.	\$2,000	V/-		\$1,596	\$1,596	\$1,596				\$0	
Task Z. MZ-1: Aquifer-System Monitoring and Testing	_	\$30,736						\$680	\$31,416			\$4.024	\$c	\$31,41
1333 Z. MAZZ. Aquirez-system involutioning and results 2.1 [conduct Quarterly Data Collection from Extensometers; Data Checking and Management		230,730		1				2000	751,410	731,410	727,332	54,024	7.	751,42
2.1.1 Download data from the Ayala Park extensometer facility	2	\$2,687	\$230		\$76			\$306	\$2,993	\$2,993	\$2,930	\$63	ŚC	\$2.99
2.1.2 Download data from the Chino Creek extensometer facility	2	\$2,687	\$26			- 5		\$26	\$2,713				\$0	
2.1.3 Download data from Pomona extensometer facility	4	\$5,374	\$272		\$76			\$348					şc	
2.1.4 Process, check, and upload data to database	13	\$19,988						\$0				\$3,772	\$C	
Task 3. Basin Wide Ground-Level Monitoring Program (InSAR)		\$5,116						\$85,000	\$90,116	\$90,116	\$90,002	\$114	\$0	\$90,11
3.1 Acquire TerraSAR-X Data and Prepare Interferograms for 2021/22	1	\$1,845				\$85,000		\$85,000					\$0	
3.2 Check and Review InSAR Results	2	\$3,271				,500		\$0					\$0	
Task 4. Perform Ground-Level Surveys		\$7,728						\$192,203					Sc	-
4.1 Conduct Spring-2022 Elevation surveys in Northwest MZ-1	0.5	\$926				\$25,157		\$25,157					\$C	
4.2 Conduct Spring-2022 Elevation Surveys in Northwest M2-1 4.2 Conduct Spring-2022 Elevation Survey in the Northeast Area	0.5	\$926				\$47,069		\$47,069					SC	
4.2 Conduct Spring-2022 Elevation Survey in the Southeast Area 4.3 Conduct Spring-2022 Elevation Survey in the Southeast Area	0.5	\$926				\$49,797		\$49,797					SC	
4.4 Conduct Spring-2022 Elevation and EDM Surveys in the Managed Area/Fissure Zone Area	0.5	\$0				\$52,270		\$52,270					SC	
4.5 Replace Destroyed Benchmarks (if needed)	0	\$0	_			\$17,910		\$17,910					SC	
4.6 Process, Check, and Update Database	4	\$5,877						\$0			\$5,744		\$0	
Task 5. Data Analysis and Reporting		\$85,586	_					\$0					\$0	
188X 3. Data Analysis and Reporting 5.1 Prepare Draft 2020/21 Annual Report of the Ground-Level Monitoring Committee	20.5	\$33,286						\$0			\$35,196		SC	
5.2 Prepare Final 2020/21 Annual Report of the Ground-Level Monitoring Committee	10.5	\$19,546						\$0			\$19,088		SC	
5.3 Compile and Analyze Data from the 2021/22 Ground-Level Monitoring Program	14	\$21,144				-		\$0					\$0	
5.4 Conduct Reconnaissance-Level Subsidence Investigation of the Northeast Area (southeast part)	17	721,144						30	72212.11	72.,2.1.	\$20,0 TO	7130	-	721,1
5.4.1 Collect and compile available InSAR, ground-level survey, lithologic, piezometric level, and pumping and recharge data	2.75	\$4,442		1	_	i e		\$0	\$4,442	\$4,442	\$0	\$4,442	\$0	\$4,44
5.4.2 Prepare lithologic cross-sections and data graphics of pumping, piezometric levels, and InSAR time-histories; share with the GLMC	4.25	\$7,168						\$0		\$7,168	\$0		\$0	
Task 6. Develop a Subsidence-Management Plan for Northwest MZ-1		\$238,164						\$480	\$238,644	\$238,644	\$99,189	\$139,455	\$91,691	\$146,95
1 as No. Develop a substitute remaining ment remained in the street in 2-1. 6.1 Aquifer-System Monitoring		3238,164			_			3400	7230,044	\$250,044	433,103	7155,455	\$31,031	V2.10/5.
6.1.1 Collect pumping and piezometric level data from agencies every two months; check and upload data to HDX	9.75	\$12,669			_			\$0	\$12,669	\$12,669	\$10,599	\$2,070	SC	\$12.66
				i i		ľ								
6.1.2 Prepare and analyze charts and datagraphics or pumping and recharge (Northwest MZ-1), piezometric levels, and aquirer-system deformation from PX	8.25	\$11,913						\$0	\$11,913	\$11,913	\$11,634	\$279	\$0	\$11,91
6.2 Update the One-Dimensional (1D) Compaction Models at the MVWD-28 and PX Locations		1					-							
6,2.1 Construct a 1D compaction model at the PX location	0	\$0						\$0	\$0	\$0				
Calibrate 1D composition model to derive hydraulic and mechanical properties of aquifore (aquitants and estimate the pro-consolidation											sc		so	
6.2.2 stress(es)	0	\$0						\$0	\$0	\$0	\$0	\$0	\$1	1 :
6.2.3 Update the 1D compaction model at the MVWD-28 location from a three to a five layer model and re-calibrate	0	\$0						\$0	\$0	\$0				
6.3 Document the One-Dimensional (1D) Compaction Models at the MVWD-28 and PX Locations										G				
6.3.1 Prepare for and conduct a meeting to review the results of the 1D compaction models	a 4.25	\$8,722	\$120					\$120	\$8,842				\$0	
6.3.2 Review and respond to the GLMCcomments on the 1D compaction models	3	\$6,140						\$0	\$6,140	\$6,140	\$0	\$6,140	\$0	\$6,14
6.3.3 Prepare a draft TM summarizing the construction and calibration of the PX 1D compaction model and updates to the MVWD-28 1D	25.5	\$46,664						so	\$46,664	\$46,664				
compaction model and distribute to the GLMC											so	\$61,813	\$14,735	\$47.07
	a 4.75	\$9,299				1		\$0				002,025	411,755	1 341,61
6.3.5 Incorporate the GLMC comments and prepare a final technical memorandum	3.0	\$5,730	\$120					\$120	\$5,850	\$5,850				
6.4 Refine and Evaluate Subsidence-Management Alternatives		1												
6.4.1 Run the Baseline Management Alternative (BMA)	19	\$33,176						\$0						
5.4.2 Prepare a TM that summarizes the evaluation of the BMA and a recommended ISMA	10.75	\$19,425						\$0						
5.4.4 Meet with the GLMC to receive feedback on the TM	4.5	\$8,757	\$120	_				\$120			475.05		\$76,95	\$60,3
6.4.5 Run the Initial Subsidence Management Alternative (ISMA)	25.75	\$46,945						\$0	\$46,945	\$46,945	\$76,956	\$60,311	\$76,93	\$60,3
6.4.6 Prepare a technical memorandum that summarizes the evaluation of the ISMA and a recommended Subsidence Management	10.75	\$19,425						\$0	\$19,425	\$19,425				
Alternative (SMA-2)	4.75	\$9,299						\$120	\$9,419	\$9,419				
6.4.7 Prepare for and conduct a meeting to receive feedback and comments on the draft technical memorandum	4./5		>120											-
Task 7. Meetings and Administration		\$53,813						\$407					\$(
7.2	a 14	\$27,877	\$240					\$240			\$25,838	¥=/=::-	\$0	
	à 3	\$5,857	\$167					\$167					\$0	
7.3 Perform Monthly Project Management	6	\$11,108						\$0					\$0	
7.4 Prepare a Recommended Scope and Budget for the GLMC for FY 2022/23	4.75	\$8,970						\$0	\$8,970	\$8,970	\$8,760	\$210	\$0	\$8,9
										\$627,560	\$427,581	\$199,979	\$91,69:	\$535,8

WEST YOST

Chino Basin Watermaster GLMC Scope and Budget Last Revised: 07-08-21

Task 3. Basin-Wide Ground-Level Monitoring Program (InSAR)

This task involves the annual collection and analysis of Synthetic Aperture Radar (SAR) scenes to estimate the vertical ground motion across the western portion of Chino Basin from March 2021 to March 2022.

As part of the approved scope of services and budget of the GLMC for FY 2020/21, the GLMC directed the Watermaster Engineer to perform a pilot study of the Sentinel-1A InSAR data. The TM documenting the objectives, methods, results, and conclusions and recommendations of the pilot study is included in Attachment A. The conclusions from the pilot study were relied upon in recommending Tasks 3.1 and 3.2 for FY 2021/22.

Task 3.1. Acquire TerraSAR-X SAR Data and Prepare Interferograms for 2021/22

In this subtask, five SAR scenes that will be acquired by the TerraSAR-X satellite from March 2021 to March 2022 are purchased from the German Aerospace Center. General Atomics (formerly Neva Ridge Technologies) will use the SAR scenes to prepare 12 interferograms that describe the incremental and cumulative vertical ground motion that occurred from March 2021 to March 2022 and since 2011. The associated costs for General Atomics to task, acquire, purchase, and process the InSAR data is as follows:

- Task TerraSAR-X for five acquisitions for the western Chino Basin (\$12,000)
- Purchase all TerraSAR-X data (\$17,000)
- Process the purchased TerraSAR-X data (\$56,000)

Task 3.2. Check and Review InSAR Results

In this subtask, the Watermaster Engineer reviews the InSAR results with General Atomics and performs checks for reasonableness and accuracy of the InSAR estimates of vertical ground motion across the western Chino Basin.

Task 4. Perform Ground-Level Surveys

This task involves conducting elevation surveys at benchmark monuments across defined areas of western Chino Basin to estimate the vertical ground motion that occurred since the prior survey. Figure 1 shows the location of the benchmark monuments surveyed across the western Chino Basin. Electronic distance measurements (EDM surveys) are also performed between benchmark monuments to estimate horizontal ground motion in areas where ground fissuring due to differential land subsidence is a concern.

WEST YOST Page 160

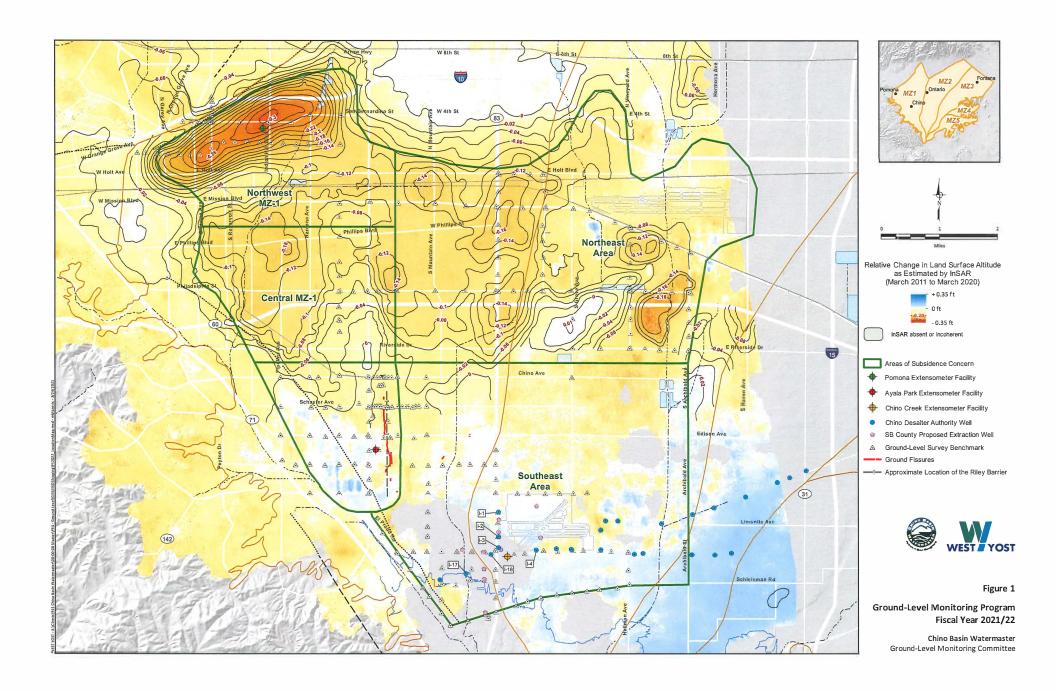


Table 2 documents the areas surveyed over the last five years as part of the GLMP.

Table 2. Ground Level Monitoring	Program Ground-Level Survey	History Over the Last Six Vears
Table 2. Ground Level Monitoring	riogiani Giouna-Level Suive	VIIISTOI V OVEL THE FAST SIX LEALS

Ground-Level Survey Area	Ground-Level Survey Completed (Y/N)?								
	2016	2017	2018	2019	2020	2021 ^(b)			
Managed Area	Υ	N	Υ	N	N	N			
Fissure Zone Area ^(a)	Υ	N	Υ	N	N	N			
Central Area	N	N	N	N	N	N			
Northwest Area	Υ	Υ	Υ	Υ	Υ	Υ			
San Jose Fault Zone Area ^(a)	Υ	Υ	Υ	Υ	Υ	Υ			
Southeast Area	Υ	Υ	Υ	N	N	N			
Northeast Area	N	N	Υ	Υ	Υ	N			

⁽a) Denotes EDM survey area.

The ground-level survey efforts recommended for FY 2021/22 include the following Tasks.

Task 4.1. Conduct Spring-2022 Elevation surveys in Northwest MZ-1

In this subtask, the surveyor conducts elevation and EDM surveys at the established benchmarks in Northwest MZ-1 in Spring 2022. The elevation survey will begin at the Pomona Extensometer Facility and includes benchmarks across Northwest MZ-1. The elevation survey will be referenced to a newly established elevation datum at the Pomona Extensometer.

The vertical elevation survey is recommended in FY 2021/22 because of the recent subsidence that has occurred in Northwest MZ-1 and will support the development of a subsidence management plan in Northwest MZ-1. The EDM survey is **not** recommended to be performed across the San Jose fault zone because the surveys have demonstrated since 2013 that the horizontal strain measured between benchmark pairs appears to behave elastically.

Task 4.3. Conduct Spring-2022 Elevation in the Southeast Area

In this subtask, the surveyor conducts elevation surveys at the established benchmarks in the Southeast Area in Spring 2022. The elevation survey will begin at the Ayala Park Extensometer Facility and will include benchmarks throughout the Southeast Area.

The elevation survey in the Southeast Area is recommended because six Chino Creek Desalter wells (I-1 to I-4, I-17, and I-18) are expected to begin pumping in Summer/Fall 2023 and the InSAR data is largely incoherent across this area (see Figure 1).

Task 4.5. Replace Destroyed Benchmarks (if needed)

In this subtask, the surveyor replaces benchmark monuments that have been destroyed since the last survey, if any.

⁽b) The 2021 ground-level surveys are scheduled to begin in early March 2021.

Task 4.6. Process, Check, and Update Database

In this subtask, the Watermaster Engineer receives and catalogs the survey results provided by the surveyor, prepares the data for display as a GIS layer, and performs checks against InSAR and extensometer data for reasonableness and accuracy.

The ground-level surveys efforts not recommended for FY 2021/22 include the following Tasks.

Task 4.2. Conduct Spring-2021 Elevation Survey in the Northeast Area

This survey is not recommended for FY 2021/22 because heads have been relatively stable or increasing across most of this area and recent ground motion as measured by InSAR and ground-level surveys has been minor in this area.

Task 4.4. Conduct Spring-2021 Elevation and EDM Surveys in the Managed Area/Fissure Zone Area

This survey is not recommended for FY 2021/22 because over the past several years hydraulic heads at PA-10 and PA-7 have increased to their highest levels since implementation of the GLMP in 2003; and, recent ground motion as measured by InSAR, ground-level surveys, and the Ayala Park Extensometer has been minor in this area.

Task 5. Data Analysis and Reporting

Task 5.1. Prepare Draft 2020/21 Annual Report of the Ground-Level Monitoring Committee

Prepare the text, tables, and figures for a draft 2020/21 Annual Report of the GLMC and submit the report to the GLMC by September 24, 2021 for review and comment.

Task 5.2. Prepare Final 2020/21 Annual Report of the Ground-Level Monitoring Committee

Update the text, tables, and figures based on the comments received from the GLMC and prepare a final 2020/21 Annual Report of the GLMC by October 29, 2021. Responses to comments will be included as an appendix to the final report. The report will be included in the agenda packet for the November 2021 Watermaster meetings for approval.

Also, as part of Task 5, Watermaster's Engineer will work with the GLMC to develop concepts for streamlining the Annual Report of the Ground-Level Monitoring Committee and the reporting process for future years. Watermaster's Engineer will present a recommended approach to streamline the report and reporting process to the GLMC, Watermaster's staff, and Watermaster's legal counsel during the scheduled meetings of the GLMC in FY 2021/22.

Task 5.3. Compile and Analyze Data from the 2021/22 Ground-Level Monitoring Program

In this subtask, monitoring data generated from the GLMP during 2021/22 is checked, mapped, charted, and analyzed as the first step in the preparation of the subsequent annual report. Some of the maps, charts, and tables are shared with the GLMC at its meetings in early 2022 during the development of a recommended scope of services and budget for FY 2022/23.

Task 5.4. Conduct Reconnaissance-Level Subsidence Investigation of the Northeast Area

In the Northeast Area, the long- and short-term InSAR estimates indicate that persistent downward ground motion has occurred in a concentrated area south of the Ontario International Airport between Vineyard Avenue and Archibald Avenue. The western edge of this subsiding area exhibits a steep subsidence gradient or "differential subsidence." Subsidence may have occurred in this area in response to declining hydraulic heads, but there is not enough historical hydraulic head data in this area to confirm this relationship. This task will include data collection, review, and analysis of available borehole and lithologic data, pumping and recharge data, high-frequency hydraulic head measurements, and InSAR estimates of vertical ground motion at up to four locations in the southeast part of the Northeast Area. Figures and charts will be prepared to support the data analysis, interpretations, and any recommendations for future investigations and monitoring.

Task 6. Develop a Subsidence-Management Plan for Northwest MZ-1

The 2007 SMP called for ongoing monitoring and data analysis of the Managed Area; including annual reporting and adjustments to the SMP, as warranted by the data. The 2007 SMP also called for expanded monitoring of the aquifer-system and land subsidence in other areas of subsidence and ground fissuring concern. Figure 1 shows the location of these so-called Areas of Subsidence Concern: Central MZ-1, Northwest MZ-1, Northeast Area, and Southeast Area. The expanded monitoring efforts outside of the Managed Area are consistent with the requirements of OBMP Program Element 1 and its implementation plan contained in the Peace Agreement.¹

The 2007 SMP stated that if data from existing monitoring efforts in the Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, the Watermaster would revise the SMP to avoid those adverse impacts. The 2014 Annual Report of the GLMC recommended that the 2007 SMP be updated to better describe the Watermaster's land subsidence efforts and obligations, including areas outside of MZ-1. As such, the update included a name change to the 2015 Chino Basin Subsidence Management Plan (2015 SMP) and a recommendation to develop a subsidence management plan for Northwest MZ 1.

The Watermaster had been monitoring vertical ground motion in Northwest MZ-1 via InSAR during the development of the 2007 SMP. Land subsidence in Northwest MZ-1 was first identified as a concern in 2006 in the MZ-1 Summary Report and again in 2007 in the 2007 SMP. Of particular concern was the occurrence of concentrated differential subsidence across the San Jose Fault in Northwest MZ-1—the same pattern of differential subsidence that occurred in the Managed Area during the time of ground fissuring. Ground fissuring is the main subsidence-related threat to infrastructure. The issue of differential subsidence, and the potential for ground fissuring in Northwest MZ-1, has been discussed at prior GLMC meetings, and the subsidence has been documented and described as a concern in the Watermaster's State of the Basin Reports, the annual reports of the GLMC, and in the *Initial Hydrologic Conceptual Model and Monitoring and Testing Program for the Northwest MZ-1 Area* (WEI, 2017). The Watermaster increased monitoring efforts in Northwest MZ-1 beginning in FY 2012/13 to include ground elevation surveys and electronic distance measurements (EDM) to monitor ground motion and the potential for fissuring.

WEST YOST Page 164

¹ http://www.cbwm.org/rep_legal.htm.

In 2015, the Watermaster's Engineer developed the *Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area* (Work Plan; WEI 2015b).² The Work Plan is characterized as an ongoing Watermaster effort and includes a description of a multi-year scope-of-work, a cost estimate, and an implementation schedule. The Work Plan was included in the 2015 SMP as Appendix B. Implementation of the Work Plan began in July 2015. On an annual basis, the GLMC analyzes the data and information generated by the implementation of the Work Plan. The results and interpretations generated from the analysis are documented in the annual report of the GLMC and used to prepare recommendations for future activities.

The following tasks are recommended for in FY 2021/22 to implement the Work Plan:

Task 6.1. Aquifer-System Monitoring

The established monitoring program of piezometric levels and pumping at wells in Northwest MZ-1 will continue through various techniques, including: 1) SCADA-based monitoring by the Monte Vista Water District; 2) monitoring of piezometric levels via sonar³; 3) monitoring of piezometric levels via pressure transducers at City of Pomona production wells; and 4) manual measurements of piezometric levels. These data, along with data collected from the PX in Task 2.1, will improve the understanding of the hydrogeology in Northwest MZ-1, will be used to develop the Subsidence Management Plan for Northwest MZ-1, and in the future, will be used to adapt the Subsidence Management Plan, as appropriate.

In this subtask, all data is collected, compiled, checked, and analyzed every three months. Charts and data graphics of pumping, piezometric levels, and aquifer-system deformation will be updated to support the data collection and analysis.

Task 6.3. Document the One-Dimensional (1D) Compaction Models at the MVWD-28 and PX Locations

This task will help answer the question: What are the *pre-consolidation stresses* within the compacting intervals of the aquifer-system?

The *pre-consolidation stress* is a piezometric "threshold." When piezometric levels are above the threshold, subsidence is abated. When piezometric levels are below the threshold, subsidence is caused. The determination of *pre-consolidation stress* by aquifer-system layer can provide "guidance" for the Chino Basin parties to manage pumping and recharge to avoid the future occurrence of land subsidence in Northwest MZ-1.

The model calibration results for two 1D compaction models located within the area of maximum subsidence in Northwest MZ-1 (at the MVWD-28 and PX sites) will be used, in combination with other monitoring data, to estimate the current (2018) pre-consolidation stresses by aquifer-system layer for Northwest MZ-1. The 1D compaction models, the calibration results, and the preliminary estimates of the pre-consolidation stress by aquifer-system layer will be presented by the Watermaster Engineer at a GLMC meeting. The Watermaster Engineer will accept verbal feedback and written comments from the GLMC, and then prepare a draft technical memorandum (TM) to document 1D compaction models, the calibration results, and the preliminary estimates of the pre-consolidation stress. Another GLMC meeting will be held to review the draft TM. The GLMC will submit written comments and suggested revisions to the

WEST YOST
Page 165

² Work Plan to Develop a Subsidence-Management Plan for Northwest MZ-1

³ The use of sonar technology to measure piezometric levels in wells in currently being used in Monte Vista Water District wells 28 and 31.

Watermaster Engineer. A final TM will be prepared that incorporates the feedback and comments from the GLMC.

Task 6.4. Refine and Evaluate the Subsidence-Management Alternatives

This task will help answer the question: What are potential methods to manage the land subsidence in Northwest MZ-1?

The 1D compaction models at MVWD-28 and PX will be used to characterize the mechanical response of the aquifer-system to a Baseline Management Alternative (BMA). A draft TM will be prepared that summarizes the evaluation of the BMA, particularly, the ability of the BMA to raise and hold piezometric levels above the estimated pre-consolidation stresses. The draft TM may also include a recommendation for the Initial Subsidence Management Alternative (ISMA) if the BMA is not successful at raising and holding hydraulic heads above the estimated pre-consolidation stresses. The assumptions of the ISMA, including the groundwater production and replenishment plans of the Chino Basin parties, will be described and must be agreed upon by the GLMC. A GLMC meeting will be held to review the model results and evaluation of the BMA, review the recommended ISMA, and to receive feedback on the draft TM.

After the recommended ISMA is agreed upon by the GLMC, the Watermaster's MODFLOW model will be updated to run the ISMA and will be used to estimate the hydraulic head response to the ISMA at the MVWD-28 and PX locations. The projected hydraulic heads generated from the MODFLOW model using the ISMA will be extracted from the MODFLOW model results at the MVWD-28 and PX locations and will be used as input files for both 1D compaction models. The 1D compaction models will then be run to characterize the mechanical response of the aquifer-system to the ISMA at both the MVWD-28 and PX locations.

A draft TM will be prepared that summarizes the evaluation of the ISMA, particularly, the ability of the ISMA to raise and hold piezometric levels above the estimated pre-consolidation stresses. The draft TM may also include a recommendation for a second Subsidence-Management Alternative (SMA-2), if the ISMA is not successful at raising and holding hydraulic heads above the estimated pre-consolidation stresses. The assumptions of the SMA-2, including the groundwater production and replenishment plans of the Chino Basin parties, will be described, and must be agreed upon by the GLMC. A GLMC meeting will be held to review the model results and evaluation of the ISMA, review the recommended SMA-2, and to receive feedback on the TM.

If necessary and recommended by the GLMC, additional subsidence management alternative scenarios may be run in FY 2022/23. It is currently envisioned by the GLMC that, based on the results of the 1D compaction model results, the GLMC may recommend an update to the Watermaster's Subsidence Management Plan in FY 2022/23 to minimize or abate the future occurrence of land subsidence in Northwest MZ-1.

Task 7. Meetings and Administration

Task 7.1. Prepare for and Conduct Four Meetings of the Ground-Level Monitoring Committee

This subtask includes preparing for and conducting four meetings of the GLMC:

- July 2021 Implementation of the GLMP for FY 2021/22
- September 2021 Review the draft 2020/21 Annual Report of the Ground-Level Monitoring Committee

- February 2022 Review the draft recommended scope and budget for FY 2022/23
- March 2022 Review the final recommended scope and budget for FY 2022/23 (if needed)

Task 7.2. Prepare for and Conduct One As-Requested Ad-Hoc Meeting

This subtask includes preparing for and conducting one ad-hoc meeting of the GLMC, as requested by the GLMC or Watermaster staff.

Task 7.3. Perform Monthly Project Management

This subtask includes monthly project administration and management, including staffing, financial and schedule reporting to Watermaster and subcontractor coordination.

Task 7.4. Prepare a Recommended Scope and Budget for the GLMC for FY 2022/23

This subtask includes preparing a draft and final recommended scope of services and budget for FY 2022/23 for the GLMC to support the Watermaster's budgeting process.

Response to GLMC Comments

The comments received from the GLMC as of April 19, 2021 on the, "Recommended Scope of Services and Budget of the Ground-Level Monitoring Committee for Fiscal Year 2021/22" and the Watermaster Engineer's response to comments is documented below.

City of Ontario by Christopher T. Quach

Comment 1 – Scope and Services and Budget (Task 5, Sub-task 5.4)

Ontario is in support of Task 5.4 to begin the subsidence investigation. We agree this seems like the correct initial approach to get ahead of it in relation to the proposed cost and nature of the investigatory work.

Response:

No change has been made to the scope of services or budget.

Comment 2 – Overall Scope and Services and Budget

We currently don't have any other comments on the rest of the proposed budget.

Response:

No change has been made to the scope of services or budget.

City of Chino by Dave Crosley

Comment 1 – Scope and Services and Budget (Tasks 1 through 5 and Task 7)

Chino concurs with recommendations in the GLMP scope and budget for items identified as Tasks 1 through 5 and Task 7. For Task 3, Chino supports acquiring and processing the TerraSAR-X data to continue with the higher level of accuracy these data provide. As Watermaster continues to prove the value of InSAR data for evaluating ground movements, we recommend further evaluation of potential cost savings as certain ground level surveys can be reliably replaced in the future by InSAR. The accuracy of InSAR compared to ground level surveys and the offset in costs should be documented to further support the use of InSAR.

Response:

No change has been made to the scope of services or budget.

Comment 2 - Scope and Services and Budget (Task 6, Sub-task 6.3)

For Task 6, Subtask 6.3, Chino recommends proceeding with use of 1D compaction models at the PX facility and MVWD-28 along with the Chino Basin MODFLOW model for use in developing the subsidence management plan for Northwest MZ-1. It is our opinion that the higher vertical resolution that can be simulated by the 1D compaction models will provide added benefit in the hydrogeologic understanding between aquifer and aquitard responses to changes in groundwater levels within the various aquifers compared to a 3D model where these zones would be averaged over greater aquifer thicknesses. The 1D model simulating the PX facility location will be the most reliable for subsidence management based on the detailed hydrogeologic data that has been collected at this location along with the facility's ongoing ground level monitoring. Establishing a guidance level at this location, where greatest subsidence has been measured by InSAR, should be representative for Northwest MZ-1 just as the guidance level that was developed for the Ayala Park extensometer facility has proven successful for the Managed Area. The extrapolation of hydrogeologic data and associated uncertainties that would be associated with the construction and use of a 3D model has the potential to lose the accuracy needed to successfully simulate aquitard compaction across the entire soil column for groundwater level management planning. It is our opinion that the added cost to develop a 3D subsidence model for Northwest MZ-1 is not warranted at this time.

Response:

The recommended scope of services and budget for sub-task 6.3 has been updated based on the City of Chino's comments and feedback received from the April 1, 2021 meeting GLMC.

Comment 3 – Overall Scope and Services and Budget (Task 6, Sub-task 6.4)

We understand that the scope of Subtask 6.4 is to refine and evaluate possible subsidence management alternatives. There are 20 identified tasks for this scope. While it is not clear how many of these 20 identified tasks can be completed or will be necessary in the next fiscal year, Chino recommends only budgeting through Subtask 6.4.10 at this time. This will bring the evaluation through the development of Subsidence Management Alternative 2 (SMA-2). Evaluation of additional alternatives may be pre-mature at this time as the PX continues to operate and our knowledge of the ground response to groundwater levels continues to improve. Following completion of SMA-2 activities and evaluation by the GLMC, future possible alternatives could be devised for modeling and implementation for future fiscal years.

Response:

The recommended scope of services and budget for sub-task 6.4 has been updated based on the City of Chino's comments.

City of Pomona and Monte Vista Water District by Christopher Coppinger

Comment 1 – Task 1.1. Maintain Extensometer Facilities

Geoscience agrees that site visits for downloads and maintenance should be performed monthly. However, future reports should include fieldnotes or "run sheets" as an appendix to the annual report. It is not clear what maintenance is expected or has been performed in the past. Maintenance requirements may provide data on inherent error in the method and instruments.

Response:

Section 2.1.1 in the Annual Reports of the GLMC list specific maintenance activities performed at the Ayala Park, Chino Creek, and Pomona Extensometer facilities for the reporting year.

Inclusion of field notes as an appendix to the Annual Report should be discussed and recommended by the GLMC.

Comment 2 – Task 2.1. Conduct Quarterly Data Collection from Extensometers; Data Checking and Management

The data download task should overlap with monthly maintenance. Downloads should be occurring with planned site visits.

The cost for task 2.1.4 has increased from the previous year. During the GLMC meetings, WY indicated these increases represented the effort to import extensometer data into the WM database. Access to raw data would allow full review of cost and allow determination of inherent error. Stakeholders should be provided access to the database if they are funding collection of the data and construction of the database.

Response:

Site visits for data download and routine maintenance are performed together. Every effort is made to make field work efficient.

Consistent with the long-standing policy of the Watermaster and the GLMC, all data collected for the GLMP are available to any Party via a Request for Information to the Watermaster.⁴

Comment 3 – Task 3. Basin-Wide Ground-Level Monitoring Program (InSAR)

During the GLMC meetings, Geoscience indicated the review of TerraSAR-X and Sentinel-1A datasets did not support the additional cost of TerraSAR-X data collection. The free TRE Altamira data set showed similar trends as the TerraSAR-X, had better spatial coverage of the Chino Basin than TerraSAR-X, and includes monthly data collection. Additionally, DWR processing and review of the Tre Altamira data set provides additional quality control for the InSAR data.

Since the March GLMC meetings, DWR has modified the SGMA data portal. These modifications have made the Sentinel-1A dataset less accessible. If the Sentinel-1A dataset cannot be reliably obtained, Geoscience recommends continuing InSAR collection as proposed by WY. General Atomic's deliverables should be included in the annual reports as appendices.

Data accessibility should be reviewed next fiscal year and the Sentinel-1A/Tre Altamira dataset adopted once DWR has finalized the data distribution platform.

Response:

Comments noted. The recommendation in this memorandum for the GLMP in FY 2021/22 is to acquire and utilize the TerraSAR-X InSAR estimates of vertical ground motion as provided by General Atomics. The

⁴ http://www.cbwm.org/docs/forms/20120229%20Request%20For%20Information%20Form-PDF%20Form%20Version.pdf

acquisition and use of alternative InSAR datasets in the future can be discussed and recommended by the GLMC in FY 2021/22.

Inclusion of General Atomic's InSAR deliverables as an appendix to the Annual Report should be discussed and recommended by the GLMC. Consistent with the long-standing policy of the Watermaster and the GLMC, all data collected for the GLMP are available to any Party via a Request for Information to the Watermaster.

Comment 4 – Task 4. Perform Ground-Level Surveys

Geoscience recommends that all survey deliverables are included as attachments to provide measurement errors and access to data that stakeholders are paying for.

Geoscience agrees with the recommendations in Tasks 4.1 through 4.5. Task 4.6 includes data processing of the survey deliverables.

Response:

Inclusion of survey deliverables as an appendix to the Annual Report should be discussed and recommended by the GLMC. Consistent with the long-standing policy of the Watermaster and the GLMC, all data collected for the GLMP are available to any Party via a Request for Information to the Watermaster.

Comment 5 – Task 4.6. Process, Check, and Update Database

The person days and subsequent cost seem high for this task. Are surveyors able to provide deliverables in a format that would reduce the level of effort? What data processing is required once the survey deliverables are received?

Response:

The level of effort to conduct the GLMP and the associated cost estimates for time and materials are based on several years of experience in conducting the GLMP. The cost estimates represent conservative, best estimates for time and materials to complete each task.

The surveyors provide the survey deliverables in industry-standard electronic formats.

Once the survey deliverables are received, the following activities are executed to process, check, and update the database:

- Reviewing the surveyor's summary report and results.
- Updating and reviewing the time-series of ground-level elevations by benchmark.
- Corresponding with the surveyor to discuss the results, questions, and other information related to the ground-level survey results.
- Preparing GIS shapefiles showing the benchmark location and ground-level elevation change for various timeperiods.
- Comparing the benchmark ground-level elevation change for various timeperiods against the InSAR results for the same time-periods to check for reasonableness.





Comment 6 – Task 5.3. Compile and Analyze Data from the 2021/22 Ground-Level Monitoring Program

Data compilation is included in each of the data collection tasks. What additional effort is included with this task?

Response:

In this task, the data is exported from the databases and is mapped, charted, reviewed, and analyzed. The information is used to prepare the figures and tables included in the Annual Report. The level of effort and the associated costs are based on several years of experience. The cost estimates represent conservative, best estimates for time and materials to complete the task.

Comment 7 – Task 5.4. Conduct Reconnaissance-Level Subsidence Investigation of the Northeast Area

The data presented does not yet rise to the level of requiring an additional investigation. In prior years, InSAR was incoherent in large parts of the eastern half of the basin. We recommend an additional year of monitoring InSAR data to confirm the trend before committing to further investigation.

Response:

Comment noted. Please see the comments received from the City of Ontario and City of Chino and the responses regarding Task 5.4.

This task has been approved by the Watermaster Board for completion in FY 2021/22.

Comment 8 – Task 6.1. Aquifer System Monitoring

Task 6.1 appears to overlap with data collection efforts in Task 5. The prior year budget should cover data collection and analysis in FY 2020/21, the current proposal should cover FY 2021/22. What additional scope would be included in Task 6.1? Data collection from PX has been included in new maintenance and download tasks.

Response:

There are no "data collection" efforts in Task 5. The data collection efforts proposed in Task 6.1 are specific to wells in the Northwest MZ-1 area. In addition, the data collection efforts proposed in Task 6.1 do not include data collection at the PX, which is included in Task 2.1.

We have revised the text for Task 6.1 for clarity.

Comment 9 – Task 6.3. Document the One-Dimensional (1D) Compaction Models at the MVWD-28 and PX Locations

Geoscience has previously expressed concern with use of 1D models to simulate delayed subsidence (See November 2017 TM entitled Review of "Task 3 and Task 4 of the Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area: Development and Evaluation of Baseline and Initial Subsidence — Management Alternatives" Draft Technical Memorandum by Wildermuth Environmental,

Inc., Dated October 19, 2017). The 1D model of PX utilizes groundwater elevations exported from the five-layer Chino Basin model and subsidence estimated from InSAR data.

Based on the data provided in the March and April meetings, Geoscience recommends limiting the scope of Task 6.3 to documenting the 1D models that have been already prepared. The 1D models should not be utilized for further efforts until documentation has been provided to stakeholders.

Response:

The intent of Task 6.3 is to document the construction and calibration of the 1D compaction models in a technical memorandum. The model calibration results also include estimates of the *pre-consolidation stress* for each model cell. It is appropriate and efficient to describe these model calibration results, in their entirety, to facilitate understanding and discussion within the GLMC on the pre-consolidation stresses in Northwest MZ-1. The technical memorandum for Task 6.3 will go through the standard review and comment process of the GLMC before starting Task 6.4.

Comment 10 - Groundwater Elevation

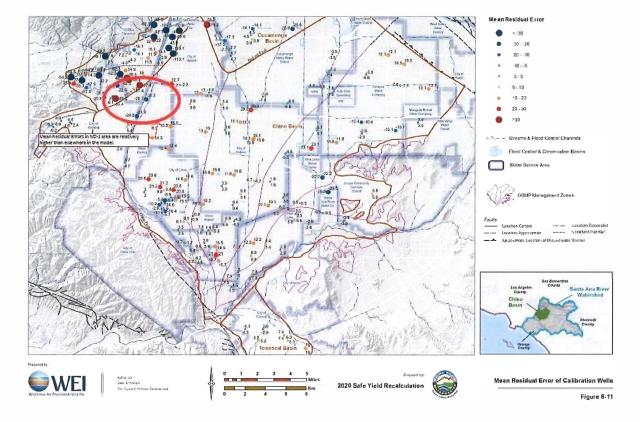
Comments to the 2020 Safe Yield update identified a spatial bias in calibration at the Six Basins/Chino Basin Boundary. At the time, WEI indicated that wells in the area are perforated across multiple layers and that estimated water level would be influenced by head in all layers.

Figure 6-11 "Mean Residual Error of Calibration Wells" from the 2020 Safe Yield Recalculation is reproduced below. The Northwest MZ-1 area shows a high mean residual error relative to other parts of the basin.

The PX facility and the planned extended pumping test will provide layer specific groundwater elevation data. Additional calibration efforts or updates to the conceptual model may be required if predicted water levels in the deep PX completions are not consistent with MODFLOW model predicted water level and model predicted changes in water level.

The TM should provide data on the sensitivity of estimated pre-consolidation stress and other model based subsidence estimates to variation in layer specific model-simulated heads.

WEST YOST Page 172



Response:

In our professional opinion, the Chino Valley Model (CVM) is sufficiently calibrated to be used as input data for the calibration of the 1D models. The CVM exhibits "very good" calibration across the Chino Basin and reproduces the behavior of historical groundwater levels. In Northwest MZ-1, the mean residual errors at wells are higher compared to some other areas of the basin, but are the same as in other areas, and have been deemed acceptable in model calibration and for the use of the model in the Safe Yield Reset. We recently performed an exercise of model validation in Northwest MZ-1 by comparing recently measured heads at the depth-specific PX piezometers (2019-2020) versus model-generated heads by model layer at the PX site at the end of the calibration period (2018).

The head data that is being collected at the PX piezometers will be valuable data for the future recalibrations of the CVM and the 1D model. However, we advise that those recalibration efforts and expenses are best planned for 5-10 years from now, when the data set is long enough to justify the recalibrations.

Sensitivity analyses for the 1D compaction models should be discussed by the GLMC and added to the scope of work if agreed upon by the GLMC.

Comment 11 – InSAR-Estimated subsidence and Model-Simulated Aquifer System Deformation

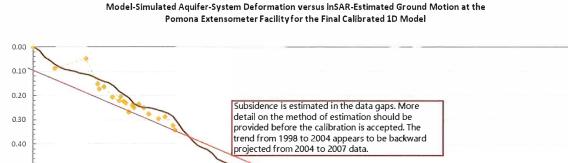
During the March 4 meeting, WY presented InSAR-Estimated subsidence and Model-Simulated Aquifer System Deformation for the PX 1D model. InSAR data gaps were shown, with the InSAR-Estimated Subsidence projected through the data gaps. WY did not provide the method used to estimate subsidence

in the data gap. Additional detail on the method should be provided before the calibration is accepted. The prediction trend appears to be backward projected from September 2004 to late 2007 levels.

If possible, the InSAR data should be compared to land level survey data. GLMC was not conducting ground level surveys in Northwest MZ-1 throughout the 1992 through 2018 period. However, there are Los Angeles County Department of Public Works Survey Division (LADPW) leveling circuits near the PX facility, with the closest benchmark approximately 700 ft away. The LADPW surveys are not conducted to the same accuracy as the GLMC leveling surveys, but the historical data may provide an additional check to InSAR estimated subsidence.

The Model-Simulated deformation vs InSAR-Estimated ground motion figure is reproduced

The Model-Simulated deformation vs InSAR-Estimated ground motion figure is reproduced below.



0.50 Subsidence or Compaction (feet) 0.60 InSAR data gaps 0.70 0.80 0.90 1.00 1.10 PX InSAR-Estimated Subsidence Model-Simulated Aguifer-System Deformation 1.20 1,30 1.40 1.50 Sep-92 Sep-94 Sep-96 Sep-98 Sep-00 Sep-02 Sep-04 Sep-06 Sep-08 Sep-10 Sep-12 Sep-14 Sep-16 Sep-18

Response:

The GSSI comments and questions are not related to the recommended scope of work, but are intended for consideration in constructing, calibrating, and documenting the 1D compaction models at the MVWD-28 and PX locations. The comments are noted.

A description of the methods used to account for gaps in the InSAR record will be included in the technical memorandum for Task 6.3.

The Task 3 and Task 4 of the Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area: Development and Evaluation of Baseline and Initial Subsidence — Management Alternatives, describes the effort by WSP USA (former surveyor for the GLMP) to validate the InSAR-derived estimates of vertical ground motion in Northwest MZ-1 using historical ground-elevation data from repeated leveling surveys performed by the National Geodetic Survey (NGS) and the Metropolitan Water District of Southern California (MWD). At the time of the investigation, the NGS and MWD survey data were the most accurate and best available historical estimates of vertical ground motion in Northwest MZ-1. These estimates were also used to check the reasonableness of the 1D compaction model at MVWD-28, which utilized the InSAR-derived estimates of vertical ground motion at one specific location as calibration targets.

The use of the LADPW survey data referenced by Geoscience should be discussed by the GLMC and added to the scope of work if agreed upon by the GLMC.

Comment 12 - Task 6.4. Refine and Evaluate the Subsidence-Management Alternatives

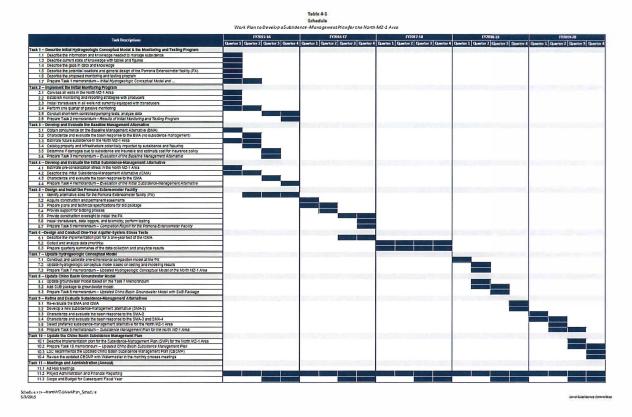
WY proposes using the 1D compaction models to update the Baseline Management Alternative (BMA) and Initial Subsidence Management Alternatives developed in Task 3 and Task 4 of the 2015 work plan.

The 2015 workplan anticipated construction of the PX-1 Facility in FY 2016-17, updates to the conceptual model, and updates to the groundwater model before BMA is revaluated.

Construction of PX-1 was significantly delayed. Development of the deep completions took place in February and March of 2019 according to the Draft Well Completion report (WEI 2020). At the time of this memo, details of the installation of instruments and final completion of the extensometer facility are not available on Watermaster's website. Data presented during the March 4 meeting suggests transducer data has been loaded into Watermaster's database since at least December 2020.

Geoscience recommends that the committee consider the planned data collection and long-term pumping test before the conceptual model is revisited. Significant effort was expended to install a monitoring system in Northwest MZ-1. Data should be collected from the monitoring system to inform the modeling effort.

The 2015 schedule is reproduced below.



Response:

The 2015 workplan is a planning document that described a step-wise plan to develop subsidence management criteria for Northwest MZ-1. However, the workplan and the Subsidence Management Plan also envisioned that the GLMC would analyze the data generated by the monitoring program each year and recommend the logical next steps for the subsequent year(s). For example, the GLMC is now recommending the use of 1D compaction models instead of the SUB package in MODFLOW to develop and test subsidence management strategies.

In our opinion, the CVM and the 1D compaction models are calibrated and ready to be used to estimate the pre-consolidation stress and provide guidance to the Stakeholders on pumping and recharge strategies to avoid the future occurrence of land subsidence in Northwest MZ-1. Continued data collection is also recommended to support future updates and improvements to the CVM and 1D compaction models.

The most prudent path forward is to:

- 1. Utilize the 1D models to develop estimates of the pre-consolidation stress in Northwest MZ-1.
- 2. Utilize the 1D models to test the future pumping and recharge plans of the Parties and estimate the potential for the future occurrence of land subsidence.
- 3. Develop Guidance Criteria to assist all Stakeholders in their groundwater management and water-supply planning efforts, basin-wide.
- 4. Update the Chino Basin Subsidence Management Plan based on the above.
- 5. Continue the monitoring program, including the collection of head and extensometer data at the PX.

6. Utilize the monitoring data in 5-10 years to update the CVM and the 1D models and, potentially, adapt the Guidance Criteria and the Subsidence Management Plan if appropriate.

Comment 13 – Task 7. Meetings and Administration

Geoscience recommends documentation in Task 6.3 be released to allow one of the scheduled meetings to include discussion of the 1D model.

Response:

A draft of the TM for Task 6.3 will be released for review and comment by the GLMC. A GLMC meeting will be held to review the draft TM. A final TM will be prepared that addresses the comments received by the GLMC members. Please see Task 6.3.2 in Table 1 – Work Breakdown Structure and Cost Estimates Ground-Level Monitoring Program: FY 2021/22 (Draft 3).

Comment 14 – Comparison of the Sentinel-1A and TerraSAR-X InSAR datasets across the Chino Basin

WY's review of the Sentinel-1A and TerraSAR-X datasets was provided as an attachment to the FY2021/22 budget. Geoscience has the following comments:

- 1) In prior versions of the SGMA Data Viewer, it appeared that monthly ground motion displacement was provided by DWR. Was WY able to download these data? Are they consistent with WY calculations?
- 2) It appears Sentinel-1A data is collected at twice the frequency as TerraSAR-X data. Is this the case? If so, is there benefit to the more frequent data collection? In 2017 communication regarding other basins, NevaRidge staff indicated more frequent data collection reduced error caused by crop growth and other seasonal activity. Is this still the case?
- 3) The Sentinel-1A data undergoes QC and calibration review by DWR. These efforts are documented and available to stakeholders through the DWR web portal. Is the TerraSAR data subject to the same reviews? Are the reviews available to stakeholders?
- 4) Sentinel-1A data has significantly higher coherence. Is there benefit to InSAR data at the Chino Creek facility?
- 5) Direct subtraction of the displacement rasters would allow a more precise comparison than the side-by-side graphic comparisons.
- 6) Without specifying the accuracies of other sources of data used in this analysis, it is unclear that increased accuracy is necessary. More information is needed to define what accuracy is acceptable and determine if the higher resolution/accuracy of the TerraSAR-X dataset is imperative to identifying risk to infrastructure and calculating better calibration targets for a model.

Geoscience's initial recommendation was to utilize the DWR provided Sentinel-1A data. However, recent changes to the SGMA Data Viewer made the data inaccessible. DWR indicates that the functionality will return shortly. Due to these changes, Geoscience now recommends proceeding with TerraSAR-X data as proposed by WY and reviewing the SGMA data viewer platform in fiscal year 2022/23.

Response:

These comments are noted and can be re-evaluated during the preparation of the *Recommended Scope* of Services and Budget of the Ground-Level Monitoring Committee for Fiscal Year 2022/23, at future GLMC meetings, or at requested ad-hoc meetings with the technical members of the GLMC.

No change has been made to the scope of services or budget (Task 3).

Attachment A

Comparison of the Sentinel-1A and TerraSAR-X InSAR
Datasets Across the Chino Basin





TECHNICAL MEMORANDUM

DATE:

February 26, 2021

Project No.: 941-80-20-21

SENT VIA: EMAIL

TO:

Ground-Level Monitoring Committee

FROM:

Michael Blazevic, PG, CHG

REVIEWED BY:

Andy Malone, PG

SUBJECT:

Comparison of the Sentinel-1A and TerraSAR-X InSAR Datasets Across the Chino Basin

BACKGROUND AND OBJECTIVES

Since the inception of the Ground Level Monitoring Program (GLMP), the Chino Basin Watermaster (Watermaster) has employed various methods to monitor vertical ground motion via extensometers, traditional ground-level surveys, and the remote-sensing technique of Interferometric Synthetic Aperture Radar (InSAR). Analysis of these data over time has shown that InSAR is increasingly a reliable and accurate method for monitoring vertical ground motion across most of the areas of subsidence concern in the Chino Basin for the following reasons:

- Improvements in satellite technology over time have increased the spatial resolution, temporal resolution, and accuracy of InSAR; and
- Land-use changes from agricultural to urban have added hard, consistent radar wave reflectors to the ground surface over time. As such, InSAR results are now coherent and useful across most of the areas of subsidence concern.

For the GLMP, the InSAR-derived estimates of vertical ground motion across the areas of subsidence concern are used by the GLMC to:

- Provide an aerially continuous estimation of the occurrence and magnitude of vertical ground motion across the western Chino Basin over time. Monitoring of vertical ground motion via InSAR since 2006 across the Chino Basin helped identify land subsidence and the pattern of concentrated differential subsidence across the San Jose Fault in Northwest MZ-1.
- Identify areas of differential subsidence. Differential subsidence is sometimes indicative of the
 existence of groundwater barriers (i.e., the Riley Barrier in the Managed Area and the San Jose
 Fault in Northwest MZ-1); hence, the information derived from InSAR has improved the
 hydrogeologic understanding of the groundwater basin.
- Provide calibration data for the computer-simulation modeling of aquifer-system
 deformation and land subsidence across the Chino Basin. Specifically, Watermaster's
 Engineer is updating the Chino Valley Model (CVM) by adding a subsidence package (SUB) to

TM – GLMC February 26, 2021 Page 2

the MODFLOW model so that it can be used to simulate historical and potential future land subsidence across Northwest MZ-1. The SUB package will be calibrated across Northwest MZ-1 using the InSAR estimates of historical vertical ground motion.

Since 2011, the GLMC has chosen to acquire and use a single Synthetic Aperture Radar (SAR) scene from the TerraSAR-X satellite that covers only the western portion of the Chino Basin. This decision was based on:

- Observations that InSAR-derived estimates of ground motion from 1992-2005 indicated that little if any subsidence had occurred within the eastern portion of the basin; and
- The desire to manage costs for the GLMP. However, it has been shown in the Watermaster's State of the Basin Reports (WEI, 2019)¹ that hydraulic heads have decreased across the central and eastern portions of the Chino Basin since about 2005. Subsidence may have occurred in these areas in response to the declining heads, yet these areas have not been monitored for vertical ground motion since 2009.

There is a new satellite that was launched in 2014 by the European Space Agency, Sentinel-1A, that provides InSAR estimates of vertical ground motion across the state of California, including the entire Chino Basin. InSAR estimates of vertical ground motion from Sentinel-1A are freely available from the California's Department of Water Resources (DWR).² As part of the approved scope and budget of the GLMC for FY 2020/21, the GLMC directed the Watermaster Engineer to perform a study comparing the Sentinel-1A and TerraSAR-X InSAR datasets across the Chino Basin. The questions to be answered by the study are:

- Has land subsidence occurred in the eastern portion of Chino Basin during the period 2015 to 2018 as hydraulic heads have declined over this period? If so, what is its magnitude and spatial distribution? Does the GLMC see a concern for land subsidence that would warrant ongoing monitoring of eastern Chino Basin via InSAR?
- Across the western portion of the Chino Basin, how do the estimates of vertical ground motion derived from Sentinel-1A compare with those derived from TerraSAR-X in terms of spatial distribution, magnitude, coherence, and accuracy?
- If the GLMC were to switch to using Sentinel-1A, would the monitoring program be compromised? If so, how?

The purpose of this technical memorandum is to answer these questions and develop recommendations for the GLMC on the potential future uses of the Sentinel-1A and TerraSAR-X InSAR datasets for the GLMP.

METHODS

To answer the questions above, the following methods were used:

¹ West Yost, formerly Wildermuth Environmental, Inc. (2019). Chino Basin Optimum Basin Management Program, 2018 State of the Basin Report.

² SGMA Data Viewer (ca.gov)

TM – GLMC February 26, 2021 Page 3

- Identify, download, and compile the Sentinel-1A moving annual cumulative displacement InSAR rasters for the entire Chino Basin from the DWR over a three-year period between 2015 and 2018.
- Utilize ArcMap's Spatial Analyst extension to extract monthly vertical ground motion displacements from the moving annual cumulative displacement InSAR rasters.
- Compare various aspects of the Sentinel-1A and TerraSAR-X³ estimates of vertical ground motion namely the magnitude of vertical ground motion, coherence, and the spatial resolution of ground motion across the Chino Basin.

RESULTS

Sentinel-1A and TerraSAR-X InSAR Processing Procedures

A brief summary of the InSAR processing procedures used by TRE ALTAMIRA and General Atomics (GA) for the Sentinel-1A and TerraSAR-X InSAR data, respectively, was provided by GA (S. Yarborough, personal communication, January 19, 2021):

Sentinel-1A

- SAR data is processed in large polygons across California. One processing polygon covers the entire Chino Basin.
- Ascending and descending satellite track data are combined to estimate differential vertical ground motion from radar line-of-sight (RLoS) measurements for a given time period.
- Differential vertical ground motion estimates are compared with observations from GPS stations located across California using 100 m radius of motion estimates around each station to derive absolute vertical measurements. For reference, one station is located in the Chino Basin near Rancho Cucamonga.
- Absolute vertical ground motion measurements are projected to 100 m x 100 m grids across each processing polygon and interpolated to regular time intervals (1st day of each month).
 Any voids are filled by spatial interpolation in each processing polygon. Each grid is an average of all measurements within a single 100 m x 100 m grid, located at the grid center.

For a more detailed description of these processes, see TRE ALTAMIRA (2020).⁴

TerraSAR-X

- The approximate InSAR processing footprint extends from Falling Springs (north) to Villa Park (south) and from La Puente (west) to the Ontario International Airport (east).
- Differential vertical ground motion is measured along the RLoS between each radar collection.
- Vertical ground motion offsets resulting from RLoS errors are removed with a combination
 of interferometric processing, and a reference patch in an observed stable location in the
 Chino Basin. The current reference patch is a 750 m x 750 m area, centered approximately

³ The TerraSAR-X InSAR rasters between the time-period 2015 and 2018 were readily available for this study as part of the long-term ground motion monitoring conducted for the GLMP.

⁴ TRE ALTAMIRA (2020). InSAR land surveying and mapping services in support of the DWR SGMA program.

at the intersection of W. Phillips Blvd and S. White Avenue in Pomona, CA. Any vertical motion in the reference patch is assumed to show the constant offset resulting from RLoS errors, and the average value measured across the patch in each differential vertical motion height map is then removed from the vertical motion height map. The normalized differential height maps are then summed to provide a total displacement over the desired time-period.

- Small voids are filled by spatial interpolation in each InSAR frame, providing continuous high-resolution measurements over areas with intermittent signal loss.
- Sequential measurements are summed, providing a normalized total vertical ground motion estimate for a given time period.
- Normalized RLoS measurements are projected to 15 m x 15 m grids. Each grid is an average of all measurements within a single 15 m x 15 m grid, located at the grid center.

Sentinel-1A and TerraSAR-X InSAR Dataset Information

Table 1 lists the basic dataset description and information for the Sentinel-1A and TerraSAR-X InSAR datasets.

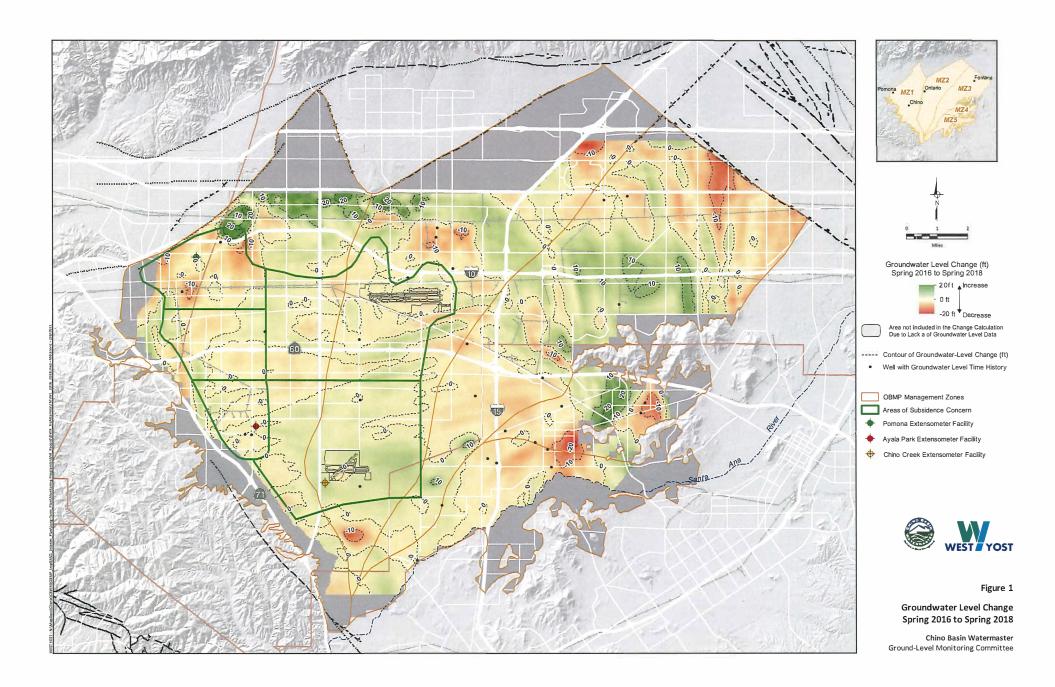
Table 1. Sentinel-1A and TerraSAR-X InSAR Dataset Information							
Dataset Description	Sentinel-1A	TerraSAR-X					
Processor	TRE ALTAMIRA	General Atomics					
Current Availability	June 2015 – September 2019	March 2011 – March 2020					
Current Coverage	Entire Chino Basin	Western Chino Basin					
Current Acquisition Frequency	Monthly	Every Two Months					
Spatial Resolution	100 m	15 m					
Accuracy	+/- 1.6 cm	+/- 0.8 cm					
Cost	Free	\$87,000					

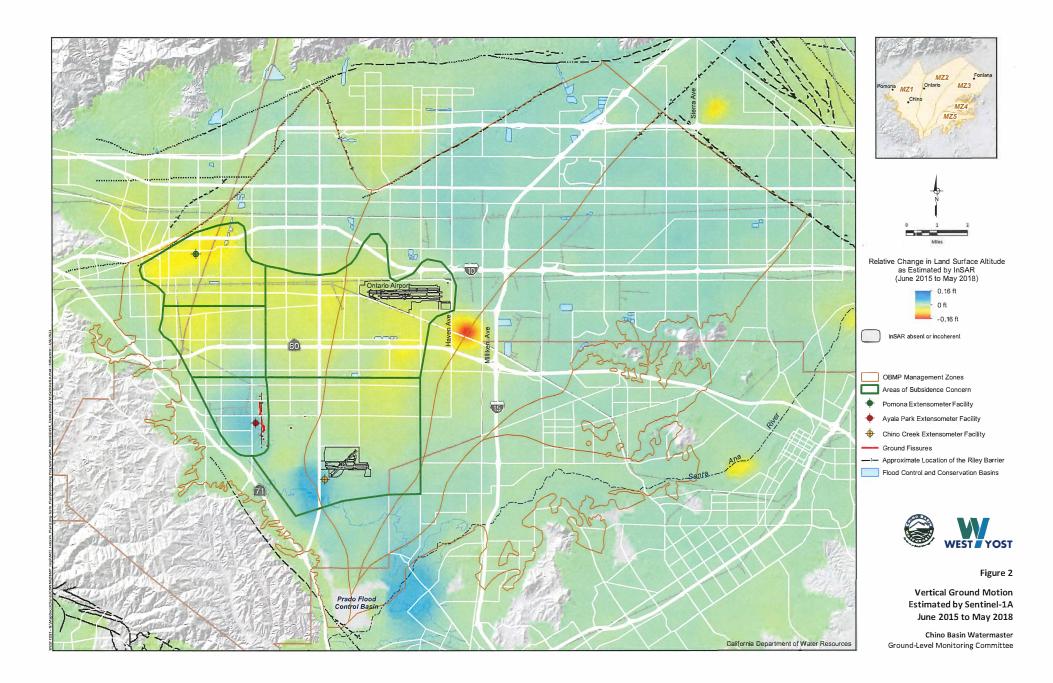
Sentinel-1A and TerraSAR-X InSAR Observations

It has been shown in the Watermaster's State of the Basin Reports (WEI, 2019) that hydraulic heads have decreased across the central and eastern portions of the Chino Basin since about 2005. Subsidence may have occurred in these areas in response to the declining heads, yet these areas have not been monitored for vertical ground motion since 2009. For reference, Figure 1 shows the change in groundwater levels for the two-year period between spring 2016 and spring 2018 across the Chino Basin. Groundwater levels have generally remained stable across most of the areas of subsidence concern but have declined up to 10 ft across parts of Northwest MZ-1. East of the areas of subsidence concern, groundwater levels have decreased in the central and northern portions of the basin by about 10 ft.

Figure 2 shows the total vertical ground motion estimated by the Sentinel-1A between June 2015 and May 2018 across the entire Chino Basin. The main observations from Figure 2 are:

• The InSAR coherence is good across the entire Chino Basin.





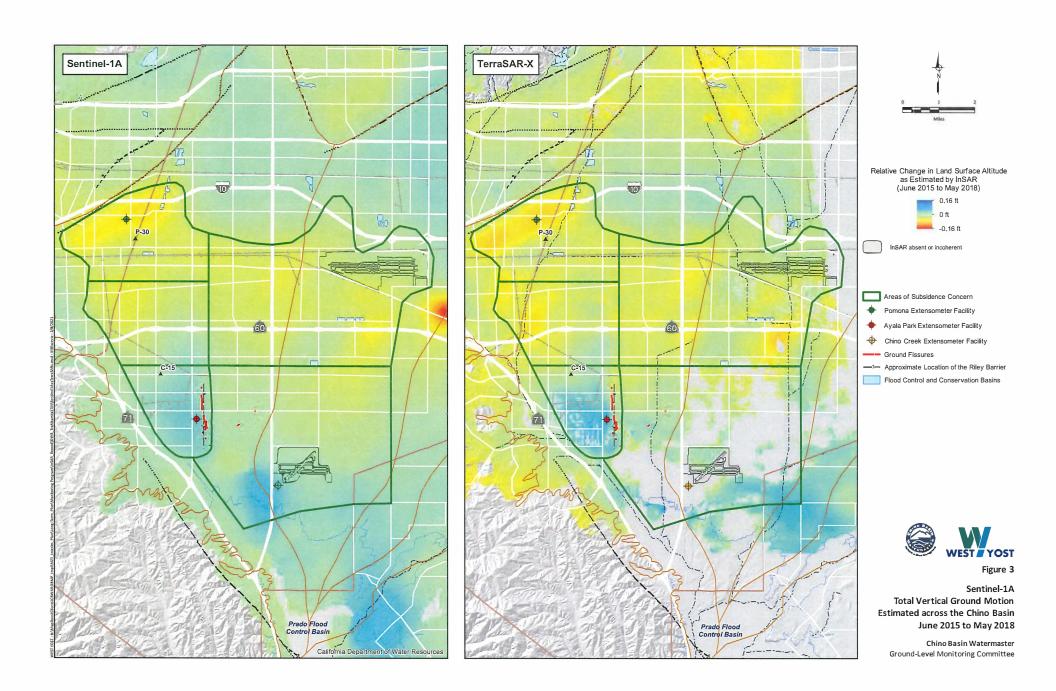
- Estimates of vertical ground motion are mostly downward across the areas of subsidence concern. The spatial pattern of vertical ground motion estimated by the Sentinel-1A is consistent with the long-term ground motion trends measured by the TerraSAR-X and is consistent with the spatial pattern and groundwater level change shown in Figure 1 between 2016 and 2018.
- Estimates of vertical ground motion are mostly upward across the eastern portion of the basin. The spatial pattern of vertical ground motion estimated by Sentinel-1A is not consistent with the spatial pattern and groundwater level change shown in Figure 1 between 2016 and 2018.
- There are focused patterns of vertical ground motion that are not explained by changes in groundwater levels shown in Figure 1. These areas are located just southeast of the Ontario Airport between Haven Avenue and Milliken Avenue, along the Santa Ana River, and just northeast of the intersection of the 210 Fwy and Sierra Avenue. Examination of these areas in Google Earth shows they correspond to recent earthwork construction activities and/or excavation activities.

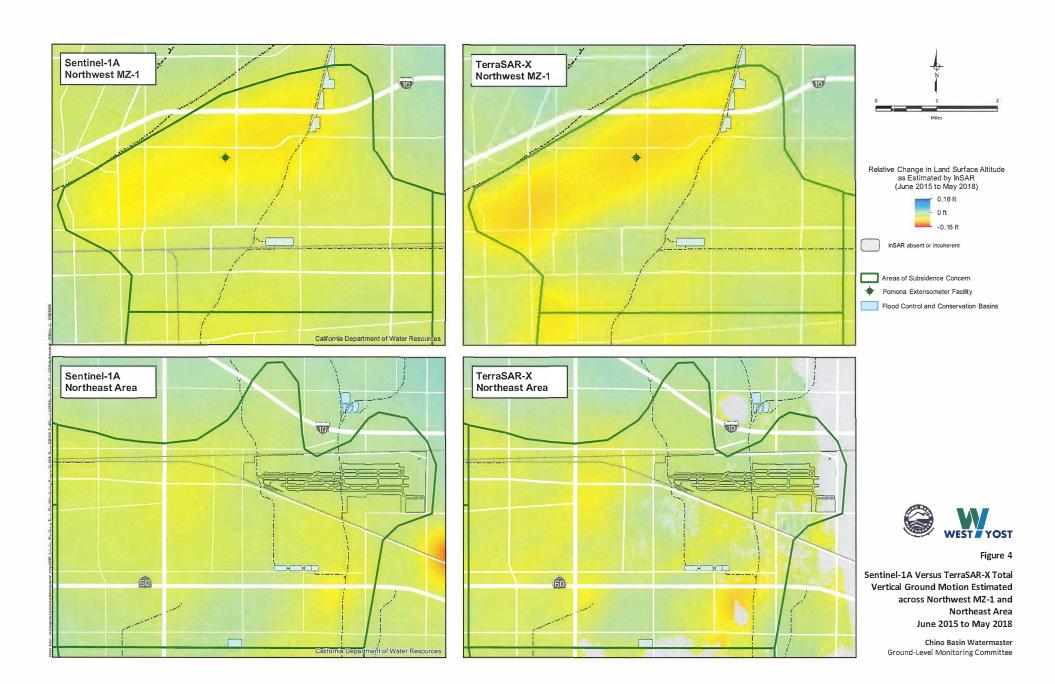
Figures 3 and 4 show total vertical ground motion estimated across the western Chino Basin between June 2015 and May 2018 from Sentinel-1A and TerraSAR-X. Across the areas of subsidence concern, the main observations are:

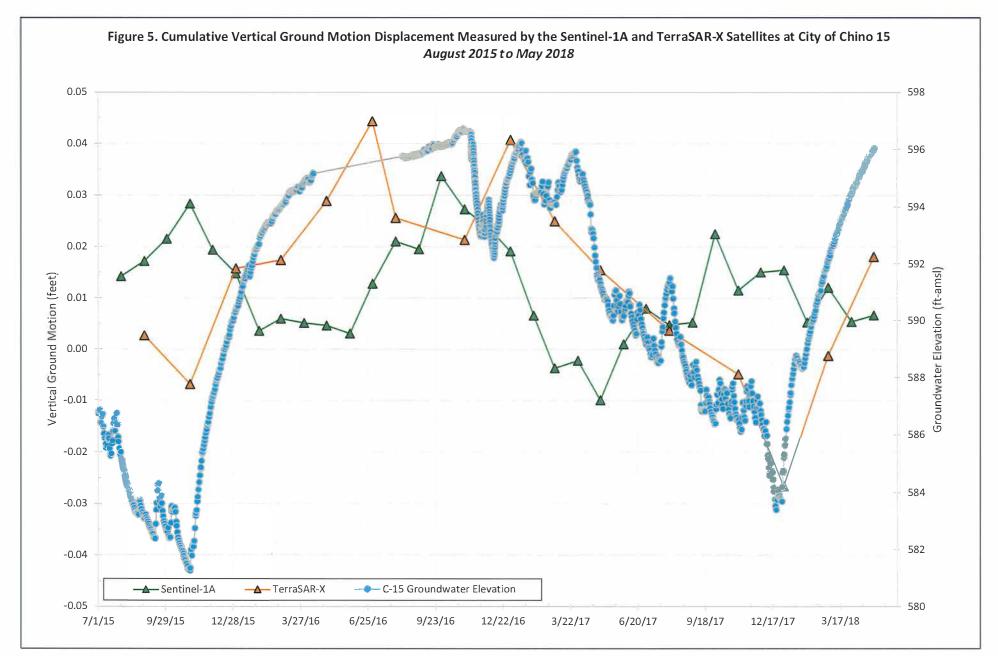
- The spatial pattern of vertical ground motion is generally consistent between the two InSAR datasets.
- Between the two InSAR data sets, the spatial resolution of TerraSAR-X is noticeably better and the spatial details of subsidence are better delineated with TerraSAR-X.
- The magnitudes and directions of ground motion are not always consistent between the Sentinel-1A and TerraSAR-X InSAR datasets. InSAR data from TerraSAR-X across the western portion of Central MZ-1, Northwest MZ-1, and Northeast Area show greater magnitudes of downward vertical ground motion compared to the Sentinel-1A InSAR data. Where TerraSAR-X InSAR data is coherent across the southern part of the Managed Area (near Ayala Park), it shows slightly greater upward ground motion compared to the Sentinel-1A InSAR data. Across other parts of the western Chino Basin, the vertical ground motion magnitude and direction estimated by the two satellites is variable and not consistent.

Figures 5 and 6 are time-series charts that compare the hydraulic heads at C-15 and P-30 to vertical ground motion as measured by Sentinel-1A and TerraSAR-X between 2015 and 2018. For reference, the point locations are shown on Figure 3. The main observations and interpretations from Figures 5 and 6 are:

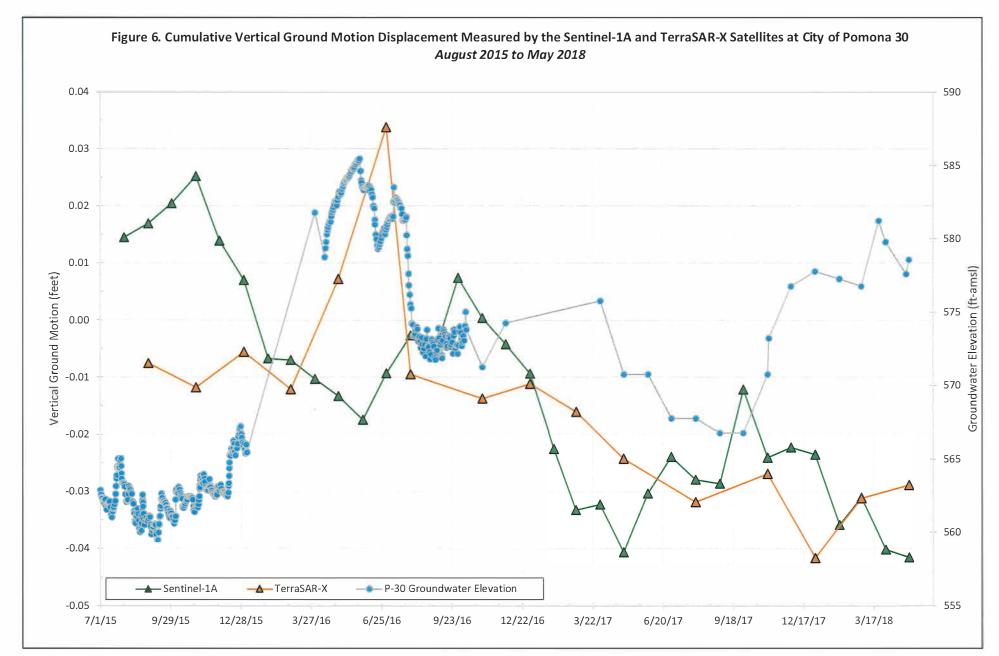
- The Sentinel-1A InSAR data are plotted on a monthly time-step, whereas the TerraSAR-X InSAR data are plotted on a two-month time-step. Because of this, Sentinel-1A InSAR data shows slightly more variability month to month compared to TerraSAR-X InSAR data. Both Sentinel-1A and TerraSAR-X InSAR data generally show a similar pattern of vertical ground motion annually.
- Both Sentinel-1A and TerraSAR-X InSAR data show a persistent downward vertical ground motion trend between 2015 and 2018.
- Sentinel-1A InSAR data shows a consistent pattern of upward ground motion in the fall of each year. This pattern of upward ground motion in the fall of each year is not observed in the TerraSAR-X InSAR data.







WEST YOST



TM – GLMC February 26, 2021 Page 12

- The vertical ground motion magnitudes measured by the two InSAR data sets at each point location is inconsistent.
- The seasonal fluctuations of hydraulic head at C-15 and P-30 are coincident with the seasonal fluctuations of vertical ground motion measured by the TerraSAR-X InSAR data.
- The seasonal fluctuations of hydraulic head at C-15 and P-30 are not coincident with the seasonal fluctuations of vertical ground motion measured by the Sentinel-1A InSAR data. For example, in Figure 5, there are instances where Sentinel-1A estimates upward vertical ground motion but hydraulic head at C-15 is declining or stable.

One explanation for the limited relationship between the hydraulic head at C-15 and P-30 and the vertical ground motion observed with the Sentinel-1A InSAR data is that the Sentinel-1A grid size (100 m) is much larger compared to the TerraSAR-X grid size (15 m). Likewise, the TerraSAR-X accuracy (+/- 8 mm) is twice that of the Sentinel-1A accuracy (+/- 16 mm). A larger grid size and decreased accuracy will smooth-out the ground displacement magnitude over a larger area and produce less accurate ground motion results at specific point locations.

CONCLUSIONS AND RECOMMENDATIONS

Based on the figures, information, and observations discussed above, we summarize the advantages and limitations of both the Sentinel-1A and TerraSAR-X InSAR data sets in Table 2.

The recommendations from this study are:

- The GLMC should continue using TerraSAR-X for the following reasons:
 - TerraSAR-X InSAR data is available at a higher spatial resolution compared to the freely available Sentinel-1A InSAR data. Higher spatial resolution InSAR can better delineate areas of subsidence and better identify areas of differential subsidence. High-resolution InSAR is more appropriate over urban areas, such as the Chino Basin, where the finer detail can identify risk to infrastructure, characterize rapidly developing small features which may lead to ground fissures, and more accurately depict the depth and spatial extent of broad subsidence features.
 - TerraSAR-X InSAR data is purchased at higher vertical accuracy compared to the feely available Sentinel-1A InSAR data. For subsidence model calibration purposes, the TerraSAR-X InSAR data will provide more accurate calibration targets for vertical ground motion compared to the Sentinel-1A InSAR data. The vertical ground motion estimated by TerraSAR-X has shown to be coincidental with changes to hydraulic heads (see Figures 5 and 6). For the areas of subsidence concern, this relationship indicates hydraulic heads, which are controlled by the pumping and recharge stresses in the area, have at least some control on the pattern and rate of subsidence and that the information could be used as management criteria to protect against the future occurrence of land subsidence.
 - TerraSAR-X InSAR data has been collected for the GLMP since 2011. The GLMC is also in the process of developing a Subsidence Management Plan for Northwest MZ-1. To maintain continuity of the InSAR record during development and completion of the Northwest MZ-1 Subsidence Management Plan, it is recommended the GLMC continue

to use TerraSAR-X InSAR data, at least until the Northwest MZ-1 Subsidence Management Plan is completed.

 Based on the spatial pattern of vertical ground motion estimated by Sentinel-1A between 2015 and 2018 across the eastern Chino Basin, there is no immediate need to monitor vertical ground motion across the eastern Chino Basin. The GLMC could evaluate using the freely available Sentinel-1A InSAR data about once every five years to check for vertical ground motion trends across the eastern Chino Basin.

Table 2. Sentinel-1A and TerraSAR-X Advantages and Limitations					
Criteria	Sentinel-1A	TerraSAR-X			
Spatial Coverage	Coverage for the entire Chino Basin.	The GLMP only purchases InSAR for the western Chino Basin.			
Spatial Resolution	Published to the DWR SGMA Data Viewer at a spatial resolution of 100 m.	Processed by GA at a spatial resolution of 15 m.			
Vertical Accuracy	Published to the DWR SGMA Data Viewer at an accuracy of +/- 16 mm.	Processed by GA at an accuracy of +/- 8 mm.			
Acquisition Frequency	Monthly.	Bimonthly (every two months).			
Period of Record	As of December 2020, the InSAR is available for the time-period between June 2015 and September 2020.	The InSAR has been used by the GLMP since 2011 and is currently available through March 2020.			
Continuity	The frequency at which new InSAR scenes will be available through the DWR SGMA Data Viewer is unknown.	The GLMP collects InSAR on a year-round basis in order to maintain continuity in the InSAR record from year-to-year.			
Cost	The InSAR is freely available through the DWR SGMA Data Viewer website. There would be associated costs to download, re-project, and load the rasters to ArcMap for viewing and analysis.	The InSAR is ordered, purchased, and processed by GA each fiscal year. The cost is \$87,000 and includes time by the Watermaster Engineer to review the InSAR deliverables with GA and load the InSAR rasters to ArcMap for viewing and analysis.			

Appendix B

Response to GLMC Comments



STATE OF CALIFORNIA DEPARTMENT/JOHN WOOD GROUP PLC (RICHARD REES, PG, CHG)

Comment 1 - Northeast Area and InSAR

Regarding the InSAR estimated persistent downward ground motion concentrated area south of the Ontario Airport between Vineyard Avenue and Archibald Avenue, this area appears to be in the general vicinity of the Whispering Lakes Golf Course. We suggest reviewing historical aerial photographs of this area for borrow pits that may have been filled in the last five to seven years. Settlement of backfill materials could be interpreted as subsidence.

Response:

Thank you for your comment. In FY 2021/22, we plan to conduct a reconnaissance-level subsidence investigation of the Northeast Area (see Task 5.4 in the technical memorandum, *Recommended Scope of Services and Budget of the Ground-Level Monitoring Committee for Fiscal Year 2021/22*). As part of the investigation, we will include a review of historical aerial photographs and land use changes for the area south of the Ontario Airport between Vineyard Avenue and Archibald Avenue.

CITY OF CHINO/GEOPENTECH (ERIC FORDHAM, PG, CEG, CHG)

Comment 1 – Section 3.1 Managed Area and Figure 3-2

The influence of recycled water use in the Managed area is referenced several times in this section and on the associated figure as it relates to the possible contribution to observed increases in groundwater levels. Though, it is not clear if the influence of recycled water use on increasing groundwater levels is being attributed to its in-lieu use of pumping from the shallow and deep aquifer or due to actual infiltration recharge to the aquifer. Actual wet water recharge would only directly influence groundwater levels in the shallow aquifer. Some additional discussion should be added to clarify this observation.

Response:

Thank you for your comments and suggestions. The text was updated, where appropriate, to address this comment.

Comment 2 - Section 3.4.2 Horizontal Ground Motion

The charts for B-409 to B-408 (N-S Strain), B-407 to B-406 (E-W Strain) and B-406 to B-405 (E-W Strain) show a slight trend with deviations away from 0 of up to about 5x10-5 (L/L) that could be expressing horizontal movement over the monitored time period. While the text explains the deviations as tensile strain that are within the range observed between other benchmarks, some additional explanation for the apparent recorded trends suggesting ongoing movement should be provided.

Response:

Thank you for your comments and suggestions. As stated in the report and comment, tensile strain has been calculated between benchmarks (B-409 to B-408). Its recognized the observed tensile strain may

B-1

Appendix B

Response to GLMC Comments



be real or may be the result of EDM survey noise. Future EDM surveys that cross the San Jose Fault will continue to be conducted at a frequency determined by the GLMC during the scope and budget planning process for FY 2022/23.

Recognize its real tensile strain, or noise.

Comment 3 – Section 4.0 Conclusions and Recommendations

This section should include concluding statements on the adequacy of the current monitoring program to address Program Elements 1 and 4 of the OBMP Implementation Plan that have been implemented within the different management zones. This should be followed with the recommendations for additional studies and planning to further characterize, monitor and plan land subsidence in the various management zones of the Chino Basin.

Response:

Thank you for your comments and suggestions. The text was updated, where appropriate, to address this comment.

MONTE VISTA WATER DISTRICT (JUSTIN SCOTT-COE, GENERAL MANAGER)

Comment 1 - Figure 3-11

During the September 30, 2021 meeting of the GLMC to discuss the draft 2020/21 Annual Report, Mr. Scott-Coe verbally recommended revisions to Figure 3-11. The recommended revisions included adding clarification to the figure's legend items and adding quarterly recharge from Northwest MZ-1 to the figure.

Response:

Figure 3-11 was updated in the final report.

Concord

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Davis

2020 Research Park Drive, Suite 100 Davis CA 95618 530-756-5905

Eugene

1650 W 11th Avenue, Suite 1-A Eugene OR 97402 541-431-1280

Lake Forest

23692 Birtcher Drive Lake Forest CA 92630 949-420-3030

Lake Oswego

5 Centerpointe Drive, Suite 130 Lake Oswego OR 97035 503-451-4500

Oceanside

804 Pier View Way, Suite 100 Oceanside CA 92054 760-795-0365

Olympia

825 Legion Way SE, Suite A6 Olympia WA 98501 360-350-4523

Phoenix

4505 E Chandler Boulevard, Suite 230 Phoenix AZ 85048 602-337-6110

Pleasanton

6800 Koll Center Parkway, Suite 150 Pleasanton CA 94566 925-426-2580

Sacramento

8950 Cal Center Drive, Bldg. 1, Suite 363 Sacramento CA 95826 916-306-2250

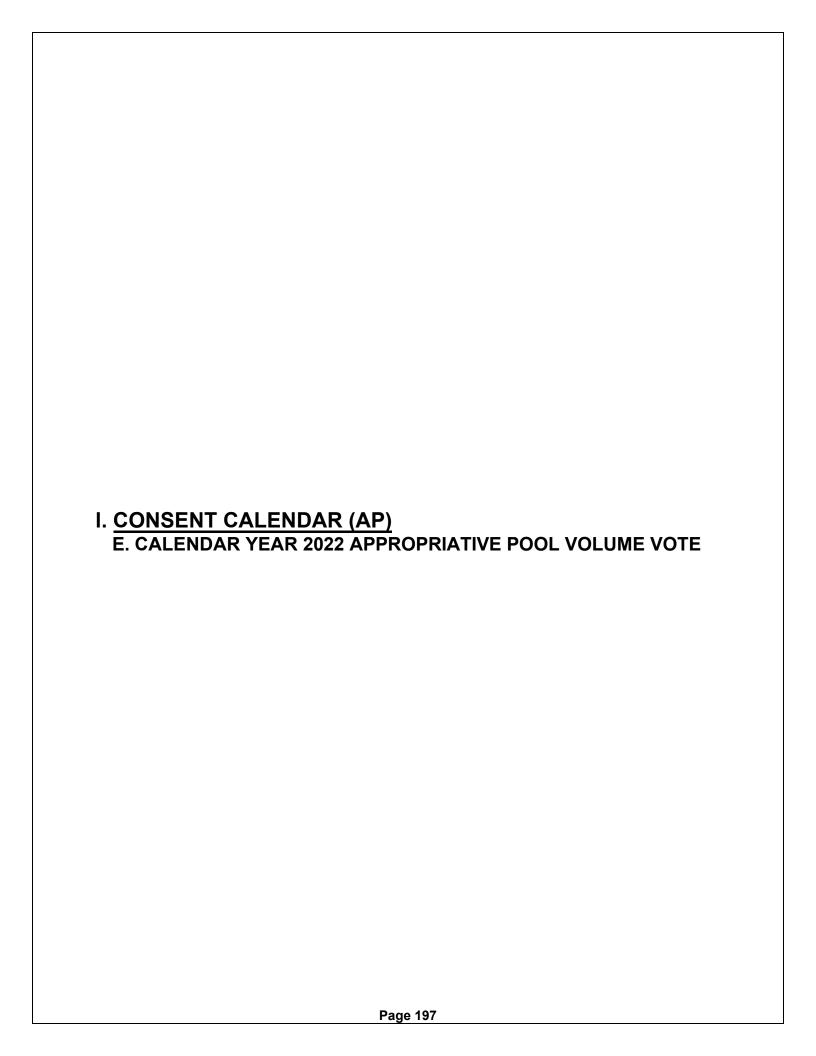
San Diego

11939 Rancho Bernardo Road, Suite 100 San Diego CA 92128 858-505-0075

Santa Rosa

2235 Mercury Way, Suite 105 Santa Rosa CA 95407 707-543-8506







CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP Committee Members

SUBJECT: Calendar Year 2022 Appropriative Pool Committee Volume Vote

(Consent Calendar Item I.E.)

SUMMARY:

<u>Issue</u>: Volume Vote calculations for the new calendar year are performed annually and Parties are allocated a voting percentage.

<u>Recommendation:</u> Approve the Calendar Year 2022 Appropriative Pool Volume Vote as presented, subject to Watermaster Board approval of the FY 2021/22 Assessment Package at the November 18, 2021 meeting.

Financial Impact: None.

Future Consideration

Appropriative Pool - November 10, 2021: Approval

ACTIONS:

Appropriative Pool – November 10, 2021:

BACKGROUND

Following the approval of the Assessment Package each year, Volume Vote calculations for the new calendar year are performed and Parties are allocated a voting percentage. The 2021/2022 Assessment Package is scheduled for Watermaster Board approval on November 18, 2021, and thus the Appropriative Pool Calendar Year 2022 Volume Vote is predicated on that approval.

Pursuant to the Appropriative Pool Pooling Plan, the total voting power on the Pool Committee is 1,000 votes. Of these, 500 votes are allocated based on each Party's percentage of Operating Safe Yield. The remaining 500 votes are allocated proportionally based on production during the preceding year.

DISCUSSION

All Water Activity Reports have now been received, and the Volume Vote has been calculated. Once the Assessment Package is approved, the Volume Vote can be adopted for use during the coming calendar year.

The 2022 Appropriative Pool Volume Vote allocation is attached (Attachment 1). The current year (2021) Volume Vote is also attached for reference (Attachment 2).

ATTACHMENTS

- 1. Calendar Year 2022 Appropriative Pool Volume Vote
- 2. Current Year 2021 Appropriative Pool Volume Vote



Chino Basin Watermaster 2022 Appropriative Pool Volume Vote

Assessment Year 2021-2022 (Production Year 2020-2021)

	Assessable Production		Share of Safe Yield		TOTAL VOLUME VOTE		
	Acre-Ft	Percentage	Votes	Acre-Ft	Votes	Non-Minor	Minor
BlueTriton Brands, Inc.	271.3	0.369%	1.847	0.0	0.000		1.847
CalMat Co. (Appropriative)	0.0	0.000%	0.000	0.0	0.000		0.000
Chino Hills, City Of	2,459.6	3.350%	16.750	1,572.5	19.255	36.004	
Chino, City Of	2,762.4	3.762%	18.811	3,004.2	36.785	55.596	
Cucamonga Valley Water District	5,725.7	7.798%	38.991	2,695.5	33.005	71.996	
Fontana Union Water Company	0.0	0.000%	0.000	4,760.0	58.285	58.285	
Fontana Water Company	11,065.3	15.070%	75.352	0.8	0.010	75.362	
Fontana, City Of	0.0	0.000%	0.000	0.0	0.000		0.000
Golden State Water Company	1,074.4	1.463%	7.316	306.3	3.750		11.066
Jurupa Community Services District	10,609.9	14.450%	72.251	1,535.0	18.795	91.046	
Marygold Mutual Water Company	840.9	1.145%	5.726	488.0	5.975		11.701
Monte Vista Irrigation Company	0.0	0.000%	0.000	503.9	6.170		6.170
Monte Vista Water District	7,523.3	10.246%	51.232	3,592.2	43.985	95.217	
NCL Co, LLC	0.0	0.000%	0.000	0.0	0.000		0.000
Niagara Bottling, LLC	1,751.7	2.386%	11.928	0.0	0.000		11.928
Nicholson Family Trust	0.0	0.000%	0.000	2.9	0.035		0.035
Norco, City Of	0.0	0.000%	0.000	150.3	1.840		1.840
Ontario, City Of	17,171.1	23.386%	116.931	8,469.8	103.710	220.641	
Pomona, City Of	9,192.2	12.519%	62.596	8,352.2	102.270	164.866	
San Antonio Water Company	676.5	0.921%	4.607	1,122.1	13.740		18.347
San Bernardino, County of (Shooting Park)	17.2	0.023%	0.117	0.0	0.000		0.117
Santa Ana River Water Company	175.5	0.239%	1.195	969.0	11.865		13.060
Upland, City Of	2,107.0	2.870%	14.348	2,124.2	26.010	40.358	
West End Consolidated Water Co	0.0	0.000%	0.000	705.6	8.640		8.640
West Valley Water District	0.0	0.000%	0.000	479.8	5.875		5.875
TOTAL	73,423.9	100.000%	500.000	40,834.0	500.000	909.373	90.627
						1,000.000	



Chino Basin Watermaster 2021 Appropriative Pool Volume Vote

Assessment Year 2020-2021 (Production Year 2019-2020)

	Assessable Production		on	Share of Sa	afe Yield	TOTAL VOLUME VOTE		
	Acre-Ft	Percentage	Votes	Acre-Ft	Votes	Non-Minor	Minor	
Arrowhead Mtn Spring Water Co	279.1	0.399%	1.996	0.0	0.000		1.996	
CalMat Co. (Appropriative)	0.0	0.000%	0.000	0.0	0.000		0.000	
Chino Hills, City Of	1,409.0	2.015%	10.076	1,726.6	19.255	29.331		
Chino, City Of	2,196.2	3.141%	15.705	3,298.4	36.785	52.490		
Cucamonga Valley Water District	5,920.6	8.468%	42.339	2,959.5	33.005	75.344		
Fontana Union Water Company	0.0	0.000%	0.000	5,226.3	58.285	58.285		
Fontana Water Company	10,426.8	14.913%	74.563	0.9	0.010	74.573		
Fontana, City Of	0.0	0.000%	0.000	0.0	0.000		0.000	
Golden State Water Company	640.0	0.915%	4.577	336.3	3.750		8.327	
Jurupa Community Services District	12,241.6	17.508%	87.541	1,685.3	18.795	106.336		
Marygold Mutual Water Company	860.2	1.230%	6.152	535.8	5.975		12.127	
Monte Vista Irrigation Company	0.0	0.000%	0.000	553.3	6.170		6.170	
Monte Vista Water District	6,568.2	9.394%	46.970	3,944.0	43.985	90.955		
NCL Co, LLC	0.0	0.000%	0.000	0.0	0.000		0.000	
Niagara Bottling, LLC	1,759.9	2.517%	12.585	0.0	0.000		12.585	
Nicholson Family Trust	0.0	0.000%	0.000	3.1	0.035		0.035	
Norco, City Of	0.0	0.000%	0.000	165.0	1.840		1.840	
Ontario, City Of	13,920.4	19.909%	99.547	9,299.5	103.710	203.257		
Pomona, City Of	10,551.2	15.091%	75.453	9,170.3	102.270	177.723		
San Antonio Water Company	614.4	0.879%	4.394	1,232.0	13.740		18.134	
San Bernardino, County of (Shooting Park)	7.5	0.011%	0.054	0.0	0.000		0.054	
Santa Ana River Water Company	142.6	0.204%	1.020	1,063.9	11.865		12.885	
Upland, City Of	2,381.2	3.406%	17.028	2,332.3	26.010	43.038		
West End Consolidated Water Co	0.0	0.000%	0.000	774.7	8.640		8.640	
West Valley Water District	0.0	0.000%	0.000	526.8	5.875		5.875	
TOTAL	69,919.0	100.000%	500.000	44,834.0	500.000	911.333	88.667	
						1,000.0	000	

Page 201

I. <u>BUSINESS ITEMS - ROUTINE (ONAP)</u> E. CALENDAR YEAR 2022 NON-AGRICULTURAL POOL VOLUME VOTE	
Page 202	



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: ONAP Committee Members

SUBJECT: Calendar Year 2022 Overlying (Non-Agricultural) Pool Volume Vote

(Routine Business Item I.E.)

SUMMARY:

<u>Issue</u>: Following the approval of the Assessment Package each year, Volume Vote calculations for the new Calendar Year are performed and Parties are allocated a voting percentage.

<u>Recommendation:</u> Receive and file the Calendar Year 2022 Overlying (Non-Agricultural) Pool Volume Vote as presented, subject to Watermaster Board approval of the 2021/22 Assessment Package at the November 18, 2021 meeting.

Financial Impact: None.

Future Consideration

Non-Agricultural Pool - November 10, 2021: Receive and file

ACTIONS:

Non-Agricultural Pool – Date:

BACKGROUND

The Overlying (Non-Agricultural) Pool Volume Vote is updated, and Parties are allocated a voting percentage following the approval of the Assessment Package each year. The 2021/2022 Assessment Package is scheduled for Watermaster Board approval on November 18, 2021, and thus the Calendar Year 2022 Overlying (Non-Agricultural) Pool Volume Vote is predicated on that approval.

The total voting power on the Pool Committee is 1,484 votes. Of these, 742 votes are to be allocated based on one vote for each ten acre-feet or fraction thereof of Safe Yield. The remaining 742 votes are allocated proportionally based on production during the preceding year.

DISCUSSION

Occasionally due to water transfers, if each Party is given one vote for each ten acre-feet of fraction thereof of Safe Yield, the total for that portion of the Volume Vote is 743 rather than 742. The logical solution to address this is to pro-rata reduce the 743 votes down to 742 votes; this is the same methodology that has been used in recent years. Please note that this approach has a very minor effect on each Party's vote.

The 2022 Overlying (Non-Agricultural) Pool Volume Vote allocation is attached (Attachment 1). The current year (2021) Volume Vote is also attached for reference (Attachment 2).

ATTACHMENTS

- 1. Calendar Year 2022 Overlying (Non-Agricultural) Pool Volume Vote Basis
- 2. Current Year 2021 Overlying (Non-Agricultural) Pool Volume Vote Basis

	Asse	ssable Producti	on	Shar	TOTAL		
	Acre-Ft	Percentage	Votes	Acre- Ft	WV Realloc	Votes	VOLUME VOTE
9W Halo Western OpCo L.P.	28.5	0.732%	5.429	18.8	0.0	2.000	7.429
ANG II (Multi) LLC	0.0	0.000%	0.000	0.0	0.0	0.000	0.000
California Speedway Corporation	388.3	9.963%	73.927	1,000.0	2.1	101.000	174.927
California Steel Industries, Inc.	1,301.8	33.403%	247.849	1,615.1	3.4	162.000	409.849
CalMat Co.	0.0	0.000%	0.000	0.0	0.0	0.000	0.000
CCG Ontario, LLC	0.0	0.000%	0.000	0.0	0.0	0.000	0.000
City of Ontario (Non-Ag)	1,608.4	41.268%	306.207	3,920.6	8.4	393.000	699.207
County of San Bernardino (Non-Ag)	72.6	1.863%	13.825	133.9	0.3	14.000	27.825
General Electric Company	0.0	0.000%	0.000	0.0	0.0	0.000	0.000
Hamner Park Associates, a California Limited Partnership	323.4	8.298%	61.573	464.2	1.0	47.000	108.573
Linde Inc.	0.0	0.000%	0.000	1.0	0.0	1.000	1.000
Monte Vista Water District (Non-Ag)	22.1	0.567%	4.207	50.0	0.1	6.000	10.207
Riboli Family and San Antonio Winery, Inc.	43.2	1.109%	8.231	0.0	0.0	0.000	8.231
Space Center Mira Loma, Inc.	93.7	2.404%	17.841	104.1	0.2	11.000	28.841
TAMCO	15.3	0.392%	2.910	42.6	0.1	5.000	7.910
West Venture Development Company	0.0	0.000%	0.000	0.0	0.0	0.000	0.000
TOTAL	3,897.4	100.000%	742.000	7,350.3	15.7	742.000	1,484.000

	Asse	ssable Producti	on	Sh	TOTAL VOLUME		
	Acre-Ft	Percentage	Votes	Acre-Ft	WV Realloc	Votes	VOLUME
9W Halo Western OpCo L.P. ^{1, 2}	26.329	0.734%	5.448	18.789	0.040	2.000	7.448
ANG II (Multi) LLC 1, 3	0.000	0.000%	0.000	0.000	0.000	0.000	0.000
Aqua Capital Management LP	0.000	0.000%	0.000	0.000	0.000	0.000	0.000
California Speedway Corporation	427.483	11.920%	88.449	1,000.000	2.130	101.000	189.449
California Steel Industries, Inc.	1,065.035	29.698%	220.363	1,615.137	3.440	162.000	382.363
CalMat Co.	0.000	0.000%	0.000	0.000	0.000	0.000	0.000
CCG Ontario, LLC	0.000	0.000%	0.000	0.000	0.000	0.000	0.000
City of Ontario (Non-Ag)	1,552.657	43.296%	321.255	3,920.567	8.351	393.000	714.255
County of San Bernardino (Non-Ag)	39.995	1.115%	8.275	133.870	0.285	14.000	22.275
General Electric Company	4.895	0.136%	1.013	0.000	0.000	0.000	1.013
Hamner Park Associates, a California Limited Partnership	314.842	8.779%	65.143	464.240	0.989	47.000	112.143
Linde Inc.	0.000	0.000%	0.000	1.000	0.002	1.000	1.000
Monte Vista Water District (Non-Ag)	15.778	0.440%	3.265	50.000	0.107	6.000	9.265
Riboli Family and San Antonio Winery, Inc.	25.569	0.713%	5.290	0.000	0.000	0.000	5.290
Space Center Mira Loma, Inc.	93.708	2.613%	19.389	104.121	0.222	11.000	30.389
ТАМСО	19.868	0.554%	4.111	42.619	0.091	5.000	9.111
West Venture Development Company	0.000	0.000%	0.000	0.000	0.000	0.000	0.000
TOTAL	3,586.159	100.000%	742.000	7,350.343	15.657	742.000	1,484.000

¹ In the early 1980's, Southern Service Company sold their operations to Angelica Textile Services, Inc. but retained the ownership to the property and water rights. At the same time, the property and water rights were leased to Angelica Textile Services, Inc.

² In 2017, Angelica Textile Services, Inc. filed for bankruptcy and subsequently sold all of its assets to 9W Halo Western OpCo L.P. As a result, 9W Halo Western OpCo L.P. became the successor to Angelica Textile Services, Inc. under the lease with ANG II (Multi) LLC.

³ ANG II (Multi) LLC acquired the property and water rights from Southern Service Company on March 25, 2010. Simultaneously, the property and water rights were then leased to Angelica Textile Services, Inc., and subsequently to 9W Halo Western OpCo L.P. in 2017.

II. <u>BUSINESS ITEMS</u> A. FISCAL YEAR 2021/22 SCOPE AND METHODOLOGY UPDATE (DISCUS	D BUDGET FOR THE SAFE YIELD SSION ONLY)



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Fiscal Year 2021/22 Scope and Budget for The Safe Yield Reset Methodology Update

(Business Item II.A.)

SUMMARY:

<u>Issue</u>: A scope and budget to perform the Safe Yield Reset Methodology Update needs to be approved

Recommendation: Discussion only

<u>Financial Impact:</u> A budget amendment for \$86,504 is required and will be brought for consideration as a separate item.

Future Consideration

Appropriative Pool – November 10, 2021: Discussion only Non-Agricultural Pool – November 10, 2021: Discussion only Agricultural Pool – November 10, 2021: Discussion only Advisory Committee – November 18, 2021: Discussion only Watermaster Board – November 18, 2021: Discussion only

ACTIONS:

Appropriative Pool - July 8, 2021: No Action - Discussion only Non-Agricultural Pool - July 8, 2021: No Action - Discussion only Agricultural Pool - July 8, 2021: No Action - Discussion only

Advisory Committee - July 15, 2021: Approved FY 2021/22 Budget Amendment for the Safe Yield Reset Methodology as

amended by Mr. Harder's letter dated 7/13/21 with the understanding that further dialogue will continue between the Pool Committees and Watermaster to potentially refine scope/budget as needed and brought back through the Watermaster process in September 2021. The motion was passed with 80 votes in favor.

Watermaster Board - July 22, 2021: Adopt the \$276,761 budget amendment (Form A-21-07-02) approved by the Advisory Committee; direct staff to work with the Advisory Committee members toward resolution by the Advisory Committee within four weeks, or August 19, 2021; and provide direction to Legal Counsel to prepare a filing seeking the Court's direction as to the propriety of the inclusion of items [1] - [4] in the FY 2021/22 budget and to file a such a motion with the Court seeking the Court's direction if items [1] - [3] are not resolved and item [4] is not clarified and agreed to by August 19, 2021.

Advisory Committee - August 19, 2021: Approved Fiscal Year 2021/22 Budget Amendment (Form A-21-08-01)

Watermaster Board - September 23, 2021: Unanimously adopted Fiscal Year 2021/22 Budget Amendment (Form A-21-08-01)

Appropriative Pool - November 10, 2021: Non-Agricultural Pool - November 10, 2021:

Agricultural Pool - November 10, 2021:

Advisory Committee - November 18, 2021:

Watermaster Board - November 18, 2021:

BACKGROUND

Administration, enforcement, and implementation of the Judgment are within the Watermaster Board's duties and powers and include making recommendations to the Court regarding the Safe Yield of the Chino Basin. Watermaster maintains its model (Chino Valley Model, or CVM) for the purpose of evaluation of basin Safe Yield, among other studies.

The April 28, 2017 Court Order provides in part (pages 15-18, incorporated into the Watermaster Rules & Regulations as Section 6.5) the methodology to be used for future resets of the Safe Yield and that Watermaster may supplement the Safe Yield Reset methodology to incorporate future advances in best management practices and hydrologic science with the recommendation and advice of the Pool Committees and Advisory Committee; additionally the Order provides for annual data collection and evaluation, an update of the CVM, and peer review of the same.

Comments have been received from parties that the Safe Yield Reset methodology should incorporate advances in hydrologic science by characterizing and addressing uncertainty in the CVM (April 23, 2020 Comment Letter from the Appropriative Pool; June 15, 2020 City of Chino Opposition to Watermaster's Motion regarding 2020 Safe Yield Reset).

Watermaster adhered to the Court-ordered Safe Yield Reset methodology during the 2020 Safe Yield Reset. At the same time Watermaster's Engineer agreed that it would be beneficial to consider methods to characterize and quantify model uncertainty in a potential update the Safe Yield Reset methodology. Watermaster proposes to proceed with developing these methods to update the Safe Yield Reset methodology in advance of the upcoming Safe Yield Reset evaluation which is to be completed by June 30, 2025 (April 28, 2017 Court Order, page 17; Watermaster Rules & Regulations, § 6.5(f)).

Watermaster staff presented the approach to update the Safe Yield Reset methodology, supported by a review process by the Parties, in August 2020, and informed the Watermaster Board. Watermaster staff included the effort in the proposed FY 2021/22 Watermaster budget, and presented the budget and schedule on March 23, 2021, and again during budget workshops in April and May.

Watermaster's proposed Engineering budget to perform the work (Task 7614) had an overall budget of \$378,811 split between three subtasks:1

- 1. Update Safe Yield methodology (pursuant to Watermaster Rules & Regulations, § 6.5(d))
- 2. Annual data collection and evaluation (pursuant to Watermaster Rules & Regulations, § 6.5(e))
- 3. Support the peer review process (pursuant to Watermaster Rules & Regulations, § 6.5(g))

The Advisory Committee approved the overall Watermaster budget in May 2021 as presented, without two items, including Task 7614. The Advisory Committee action requested that those two items be brought back through the Watermaster process within two months. In May, the Watermaster Board adopted the budget as approved by the Advisory Committee and directed staff to take amendments for the two excluded items back to Advisory Committee in June.

In June, the Appropriative Pool hired Mr. Thomas Harder of Thomas Harder & Company to review the proposed scope and budget for Task 7614 and provide feedback to the Watermaster Engineer (West Yost). On July 13, 2021, the Appropriative Pool legal counsel transmitted to Watermaster the written comments from Mr. Harder.

After carefully reviewing the written comments from the Appropriative Pool's consultant, Watermaster concluded that no changes to the scope and budget (\$378,811) of Task 7614 were advisable. Watermaster

¹ A more detailed description of Task 7614 and the subtask descriptions can be found in Watermaster's latest Engineering budget narrative.

responses to comments were prepared, distributed, and discussed with the Advisory Committee on July 15, 2021.

Since Task 7614 was not approved as part of the overall budget approved by the Advisory Committee in May 2021, a budget amendment was necessary for the work to be funded. The Advisory Committee voted to approve the FY 2021/22 Budget Amendment for Task 7614 as amended by the comments in Mr. Harder's letter dated 7/13/21, with the understanding that the approval is an incremental approval so some of the work can begin. The Advisory Committee committed to further dialogue to refine the scope/budget as needed and the disputed subtasks be brought back through the Watermaster process in September 2021. The budget amendment approved by the Advisory Committee was \$276,761.

At the Watermaster Board meeting on July 22, 2021, staff was directed to work with the Advisory Committee towards a resolution by August 19, 2021. The Advisory Committee approved a budget amendment for \$8.247.

DISCUSSION

Watermaster staff's opinion is that the methods to characterize and quantify model uncertainty need to be evaluated to potentially update the Safe Yield Reset methodology, and this work should be done in advance of the required 2025 Safe Yield evaluation. The original schedule to complete the update of the Safe Yield Reset methodology indicated that the work needed to begin in July 2021 to have the updated methodology approved by the Court to facilitate the timely undertaking of the 2025 Safe Yield recalculation effort. As the current scope and budget were not approved until August 2021, the work to update the Safe Yield methodology was not initiated until September 2021.

In accordance with the scope and budget amendment that the Advisory Committee approved on August 19, 2021 Watermaster hosted a technical workshop with Watermaster's Engineer on October 26 to discuss conceptual approaches to characterize and address uncertainty in the recalculation of the Safe Yield. Watermaster's Engineer collected the feedback received at the meeting, prepared responses, and developed a supplemental scope of work and budget to continue the process to update the Safe Yield Reset methodology. Attachment 1 includes the proposed supplemental scope and budget and the Engineer's responses to the feedback from the peer review meeting.

ATTACHMENTS

 Supplemental Scope and Budget for Fiscal Year 2021/22 Task 7614: Support Implementation of the Safe Yield Court Order October 29, 2021 Project No.: 941-80-21-68

SENT VIA: EMAIL

Peter Kavounas, PE General Manager Chino Basin Watermaster Rancho Cucamonga, CA 91730

SUBJECT: Supplemental Scope and Budget for Fiscal Year 2021/2022 Task 7614: Support Implementation of the Safe Yield Court Order

Dear Mr. Kavounas:

On September 23, 2021, the Board of the Chino Basin Watermaster (Watermaster) approved a budget amendment for Task 7614 (Support Implementation of the Safe Yield Court Order) for the 2021/2022 fiscal year Engineering Budget. Watermaster's Engineer (West Yost) wrote a letter describing the budget amendment approved on September 23, 2021. This budget amendment was prepared following a meeting on August 3, 2021 between Watermaster, West Yost, and representatives of the Appropriative Pool (Thomas Harder and Ron Craig). The Appropriative Pool hired Mr. Harder to review the proposed scope and budget for Task 7614 and provide feedback to the Watermaster Engineer and the Appropriative Pool. The August 3rd meeting resulted in agreement on the following regarding certain subtasks of Task 7614 to update the update the Safe Yield (SY) Reset methodology:

- A peer review meeting should be conducted following the effort to define the initial conceptual
 approaches to address the various sources of modeling uncertainty. This peer review meeting
 will allow the technical representatives of the Parties to provide feedback on the sources of
 uncertainty that should be addressed and the nature of the effort necessary to address them.
- Following the initial peer review meeting, West Yost will prepare responses to the comments in the peer review meeting and conduct a brief follow-up meeting if necessary.
- Once the peer review comments have been addressed, West Yost will develop a supplemental scope and budget for the process to define and document the proposed approaches to address model uncertainty. The supplemental scope will be outside of the approved scope and budget (i.e., the current budget as of September 23, 2021) for the task to update the Safe Yield Reset

¹ This letter is Attachment 1 to Watermaster's Staff Report for Agenda item I.A. of the August 19, 2021 Advisory Committee meeting's package: <u>link</u>

methodology. Watermaster will introduce this supplemental scope and budget as a budget amendment to be approved through the Watermaster process.

• The timely review and approval of the supplemental scope and budget is vital to meeting the deadline to recalculate the Safe Yield as set by the Court.

The current budget reflects the above points. On October 26, 2021, Watermaster hosted a peer review meeting where West Yost and technical representatives of the Parties discussed initial conceptual approaches to address various sources of modeling uncertainty which were documented in an initial technical memorandum (TM1).² The feedback from the peer review meeting is summarized and discussed below.

COMMENTS AND RESPONSES FROM THE OCTOBER 26, 2021 PEER REVIEW MEETING

The peer review meeting was attended in person by four technical representatives of the Parties,³ as well as staff from Watermaster and West Yost. There were over 20 virtual attendees. The following is a summary of the major feedback from the peer review committee and our responses:

 Comment: Ensure that the process to develop and implement the updated SY Reset methodology be cost-effective. Quantifying and addressing uncertainty in the updated SY Reset methodology should remain focused on adding value to the SY calculation to inform better management and understanding of risks.

Response: We agree. A comparison of costs and benefits of several potential SY Reset methodologies will be presented in a technical memorandum (see Task 1.16 in Exhibit A) that will be circulated for peer review.

 Comment: Uncertainty in historical data does not need to be considered in the update of the SY Reset methodology

Response: We agree. We will not include tasks to characterize or quantify the uncertainty in historical data in the updated SY Reset methodology.

3) **Comment**: In the uncertainty analysis, indicate which sources of uncertainty are related to one another.

Response: This comment was covered to the extent possible in the peer review meeting presentation. Beyond the general relationships between uncertainties discussed in the peer review meeting, a detailed quantification of the relationships between sources of uncertainty can be described in the ultimate implementation of the updated SY Reset methodology.

² TM1 can be found on the Watermaster website: link

³ Technical representatives were the following: Thomas Harder (Thomas Harder and Company), Jim Van de Water (Thomas Harder and Company), Richard Rees (State of California), and Bill Schwartz (Monte Vista Water District)

4) **Comment**: Instead of a Monte Carlo analysis to quantify the uncertainty of Chino Valley Model (CVM) model parameters, consider using PESTPP-IES⁴ to improve the efficiency of this process.

Response: Thank you for the suggestion. We will consider the use of PESTPP-IES in the development of the updated SY Reset methodology.

5) **Comment**: If West Yost chooses a subset of parameter values with which to conduct an uncertainty analysis (using either Monte Carlo or PESTPP-IES), then justification for choosing the parameters and the boundaries that are applied to the chosen parameters should be provided.

Response: We agree. Parameters will be chosen following the sensitivity analysis in the future recalibration of the model necessary to implement the updated SY Reset methodology. We will provide thorough detail and references in the documentation of any of the choices of parameters and/or parameter boundaries we choose in the uncertainty analysis. This documentation will be presented for peer review.

6) **Comment**: If practical and depending on the process and method chosen to quantify the uncertainty of model parameters, develop a unit cost for addressing each parameter to aid in the understanding of the costs and benefits of a more detailed uncertainty analysis.

Response: A transparent comparison of costs and benefits of several potential updated SY Reset methodologies will be presented in a technical memorandum that will be circulated for peer review. This comment will be considered when developing this cost analysis for the methods to quantify the uncertainty of model parameters. This comment will also be considered in more detail when developing a scope and budget for the implementation of the updated methodology.

- 7) Multiple comments regarding how to handle future climate projections:
 - a) Comment: Recommend using the California Department of Water Resources (DWR) change factors for future climate. These are already implemented in the CVM and are the standard practice across the State. The range of change factors that the DWR provided should be used to simulate the range of future climate scenarios. Using alternative gridded climate datasets from the updated climate models should only be considered if the added cost is minimal.

Response: Noted. The supplemental scope and budget will include efforts to perform a high-level comparison of the costs and benefits of various approaches using the climate data sets that are currently available.

b) Comment: Recommend using the latest climate projection data in the SY Reset methodology. Not using the latest climate projections risks missing updates that may be important to the SY Reset.

Response: See response above.

8) **Comment**: Consider the uncertainty of losses from municipal water supply systems in the uncertainty analysis.

⁴ White, J.T. (2018). A model-independent iterative ensemble smoother for efficient history-matching and uncertainty quantification in very high dimensions. Environmental Modelling & Software (109): 191-201.

Response: Noted. In 2018, at the request of Watermaster, Wildermuth Environmental investigated the feasibility of quantifying the magnitude and location of municipal supply system losses (system losses) and potential applications in the Chino Basin groundwater model. Wildermuth Environmental concluded that it was not practical to include system losses in the Chino Basin groundwater model due to the lack of information available to quantify the magnitude and location of the system losses that reach the groundwater table. That said, the CVM is a well-calibrated model, hence, system losses are implicitly included in the calibrated estimates of total recharge to the Chino Basin. Since system losses are not a specific recharge component in the CVM, it is not appropriate to include them in the uncertainty analysis.

9) **Comment**: West Yost should compare actual water supply and demands to past projections to determine how they compare and use this comparison to quantify the uncertainty in these projections.

Response: As part of Task 2 and 3 of Task 7614, West Yost is beginning an annual process to collect and evaluate historical data. This effort includes a comparison of historical data to the projections used in the 2020 Safe Yield Recalculation Report. West Yost will consider these comparisons in the uncertainty analysis of water supply and demand projections. Beginning on November 16, 2021, Watermaster will be facilitating several workshops to present and discuss the findings of this effort. These workshops are open to all, and we invite your input.

REVISED NARRATIVE AND SECOND BUDGET AMENDMENT

The technical representatives at the peer review meeting did not request a follow-up meeting. West Yost has developed a supplemental scope and budget to augment Task 1 to include the steps necessary to propose an updated SY Reset methodology, incorporating the feedback from the peer review meeting. A breakdown of the revised subtasks and budget for Task 7614 with the supplemental scope and budget, including a comparison to the original and adopted budgets, is included as Exhibit A. The supplemental scope comprises the following subtasks:

- Subtask 1.07: West Yost will complete a survey of the state-of-the-art approaches to address the sources of uncertainty identified in TM1 (i.e., model parameters, water supply/demand projections, and climate projections). This will include the alternative approaches and datasets suggested in the peer review meeting (comments 4 and 7 above). West Yost will determine the applicability and value of these approaches to the SY Reset. West Yost will choose up to three approaches for each source of uncertainty to define in the next step.
- Subtask 1.10: West Yost will define a method for each of the approaches selected in the prior subtask. Each method will consist of detailed steps for implementation and application of the models for the SY Reset.
- Subtask 1.13: West Yost will quantify the feasibility of the methods defined in the previous subtask. This will involve the following steps: 1) testing out the chosen methods and amending them as needed; 2) determining the necessary computational capabilities to implement the methods (e.g., parallel computing); 3) developing a general analysis of costs (e.g., staff time, computational resources) and /benefits for each of the proposed methods. Steps 1 and 2 pertain to parameter uncertainty only. These estimates will aid in a comparison and selection of a preferred updated SY Reset methodology.

- Subtasks 1.14 and 1.15: West Yost will document the findings in subtasks 1.07, 1.10, and 1.13 in
 a technical memorandum, which will be reviewed with Watermaster staff. This technical
 memorandum will serve as a foundation for the initial technical memorandum presenting the
 proposed SY Reset methodologies in Subtask 1.16.
- The cost estimate for this supplemental scope is \$86,504.

In addition to the revised scope and budget, we have updated the budget narrative as shown in Exhibit B. Please contact me if you have any questions on the supplemental scope and budget. Thank you for the opportunity to contribute to this important work.

Sincerely, WEST YOST

Garrett Rapp, PE Associate Engineer RCE #86007

Lauren Sather, PhD

Staff Scientist

Eric Chiang, PhD Principal Engineer

W.W. C

Andy Malone, PG Principal Geologist

EML

Exhibit A: Comparison of Subtasks and Budgets for Task 7614

Exhibit B: Revised Engineering Budget Narrative for Task 7614

Exhibit A

Comparison of Subtasks and Budgets for Task 7614

Exhibit A. Comparison of Subtasks and Budgets for Task 7614: Support Implementation of the Safe Yield Court Order

					Estimated Fee		
Subtask Number	Subtask Description	o	riginal Budget Proposal	July 22, 2021 Adopted Budget	September 23, 2021 Adopted Budget	Proposed Second Budget Amendment	Total Budget with Proposed Second Budget Amendment
1.01	Define initial conceptual approaches to address modeling uncertainty	\$	16,136	\$ 16,136	\$ 19,040		\$ 19,040
1.02	Prepare internal TM based on findings in previous subtask	\$	7,038		\$ 7,818		\$ 7,818
1.03	Review TM with WM staff	\$	1,778	\$ 1,778	\$ 1,778		\$ 1,778
1.04	Revise and finalize TM, send to Watermaster Parties				\$ 4,280		\$ 4,280
3.01	Prepare powerpoint presentation and agenda for peer review scoping workshop				\$ 3,014		\$ 3,014
3.02	Review powerpoint with WM staff				\$ 1,778		\$ 1,778
3.03	Revise and finalize powerpoint				\$ 1,507		\$ 1,507
	Conduct peer review scoping workshop				\$ 3,656		\$ 3,656
1.05	Prepare responses to peer review comments and develop supplemental scope and budget				\$ 5,594		\$ 5,594
3.05	Review responses to peer review comments and proposed supplemental scope and budget with WM staff				\$ 1,778		\$ 1,778
1.06	Finalize responses to comments and supplemental scope/budget for refining the proposed methodology in a TM				\$ 3,280		\$ 3,280
1.07	Complete survey of state-of-the-art approaches to address sources of uncertainty identified in TM	\$	26,024			\$ 18,792	\$ 18,792
1.08	Prepare internal TM documenting survey and comparison of approaches as they relate to the Chino Basin Safe Yield	\$	13,012			\$ -	\$ -
1.09	Review TM with WM staff	\$	1,778	\$ 1,778		\$ -	\$ -
1.10	Define methods for addressing uncertainty and implementation approaches to recalculate Safe Yield	\$	21,080	\$ 21,080		\$ 18,012	\$ 18,012
1.11	Prepare internal TM documenting alternatives developed in prior subtask	\$	10,218	\$ 10,218		\$ -	\$ -
1.12	Review TM with WM staff	\$	3,556	\$ 3,556		\$ -	\$ -
1.13	Quantify feasibility of proposed approaches	\$	34,204			\$ 29,144	\$ 29,144
1.14	Prepare internal TM documenting findings from prior subtasks ¹	\$	8,766			\$ 17,000	\$ 17,000
	Review TM with WM staff ¹	\$	1,778	\$ 1,778		\$ 3,556	\$ 3,556
1.16	Prepare draft methodology TM #1 for peer review	\$	15,408	\$ 15,408	\$ 15,408		\$ 15,408
	Review TM with WM staff	\$	3,556	\$ 3,556	\$ 3,556		\$ 3,556
1.18	Revise and finalize TM, send to Watermaster Parties	Ś	4,582	\$ 4,582	\$ 4,582		\$ 4,582
	Prepare powerpoint presentation and agenda for first peer review workshops	\$	6,028		\$ 6,028		\$ 6,028
3.07	Review powerpoints with WM staff	Ś	1,778	\$ 1.778	\$ 1.778		\$ 1,778
	Revise and finalize powerpoint	\$	2,743		\$ 2,743		\$ 2,743
	Conduct peer review workshops #1/2	Ś	7,612	\$ 7,612	\$ 7,612		\$ 7,612
	Prepare draft responses to peer review comments	\$	4,034		\$ 4,034		\$ 4,034
	Review responses with WM staff ²	Ś	3,556	\$ 3,556	\$ 1.778		\$ 1,778
1.21	Finalize responses to peer review comments	\$	3,014	\$ 3,014	\$ 3,014		\$ 3,014
2.01	Inventory existing data and typical data needs from Parties	Ś	1,962	\$ 1,962	\$ 1,962		\$ 1,962
	Collect and tabulate data from AP Parties' 2020 UWMPs	\$	15,016		\$ 15,016		\$ 15,016
	Coordinate with WM staff for stakeholder meetings	Ś	5,634		\$ 5,634		\$ 5,634
	Prepare materials for stakeholder meetings	\$	14,643		\$ 14,643		\$ 14,643
	Conduct stakeholder meetings/workshops	\$	16,216		\$ 16,216		\$ 16,216
	Debrief with WM staff after stakeholder meetings	Ś	4,487		\$ 4,487		\$ 4,487
	Coordinate with WM to develop documentation on groundwater pumping records and estimates	Ť	, -	,	, , , , ,		, -
	Collect current land use data and associated supporting data and information	Ś	11,960	\$ 11,960	\$ 11,960		\$ 11,960
	Compare current land use data to projections from 2020 SYR	Ś	11,008	,	\$ 11,008		\$ 11,008
	Prepare technical memorandum characterizing land use data	Ś	10,816	\$ 10,816	\$ 10,816		\$ 10,816
	Collect data on water use practices	Ś	9,448	\$ 9,448	\$ 9,448		\$ 9,448
	Prepare exhibits and text characterizing water use data	Ś	6,828	\$ 6,828	\$ 6,828		\$ 6,828
	Collect groundwater pumping data		-,	7 0,020	7 2,020		7 0,020
	Prepare exhibits and text comparing historical groundwater pumping to past projections	\$	9.036		\$ 9,036		\$ 9,036
	Collect data to update status of regional water infrastructure	Ś	6,760	\$ 6,760	\$ 6,760		\$ 6,760
	Prepare exhibits and text to describe regional infrastructure	Ś	6,318		\$ 6,318		\$ 6,318
	Develop draft report	Ś	24,128		\$ 24,128		\$ 24,128
	Prepare for and conduct peer review meetings on report	Ś	5,782		\$ 5,782		\$ 5,782
	Respond to comments on report	\$	3,956		\$ 3,956		\$ 3,956
	Complete final report	\$	5,216				\$ 5,216
	Project management	\$	11.918		\$ 11.918		\$ 11.918
	roject management	1 2	11,310	7 11,310	7 11,310	I .	7 11,718

¹ In the original budget proposal, the TM and meeting in Subtasks 1.14 and 1.15 only covered the results of Task 1.13. In the second budget amendment, Subtasks 1.14 and 1.15 cover the results of Subtasks 1.07, 1.10, and 1.13.

² An arithmetic error in the original budget resulted in an overestimate of the original budget for this subtask. The first budget amendment includes an adjustment for the error.

Exhibit B

Revised Engineering Budget Narrative for Task 7614

7614³² – PE8/9: Storage Management/Conjunctive Use

Support Implementation of the Safe Yield Court Order

	Cost Estimate
Consultant Labor	\$369,492
Other Direct Costs	\$2,200
Total	\$371,692

Rationale

The Safe Yield of the Chino Basin was recalculated in May 2020 pursuant to the methodology approved by the Court on April 28, 2017. The Court adopted a Safe Yield of 131,000 acre-feet per year for the period of fiscal year 2020/21 through 2029/30. The Court-approved methodology was outlined in a Court Order from April 28, 2017. The Court Order also included the following requirements, listed below verbatim:

- 4.4 Safe Yield Reset Methodology. The Safe Yield has been reset effective July 1, 2010 and shall be subsequently evaluated pursuant to the methodology set forth in the Reset Technical Memorandum [2013 Chino Basin Groundwater Model Update and Recalculation of Safe Yield Pursuant to the Peace Agreement (WEI, 2015)]. [...] In furtherance of the goal of maximizing the beneficial use of the waters of the Chino Basin, Watermaster, with the recommendation and advice of the Pools and Advisory Committee, may supplement the Reset Technical Memorandum's methodology to incorporate future advances in best management practices and hydrologic science as they evolve over the term of this order.
- 4.5 Annual Data Collection and Evaluation. In support of its obligations to undertake the reset in accordance with the Reset Technical Memorandum and this order, Watermaster shall annually undertake the following actions:
 - Ensure that, unless a Party to the Judgment is excluded from reporting, all production by all Parties to the Judgment is metered, reported, and reflected in Watermaster's approved Assessment Packages;
 - b. Collect data concerning cultural conditions annually with cultural conditions including, but not limited to, land use, water use practices, production, and facilities for the production, generation, storage, recharge, treatment, or transmission of water;
 - c. Evaluate potential need for prudent management discretion to avoid or mitigate undesirable results including, but not limited to, subsidence, water quality degradation, and unreasonable pump lifts. Where evaluation of available data suggests that there has been or will be a material change from existing and projected conditions or threatened undesirable results, then a more significant evaluation, including modeling, as described in the Reset Technical Memorandum, will be undertaken; and,
 - d. As part of its regular budgeting process, develop a budget for the annual data collection, data evaluation, and any scheduled modeling efforts, including the methodology for the allocation of expenses among the Parties to the Judgment. Such budget development shall be consistent with section 5.4(a) of the Peace Agreement.
- 4.6 Modeling. Watermaster shall use the Basin Model to be updated and a model evaluation of the Safe Yield, in a manner consistent with the Reset Technical Memorandum, to be initiated no later than January 1, 2024, in order to ensure that the same may be completed by June 30, 2025.

³² New Watermaster account for FY 2021/22.





• 4.7 – Peer Review. The Pools shall be provided with reasonable opportunity, no less frequently than annually, for peer review of the collection of data and the application of data collected in regard to the activities described in Paragraphs 4.4, 4.5, and 4.6 above.

Scope of Work

The Consultant drafted a proposed process to comply with Paragraphs 4.4 through 4.7 of the Court Order, which was presented for comment to the Pools and Advisory Committee in August 2020. Following the tasks and schedule outlined in this process, the following work will be performed in fiscal year 2021/22:

- Task 1 Update Safe Yield methodology. Pursuant to Paragraph 4.4 of the Court Order, the Consultant will
 update the methodology based on the state-of-the-art and comments provided during the 2020 SYR and
 reset process. This is assumed to take place from September 1, 2021 through April 30, 2022. The scope of
 Task 1 assumes the following:
 - The Consultant will define various sources of modeling uncertainty that should be considered and addressed in the updated Safe Yield methodology. The Consultant will develop a technical memorandum (TM) outlining these sources and related questions necessary to answer when updating the Safe Yield methodology. The Consultant will submit the TM to the Parties for review and comment.
 - The Consultant will conduct a peer review meeting (included in Task 3) to discuss the content of the TM described above. The Consultant will gather feedback from the peer review committee to inform the development of a process to define the proposed approaches to address the sources of model uncertainty in the Safe Yield methodology update. The Consultant will prepare responses to the comments from the peer review meeting and conduct a brief follow-up meeting if necessary.
 - After the comments from the first peer review meeting have been addressed, the Consultant will develop a supplemental scope and budget for the process to define and document the proposed approaches to address model uncertainty. The supplemental scope will be outside of the approved scope and budget for Task 1. Watermaster will introduce this supplemental scope and budget as a budget amendment to be approved through the Watermaster process.
 - The supplemental scope includes the following intermediate steps: 1) completing a survey of the state-of-the-art approaches to address the sources of uncertainty; 2) defining a method to implement each of the selected approaches, and 3) quantifying the feasibility of the defined methods. The Consultant will document the results of these steps in an internal TM, which will be reviewed with Watermaster staff.
 - Pursuant to the findings of the work conducted within the supplemental scope, the Consultant will prepare a draft and final TM describing the proposed methodology and associated technical work, including the steps, cost, and schedule to implement it. It is assumed that responding to comments will not involve additional computational experiments or any significant changes to the initial proposed methodology. The draft TM will be completed by April 30, 2022, and the TM is expected to be finalized in fiscal year 2022/23 after Task 3 is complete.
 - o Feedback on the methodology will be obtained through the Peer Review process in Task 3.
- Task 2 Annual data collection and evaluation. Pursuant to Paragraph 4.5 of the Court Order, Task 2 includes collecting data from the Parties and other sources and analyzing the data in the context of the Consultant's groundwater modeling. Data collection will begin on July 1, 2021 for fiscal year 2020/21. The scope of Task 2 assumes the following:
 - Existing data collection efforts (e.g., groundwater pumping measurements) will be collected via other Watermaster efforts and are not included in this scope.





- The consultant will follow the data collection and evaluation process described in the proposed process to comply with Paragraphs 4.4 through 4.7 of the Court Order that was presented to the Pools and Advisory Committee in August 2020.
- The Consultant will develop exhibits to compare the collected data to previous historical and modeling data as necessary to document the data collection in an annual report and present the data to the Peer Review committee as part of Task 3.
- The Consultant will prepare a draft and final data collection report. The draft report will be reviewed with the Peer Review committee, comments will be incorporated, and the final report will be submitted to the Court no later than June 30, 2022.
- Task 3 Support Peer Review Process. Pursuant to Paragraph 4.7 of the Court Order, Task 3 includes support to Watermaster staff in conducting peer review meetings. The scope of Task 3 assumes the following:
 - The Safe Yield methodology review will be conducted pursuant to Paragraph 4.7 of the Court Order and the steps outlined in Task 1.
 - One half-day peer review meeting will be conducted within the first several months of fiscal year 2021/22 to gather feedback on the sources of uncertainty that should be considered in the updated Safe Yield methodology. This will assist the developing a scope and budget to refine the proposed updated methodology.
 - The review of the draft updated methodology will be done in multiple half-day technical workshops to present the proposed methodology and receive comments and suggestions, and to respond to the comments and suggestions.
 - The Consultant will coordinate with Watermaster staff to organize the technical workshops.
 - It is assumed that three half-day workshops will take place in fiscal year 2021/22.
 - The Consultant will organize and conduct four meetings with the Parties to present the results of the data collection and interpretation. These meetings are assumed to last one to two hours.

Deliverables

- The Consultant's primary deliverables will be four draft technical memoranda/reports:
 - A draft and final TM defining the initial conceptual approaches to address the sources of modeling uncertainty that should be addressed in the updated Safe Yield methodology. The final TM will be disseminated to the Parties in advance of the first peer review workshop.
 - A draft and final letter documenting the comments provided in the first peer review workshop and the supplemental scope and budget to develop a proposed update of the Safe Yield methodology.
 - A draft TM describing one or more proposed methodologies and associated technical work, including the steps, cost, and schedule to implement it. The draft TM describing the proposed methodology will be refined and finalized in fiscal year 2022/23.
 - A draft and final report documenting the data collection process and the data collected for fiscal year 2020/21.
- The Consultant will prepare other deliverables as needed to support the technical workshops and meetings in Task 3.





II. <u>BUSINESS ITEMS</u> B. FISCAL YEAR 2021/22 BUDGET AMENDMENT (FORM A-21-11-01)
Page 223



CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01) (Business Item II.B.)

SUMMARY:

<u>Issue</u>: The Watermaster FY 2021/22 "Amended" budget needs to be increased by an additional amount of \$86,504 to include the Scope and Budget for the Safe Yield Reset Methodology Update.

<u>Recommendation:</u> Recommend to the Advisory Committee to approve the Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01).

<u>Financial Impact:</u> This action will increase the overall "Amended" FY 2021/22 budget from \$7,780,432 to \$7,866,936, an increase of \$86,504. If the Budget Amendment is approved, the Assessment calculation will be increased by the same amount when the Assessment Package is considered in November 2021.

Future Consideration

Appropriative Pool – November 10, 2021: Advice and Assistance Non-Agricultural Pool – November 10, 2021: Advice and Assistance Agricultural Pool – November 10, 2021: Advice and Assistance

Advisory Committee - November 18, 2021: Approval

Watermaster Board - November 18, 2021: Adoption [Advisory Committee approval required]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

Budget Amendment Policy: If there are no budgeted funds available to transfer to the line item, the General Manager will submit a Budget Amendment request to the Pool Committees to request Advisory Committee approval, and then to the Board for formal adoption. The Budget Amendment should indicate the anticipated source of funding for the approved increase. All Budget Amendments are processed and recorded in the accounting system.

On September 23, 2021 the Watermaster Board adopted the September 23, 2021 version of the FY 2021/22 budget for \$7,708,432.

On October 28, 2021 the Watermaster Board adopted the Fiscal Year 2021/22 Budget Amendment (Form A-21-10-01) which increased the budget from \$7,708,432 to \$7,780,432 an increase of \$72,000.

DISCUSSION

The need for Budget Amendment (Form A-21-11-01) (Attachment 1) is described in the staff report of the previous item on this agenda titled "Fiscal Year 2021/22 Scope and Budget For The Safe Yield Reset Methodology Update".

With approval of the Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01), the "Amended" Budget for FY 2021/22 would be \$7,866,936.

ATTACHMENTS

1. Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01)

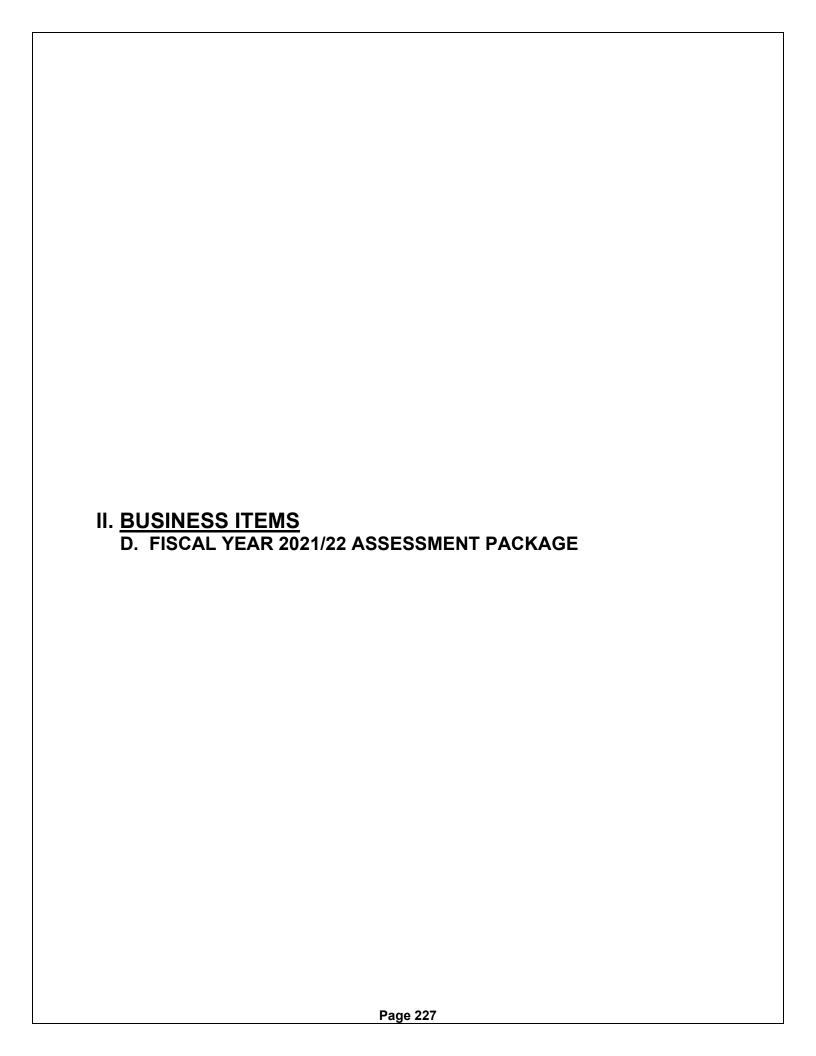


CHINO BASIN WATERMASTER BUDGET AMENDMENT FORM A-21-11-01

To: All Parties			Fiscal Year_	2021/22	
From:	Joseph S. Joswiak, CFO	Date:	November 10,	2021	

Describe reason for the budget amendment here: The current "Amended" Budget for FY 2021/22 is \$7,780,432. This "Amended" budget is the October 28, 2021 version adopted by the Board on October 28, 2021. This Budget Amendment Form is proposed to increase the total Watermaster "Amended" budget from \$7,780,432 (excluding any Carry-Over funding) to \$7,866,936, an increase of \$86,504. The additional funding will come from the Assessment Process when the Assessment Package is approved in November 2021, and invoices generated.

Expenditure Amendment						
Line Item Description	Account Number	Approved Budget	Amended Budget		nendment Amount	
Support Implementation of Safe Yield Court Order	7614	\$285,188	\$371,692		\$86,504	
			TOTAL:	\$	86,504	
Revenue Source	T .			· .		
Line Item Description	Account Number	Approved Budget	Amended Budget		Amendment Amount	
Assessment Package	9999	\$7,780,432	\$7,866,936	\$86,504		
			TOTAL:	\$	86,504	
Amendment Procedure 1. Staff takes amendment requests to the Pools, Advisory Committee &	Poord for approval	Finance Use Only				
The Chief Financial Officer will prepare and process the budget entry.	• • • • • • • • • • • • • • • • • • • •	Date Board A	Date Board Approved			
A log will be maintained by the Finance Department detailing the adjustance.		Entered into	Entered into System By			
A fiscal year file will also be kept to hold all budget amendment forms		Finance Log	Finance Log #			
orrespondent to the state of th	ior additor rottom	Date Posted				
			Approved By			
		Date Approve	ed			





CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Committee Members

SUBJECT: Fiscal Year 2021/22 Assessment Package (Business Item II.D.)

SUMMARY:

<u>Issue</u>: The Chino Basin Watermaster Fiscal Year 2021/22 Assessment Package, based on Production Year 2020/21, needs to be approved.

<u>Recommendation:</u> Review Fiscal Year 2021/22 Assessment Package as presented and offer advice to Watermaster.

<u>Financial Impact:</u> Collection of assessments according to the Assessment Package creates the funds that are used during the current fiscal year for budgeted expenses and the purchase of water (if available) for replenishment obligations.

Future Consideration

Appropriative Pool – November 10, 2021: Advice and assistance Non-Agricultural Pool – November 10, 2021: Advice and assistance Agricultural Pool – November 10, 2021: Advice and assistance Advisory Committee – November 18, 2021: Advice and assistance

Watermaster Board - November 18, 2021: Approval [Within Watermaster Powers and Duties]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

Watermaster issues an Assessment Package annually based on production during the previous production year (July 1 through June 30). Production information is generally collected quarterly, and other necessary information is collected annually. Assessments create funds that are used during the current fiscal year for budgeted expenses. Assessments are based on the approved budget allocated across the total assessable production in the Basin.

DISCUSSION

The Parties of the Overlying (Non-Agricultural) Pool and the Appropriative Pool were each sent a copy of their Water Activity Report in August 2021 that summarized their water activity for the previous year, including production. Dry Year Yield (DYY), land use conversion, transfers, voluntary agreements, and assignments. Each Party was asked to verify the data gathered and summarized by Watermaster. The Water Activity Reports were received back, and any necessary corrections were made.

Each Appropriative Pool Party's Water Activity Report was accompanied with a "Transfer from Storage to Satisfy Desalter Replenishment Obligation (DRO)" form, and summaries of DRO and Local Storage Accounts' balances. Using the form, the Parties submitted their preference on how they would like their share of DRO to be satisfied with stored water. Those transfers were then executed in September 2021 and the Parties' storage account balances were adjusted accordingly.

Assessments generate funds to cover the current year FY 2021/22 approved amended budget, in addition to reserves according to existing reserve policies. The Assessment Package does not factor in unspent monies, those are returned to Parties as a credit on the assessment invoicing. The FY 2020/21 Reserve excess cash to be refunded is \$0; Recharge Basin O&M excess cash to be refunded is \$145,384.27; the Debt Payment excess cash to be refunded is \$156,259.00; and the Recharge Improvement Projects excess cash to be refunded is \$1,234,582.42.

The total Operating Safe Yield (OSY) of the Appropriative Pool is now 40,834 acre-feet beginning with the 2020/21 production year, pursuant to the July 2020 Court Order. And continuing from the previous Assessment Package, Land Use Conversion has priority ahead of Early Transfer in calculating the Agricultural Pool Safe Yield Reallocation.

The Assessment Package is based on the FY 2021/22 Amended Budget totaling \$7,780,432, as it was approved on October 21, 2021, and identifies total assessable production for all Pools as 98,806.1 acrefeet, resulting in assessments of \$22.27/acre-foot for Judgment Administration and \$48.25/acre-foot for OBMP & Program Elements 1-9, excluding recharge debt service, recharge improvement project expenses, "Pomona Credit" assessments, and assessments for replenishment and CURO water.

The current Assessment Package as presented does not include the proposed Fiscal Year 2021/22 Budget Amendment (Form A-21-11-01) in the amount of \$86,504, which is presented as Item II.B. of the agenda. If the proposed Fiscal Year 2021/22 Budget Amendment of \$86,504 is approved, the revised Assessment for OBMP & Program Elements 1-9 would be increased an additional \$0.87, bringing the total from \$48.25/acre-foot to \$49.12/acre-foot. The Judgment Administration amount of \$22.27/acre-foot would not change.

For production year 2020/21, there is a replenishment obligation of 1,823.7 acre-feet for overproduction, and 254.1 acre-feet for DRO. The new replenishment rate is \$789 per acre-foot, which is MWD's 2021 Tier 1 Untreated rate at \$777 plus OCWD's \$2 connection fee plus TVMWD's \$10 surcharge.

In September 2021, Watermaster received an RTS invoice from IEUA in the amount of \$35,030.19. The RTS is being assessed for water purchased during FY 2016/17 and FY 2017/18 through IEUA. A portion of the RTS is the fourth of ten annual installments for the 5,767.037 acre-feet of water purchased during

FY 2016/17. The other portion is the third of ten annual installments for the 1,145.9 acre-feet of water purchased during FY 2017/18. The 85/15 Rule is applied where applicable for the RTS charges.

The additional assessments approved as part of the budget, allocated amongst the Appropriators based on their percentage of OSY, are Pomona Credit assessment of \$66,667.00, recharge debt payment assessment of \$529,029.00, and recharge improvement project assessment of \$0. Other approved assessments will be invoiced based on formulas separate from the Assessment Package.

The total DRO for production year 2020/21 is 26,879.4 acre-feet. This includes the 10,000 acre-feet of DRO Contribution and 16,879.4 acre-feet of Remaining DRO. In August and September 2021, the Appropriative Pool Parties were given an opportunity to transfer water and satisfy their share of DRO. The Parties have submitted their requests and the DRO was satisfied with a combination of stored water, annual water rights, and Exhibit "G" Form A transfers. In the end, the residual DRO to be assessed is 254.1 acre-feet.

The loss rate applied to water held in storage accounts continues to be 0.07%. This rate is reflected in the Assessment Package and has been applied to the beginning balances of locally stored water accounts.

In cases where the ending balance of a storage account has increased from the beginning balance on July 1, 2021, a new storage agreement will be required. Parties with increased storage balances as of the approval of the Assessment Package have already submitted storage applications to Watermaster and were approved by the Water Board on June 24,2021 for the Overlying (Non-Agricultural) Pool, and September 23, 2021 for the Appropriative Pool. Following the approval of the Assessment Package, a new storage agreement will be sent for signature to those Parties with increased balances.

Watermaster has entered into storage agreements for all local water storage accounts based on last year's Assessment Package, except for water held in the Excess Carry Over (ECO) Storage account by the Appropriative Pool. The Appropriative Pool storage agreements for additional ECO water stored during production year 2019/20 have been suspended due to the Overlying (Agricultural) Pool (OAP) contest to the Storage Management Plan. For the purposes of allocating assessments among the members of the Appropriative Pool, this Assessment Package assumes that the contest has been resolved where the ECO storage agreements and any water transaction of ECO water have been approved. If the actual result from the contest differs from what is currently recorded in the Assessment Package, Watermaster will revise the FY 2020/21 and FY 2021/22 Assessment Packages accordingly.

Watermaster held two Assessment Package Workshops: one on October 19, 2021 and the other on November 2, 2021. The purpose of the workshops was to provide the parties with information pertaining to the Assessment Package and opportunities to raise questions, concerns, and feedback.

The FY 2021/22 Assessment Package is being presented to the Pool Committees for advice and assistance. It will then be presented to the Advisory Committee for advice and assistance, and Watermaster Board on November 18, 2021 for approval. If approved by the Board, invoices will be emailed to the Parties immediately following the Board's approval.

In addition to the line items detailed within the FY 2021/22 Assessment Package, additional credits and charges will be added to assessment invoices as directed by specific action of the Pool(s), or by action of Watermaster per past practice; these items are not dependent on the Board's approval of the Assessment Package. The following additional items will be added to this year's assessment invoicing:

- 1. Refund of previously assessed and collected Recharge Improvement Projects funding to the Appropriative Pool (authorized by the AP on 06/10/21): \$1,234,582.42
- 2. Refund of the FY 2020/21 Debt Service Payments in excess to the Appropriative Pool: \$156,259.00
- Refund of FY 2020/21 Recharge Basin O&M Payments in excess to the Appropriative Pool: \$145.384.27
- 4. Charge the Appropriative Pool for expenses paid by the Non-Agricultural Pool (authorized by the AP on 06/10/21): \$107,544.38

5. Refund to the Non-Agricultural Pool for expenses paid (authorized by the AP on 06/10/21): \$107,544.38 [this refund may result in an accounts payable check to be issued by Watermaster]

In addition to the items listed above, charges for Pool Administration/Legal Services will be included on the FY 2021/22 Assessment invoices as approved by each Pool Committee.

ATTACHMENTS

1. Fiscal Year 2021/22 Assessment Package (DRAFT)



CHINO BASIN WATERMASTER

DRAFT

2021/2022 ASSESSMENT PACKAGE (PRODUCTION YEAR 2020/2021)

PRINTED NOVEMBER 2, 2021



Chino Basin Watermaster Assessment Package

Table of Contents

Assessment Year 2021-2022 (Production Year 2020-2021)

Table of Contents	
Pool 1	
Water Production Overview	
Pool 2	
Assessment Fee Summary	
Water Production Overview	3
Water Production Summary	4
Local Storage Accounts Summary	5
Water Transaction Summary	6
Cumulative Unmet Replenishment Obligation (CURO)	7
Pool 3	
Assessment Fee Summary	
Water Production Overview	
Water Production Summary	10
Local Excess Carry Over Storage Account Summary	11
Local Supplemental Storage Account Summary	12
Other Storage and Replenishment Accounts	13
Water Transaction Summary	
Land Use Conversion Summary	15
Agricultural Pool Reallocation Summary	16
Cumulative Unmet Replenishment Obligation (CURO)	17
Desalter Replenishment Accounting	18
Desalter Replenishment Obligation Contribution (DROC)	19
Remaining Desalter Replenishment Obligation (RDRO)	20
Desalter Replenishment Summary	21
Pool All	
Assessment Calculation	22
Water Transaction Detail	23
Analysis of the 85/15 Rule Application to Water Transfers	24
Watermaster Replenishment Calculation	25
Readiness to Serve (RTS) Charges	26
Assessment Package Notes	27
Assessment Package References and Definitions	28



Water Production Overview

AGRICULTURAL POOL SUMMARY IN ACRE FEET

Agricultural Pool Safe Yield	82,800.0
Agricultural Total Pool Production	(21,484.8)
- 	61,315.2
Safe Yield Reduction (Backfill)	(9,000.0)
Total Conversions	(31,716.6)
-	(40,716.6)
Early Transfer:	20,598.6

Well County	Physical Production	Voluntary Agreements	Total Ag Pool Production
Los Angeles County	165.1	0.0	165.1
Riverside County	1,987.6	0.0	1,987.6
San Bernardino County	12,869.4	6,462.7	19,332.1
	15,022.1	6,462.7	21,484.8



Assessment Fee Summary

		Non-Agrice	ultural Pool	Replenis Assess					
	AF Production	\$22.27 AF/Admin	\$48.25 AF/OBMP	AF Over Annual Right	\$789.00 Per AF	CURO Adjmnt	RTS Charges	Other Adjmnts	Total Assmnts Due
9W Halo Western OpCo L.P.	28.5	635.05	1,375.90	11.6	9,157.13	98.57	384.62	0.00	11,651.27
ANG II (Multi) LLC	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00
Aqua Capital Management LP	0.0	0.00	0.00	0.0	0.00	0.00	291.23	0.00	291.23
California Speedway Corporation	388.3	8,647.57	18,735.76	0.0	0.00	0.00	0.00	0.00	27,383.33
California Steel Industries, Inc.	1,301.8	28,991.93	62,813.68	0.0	0.00	0.00	0.00	0.00	91,805.61
CalMat Co.	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00
CCG Ontario, LLC	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00
City of Ontario (Non-Ag)	1,608.4	35,818.24	77,603.51	0.0	0.00	0.00	0.00	0.00	113,421.75
County of San Bernardino (Non-Ag)	72.6	1,617.18	3,503.77	0.0	0.00	0.00	0.00	0.00	5,120.95
General Electric Company	0.0	0.00	0.00	0.0	0.00	57.15	0.31	0.00	57.46
Hamner Park Associates, a California Limited Partnership	323.4	7,202.50	15,604.87	0.0	0.00	0.00	0.00	0.00	22,807.37
Linde Inc.	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00
Monte Vista Water District (Non-Ag)	22.1	492.17	1,066.32	0.0	0.00	0.00	0.00	0.00	1,558.49
Riboli Family and San Antonio Winery, Inc.	43.2	962.84	2,086.09	43.2	34,112.42	248.40	192.69	0.00	37,602.44
Space Center Mira Loma, Inc.	93.7	2,086.88	4,521.41	0.0	0.00	0.00	0.00	0.00	6,608.29
TAMCO	15.3	340.40	737.50	0.0	0.00	0.00	184.26	0.00	1,262.16
West Venture Development Company	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00
	3,897.4	86,794.76	188,048.81	54.8	43,269.55	404.12	1,053.10	0.00	319,570.34
	2A	2B	2C	2D	2E	2F	2G	2H	21

¹⁾ In September 2020, Praxair, Inc. changed its name to Linde Inc.
2) ANG II (Multi) LLC temporarily leased their rights to 9W Halo Western OpCo L.P. (as successor to Angelica) beginning on March 2010 through January 2030.



Water Production Overview

	Physical Production	Assignments	Other Adjustments	Actual FY Production (Assmnt Pkg Column 4H)
9W Halo Western OpCo L.P.	28.5	0.0	0.0	28.5
ANG II (Multi) LLC	0.0	0.0	0.0	0.0
Aqua Capital Management LP	0.0	0.0	0.0	0.0
California Speedway Corporation	388.3	0.0	0.0	388.3
California Steel Industries, Inc.	1,301.8	0.0	0.0	1,301.8
CalMat Co.	0.0	0.0	0.0	0.0
CCG Ontario, LLC	0.0	0.0	0.0	0.0
City of Ontario (Non-Ag)	0.0	1,608.4	0.0	1,608.4
County of San Bernardino (Non-Ag)	0.0	72.6	0.0	72.6
General Electric Company	1,018.1	0.0	(1,018.1)	0.0
Hamner Park Associates, a California Limited Partnership	0.0	323.4	0.0	323.4
Linde Inc.	0.0	0.0	0.0	0.0
Monte Vista Water District (Non-Ag)	0.0	22.1	0.0	22.1
Riboli Family and San Antonio Winery, Inc.	43.2	0.0	0.0	43.2
Space Center Mira Loma, Inc.	0.0	93.7	0.0	93.7
TAMCO	15.3	0.0	0.0	15.3
West Venture Development Company	0.0	0.0	0.0	0.0
	2,795.3	2,120.2	(1,018.1)	3,897.4
	3A	3B	3C	3D

Other Adj:

1) General Electric Company extracted and subsequently injected 1,018.13 AF of water during the fiscal year.

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Water Production Summary

	Percent of Safe	Carryover	Prior Year	Assigned Share	Water	Other Adjust-	Annual	Actual Fiscal	scal Net Over	Under Production Balances		
	Yield	Beginning Balance	Adjustments	of Safe Yield (AF)	Transaction Activity	ments	Production Right	Year Production	Production	Total Under- Produced	Carryover: Next Year Begin Bal	To Excess Carryover Account
9W Halo Western OpCo L.P.	0.256%	0.0	0.0	18.8	(1.9)	0.0	16.9	28.5	11.6	0.0	0.0	0.0
ANG II (Multi) LLC	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aqua Capital Management LP	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
California Speedway Corporation	13.605%	1,000.0	0.0	1,000.0	(100.0)	0.0	1,900.0	388.3	0.0	1,511.7	1,000.0	511.7
California Steel Industries, Inc.	21.974%	1,615.1	0.0	1,615.1	(161.5)	0.0	3,068.8	1,301.8	0.0	1,766.9	1,615.1	151.8
CalMat Co.	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CCG Ontario, LLC	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
City of Ontario (Non-Ag)	53.338%	3,920.6	0.0	3,920.6	(392.1)	0.0	7,449.1	1,608.4	0.0	5,840.7	3,920.6	1,920.1
County of San Bernardino (Non-Ag)	1.821%	133.9	0.0	133.9	(13.4)	0.0	254.4	72.6	0.0	181.7	133.9	47.9
General Electric Company	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hamner Park Associates, a California Limited Partnership	6.316%	464.2	0.0	464.2	(46.4)	0.0	882.1	323.4	0.0	558.6	464.2	94.4
Linde Inc.	0.014%	1.0	0.0	1.0	(0.1)	0.0	1.9	0.0	0.0	1.9	1.0	0.9
Monte Vista Water District (Non-Ag)	0.680%	50.0	0.0	50.0	(5.0)	0.0	95.0	22.1	0.0	72.9	50.0	22.9
Riboli Family and San Antonio Winery, Inc.	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	43.2	43.2	0.0	0.0	0.0
Space Center Mira Loma, Inc.	1.417%	0.0	0.0	104.1	(10.4)	0.0	93.7	93.7	0.0	0.0	0.0	0.0
TAMCO	0.579%	42.6	0.0	42.6	(4.3)	0.0	81.0	15.3	0.0	65.7	42.6	23.1
West Venture Development Company	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	100.00%	7,227.4	0.0	7,350.3	(735.0)	0.0	13,842.7	3,897.4	54.8	10,000.2	7,227.4	2,772.8
	4A	4B	4C	4D	4E	4F	4G	4H	41	4J	4K	4L

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2) ANG II (Multi) LLC temporarily leased their rights to 9W Halo Western OpCo L.P. (as successor to Angelica) beginning on March 2010 through January 2030.



Local Storage Accounts Summary

	Local Excess Carry Over Storage Account (ECO)			Local Supplemental Storage Account				Combined		
	Beginning Balance	0.07% Storage Loss	Transfers To / (From)	From Under- Production	Ending Balance	Beginning Balance	0.07% Storage Loss	Transfers To / (From)	Ending Balance	Ending Balance
9W Halo Western OpCo L.P.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANG II (Multi) LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aqua Capital Management LP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
California Speedway Corporation	1,419.9	(1.0)	(32.1)	511.7	1,898.5	0.0	0.0	0.0	0.0	1,898.5
California Steel Industries, Inc.	2,361.7	(1.7)	0.0	151.8	2,511.8	0.0	0.0	0.0	0.0	2,511.8
CalMat Co.	5.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	5.0
CCG Ontario, LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
City of Ontario (Non-Ag)	3,461.4	(2.4)	(3,461.1)	1,920.1	1,918.0	0.0	0.0	0.0	0.0	1,918.0
County of San Bernardino (Non-Ag)	204.1	(0.1)	0.0	47.9	251.8	0.0	0.0	0.0	0.0	251.8
General Electric Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hamner Park Associates, a California Limited Partnership	1,627.6	(1.1)	0.0	94.4	1,720.9	0.0	0.0	0.0	0.0	1,720.9
Linde Inc.	63.5	0.0	0.0	0.9	64.3	0.0	0.0	0.0	0.0	64.3
Monte Vista Water District (Non-Ag)	95.1	(0.1)	0.0	22.9	117.9	0.0	0.0	0.0	0.0	117.9
Riboli Family and San Antonio Winery, Inc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Space Center Mira Loma, Inc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TAMCO	235.3	(0.2)	0.0	23.1	258.2	0.0	0.0	0.0	0.0	258.2
West Venture Development Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	9,473.5	(6.6)	(3,493.2)	2,772.8	8,746.4	0.0	0.0	0.0	0.0	8,746.4
	5A	5B	5C	5D	5E	5F	5 G	5H	51	5J

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²⁾ ANG II (Multi) LLC temporarily leased their rights to 9W Halo Western OpCo L.P. (as successor to Angelica) beginning on March 2010 through January 2030.

³⁾ California Speedway Corporation dedicated 32.1 AF to satisfy a portion of BlueTriton Brands, Inc.'s 2021/22 DRO pursuant to an Exhibit "G" Section 10 Form A.

⁴⁾ City of Ontario (Non-Ag) dedicated 3,461.1 AF to satisfy a portion of City of Ontario's 2021/22 DRO pursuant to an Exhibit "G" Section 10 Form A.



Water Transaction Summary

			Water Transactions			
	Percent of Safe Yield	Assigned Share of Safe Yield (AF)	10% of Operating Safe Yield ("Haircut")	Transfers (To) / From ECO Account	General Transfers / Exhibit G Water Sales	Total Water Transactions
9W Halo Western OpCo L.P.	0.256%	18.8	(1.9)	0.0	0.0	(1.9)
ANG II (Multi) LLC	0.000%	0.0	0.0	0.0	0.0	0.0
Aqua Capital Management LP	0.000%	0.0	0.0	0.0	0.0	0.0
California Speedway Corporation	13.605%	1,000.0	(100.0)	32.1	(32.1)	(100.0)
California Steel Industries, Inc.	21.974%	1,615.1	(161.5)	0.0	0.0	(161.5)
CalMat Co.	0.000%	0.0	0.0	0.0	0.0	0.0
CCG Ontario, LLC	0.000%	0.0	0.0	0.0	0.0	0.0
City of Ontario (Non-Ag)	53.338%	3,920.6	(392.1)	3,461.1	(3,461.1)	(392.1)
County of San Bernardino (Non-Ag)	1.821%	133.9	(13.4)	0.0	0.0	(13.4)
General Electric Company	0.000%	0.0	0.0	0.0	0.0	0.0
Hamner Park Associates, a California Limited Partnership	6.316%	464.2	(46.4)	0.0	0.0	(46.4)
Linde Inc.	0.014%	1.0	(0.1)	0.0	0.0	(0.1)
Monte Vista Water District (Non-Ag)	0.680%	50.0	(5.0)	0.0	0.0	(5.0)
Riboli Family and San Antonio Winery, Inc.	0.000%	0.0	0.0	0.0	0.0	0.0
Space Center Mira Loma, Inc.	1.417%	104.1	(10.4)	0.0	0.0	(10.4)
TAMCO	0.579%	42.6	(4.3)	0.0	0.0	(4.3)
West Venture Development Company	0.000%	0.0	0.0	0.0	0.0	0.0
	100.000%	7,350.3	(735.0)	3,493.2	(3,493.2)	(735.0)
	6A	6B	6C	6D	6E	6F

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⁴⁾ City of Ontario (Non-Ag) dedicated 3,461.1 AF to satisfy a portion of City of Ontario's 2021/22 DRO pursuant to an Exhibit "G" Section 10 Form A.



Cumulative Unmet Replenishment Obligation (CURO)

Remaining Replenishment Obligation:	AF
Appropriative - 100	0.0
Appropriative - 15/85	0.0
Non-Agricultural - 100	0.0
	0.0

Replenishment Rates					
2021 Rate	\$789.00				
2020 Rate	\$767.00				

Pool 2 Non-Agricultural

Company	Outstanding Obligation (AF)	Fund Balance (\$)	Outstanding Obligation (\$)
9W Halo Western OpCo L.P.	0.0	(\$98.57)	\$98.57
ANG II (Multi) LLC	0.0	\$0.00	\$0.00
Aqua Capital Management LP	0.0	\$0.00	\$0.00
California Speedway Corporation	0.0	\$0.00	\$0.00
California Steel Industries, Inc.	0.0	\$0.00	\$0.00
CalMat Co.	0.0	\$0.00	\$0.00
CCG Ontario, LLC	0.0	\$0.00	\$0.00
City of Ontario (Non-Ag)	0.0	\$0.00	\$0.00
County of San Bernardino (Non-Ag)	0.0	\$0.00	\$0.00
General Electric Company	0.0	(\$57.15)	\$57.15
Hamner Park Associates, a California Limited Partnership	0.0	\$0.00	\$0.00
Linde Inc.	0.0	\$0.00	\$0.00
Monte Vista Water District (Non-Ag)	0.0	\$0.00	\$0.00
Riboli Family and San Antonio Winery, Inc.	0.0	(\$248.40)	\$248.40
Space Center Mira Loma, Inc.	0.0	\$0.00	\$0.00
TAMCO	0.0	\$0.00	\$0.00
West Venture Development Company	0.0	\$0.00	\$0.00
Pool 2 Non-Agricultural Total	0.0	(\$404.12)	\$404.12
	7A	7B	7C

¹⁾ In September 2020, Praxair, Inc. changed its name to Linde Inc.

²⁾ ANG II (Multi) LLC temporarily leased their rights to 9W Halo Western OpCo L.P. (as successor to Angelica) beginning on March 2010 through January 2030.

³⁾ The 2021 replenishment rate includes MWD's Full Service Untreated Tier 1 volumic cost of \$777/AF, a \$10/AF surcharge from Three Valleys Municipal Water District, and a \$2/AF connection fee from Orange County Water District.



Assessment Fee Summary

AF App		Appropria	ative Pool	Ag P	ool SY Reallo	ocation	Repleni	shment Asse	essments	85/15	Activity		ASSESSMENTS DUE							
	Production and Exchanges	\$22.27 AF/Admin	\$48.25 AF/OBMP	AF Total Realloc- ation	\$478,534 \$7.80 AF/Admin	\$1,036,584 \$16.91 AF/OBMP	\$118.35 AF/15%	\$670.65 AF/85%	\$789.00 AF/100%	15% Producer Credits	15% Pro-rated Debits	CURO Adjmt	Total Production Based	Pomona Credit	Recharge Debt Payment	Recharge Imprvmnt Project	RTS Charges	Other Adjmts	DRO	Total Due
BlueTriton Brands, Inc.	271.3	6,041.21	13,088.83	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(135.86)	18,994.18	0.00	0.00	0.00	7,519.14	0.00	0.00	26,513.32
CalMat Co. (Appropriative)	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chino Hills, City Of	2,459.6	54,775.92	118,677.05	2,417.9	18,870.15	40,875.88	81.46	0.00	0.00	0.00	25,247.02	0.40	258,527.88	2,567.35	20,372.91	0.00	1.04	0.00	0.00	281,469.18
Chino, City Of	2,762.4	61,518.20	133,284.84	11,194.4	87,366.39	189,250.10	91.49	0.00	0.00	0.00	28,354.64	0.45	499,866.11	4,904.69	38,920.66	0.00	0.05	0.00	0.00	543,691.51
Cucamonga Valley Water District	5,725.7	127,511.34	276,265.03	2,552.2	19,918.39	43,146.53	189.63	0.00	0.00	0.00	58,771.84	0.92	525,803.68	4,400.69	34,921.20	0.00	12.09	0.00	0.00	565,137.66
Desalter Authority	40,114.5	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fontana Union Water Company	0.0	0.00	0.00	3,450.3	26,927.93	58,330.36	0.00	0.00	0.00	0.00	0.00	0.00	85,258.29	7,771.37	61,668.91	0.00	0.00	0.00	0.00	154,698.57
Fontana Water Company	11,065.3	246,424.59	533,901.50	834.6	6,513.57	14,109.47	366.47	0.00	0.00	(629,915.45)	113,580.68	1.79	284,982.62	1.33	10.58	0.00	9.15	0.00	0.00	285,003.67
Fontana, City Of	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Golden State Water Company	1,074.4	23,926.60	51,839.17	222.0	1,732.52	3,752.92	35.58	0.00	0.00	0.00	11,028.12	0.18	92,315.09	500.00	3,967.72	0.00	0.50	0.00	0.00	96,783.31
Jurupa Community Services District	10,609.9	236,282.61	511,927.96	16,328.0	127,432.12	276,039.11	351.39	0.00	0.00	0.00	108,906.10	1.73	1,260,941.02	2,506.01	19,886.20	0.00	5.81	0.00	0.00	1,283,339.04
Marygold Mutual Water Company	840.9	18,726.49	40,572.65	353.7	2,760.47	5,979.64	0.00	0.00	0.00	0.00	0.00	0.00	68,039.25	796.67	6,321.90	0.00	764.52	0.00	0.00	75,922.34
Monte Vista Irrigation Company	0.0	0.00	0.00	365.2	2,850.57	6,174.80	0.00	0.00	0.00	0.00	0.00	0.00	9,025.37	822.67	6,528.22	0.00	0.00	0.00	0.00	16,376.26
Monte Vista Water District	7,523.3	167,543.69	362,998.79	2,709.4	21,145.54	45,804.75	249.16	0.00	0.00	0.00	77,223.33	1.23	674,966.49	5,864.70	46,538.68	0.00	4.87	0.00	0.00	727,374.74
NCL Co, LLC	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Niagara Bottling, LLC	1,751.7	39,009.58	84,517.84	0.0	0.00	0.00	0.00	0.00	1,382,063.69	0.00	0.00	18,212.89	1,523,804.00	0.00	0.00	0.00	23,935.00	723.57 1	98,558.16	1,747,020.73
Nicholson Family Trust	0.0	0.00	0.00	2.1	16.17	35.03	0.00	0.00	0.00	0.00	0.00	0.00	51.20	4.67	37.03	0.00	0.00	(2.13)	0.00	90.77
Norco, City Of	0.0	0.00	0.00	108.9	850.09	1,841.43	0.00	0.00	0.00	0.00	0.00	0.00	2,691.52	245.33	1,946.83	0.00	0.00	0.00	0.00	4,883.68
Ontario, City Of	17,171.1	382,401.07	828,507.02	10,807.7	84,348.53	182,712.90	568.68	0.00	0.00	0.00	176,254.23	2.79	1,654,795.22	13,828.07	109,731.20	0.00	11.25	0.00	0.00	1,778,365.74
Pomona, City Of	9,192.2	204,709.23	443,521.33	6,054.1	47,249.20	102,349.61	0.00	0.00	0.00	0.00	0.00	0.00	797,829.37	(53,030.93)	108,207.59	0.00	0.00	0.00	0.00	853,006.03
San Antonio Water Company	676.5	15,066.28	32,642.48	813.4	6,347.94	13,750.69	22.41	0.00	0.00	0.00	6,944.27	0.11	74,774.18	1,832.01	14,537.72	0.00	0.57	0.00	0.00	91,144.48
San Bernardino, County of (Shooting Park)	17.2	382.44	828.60	0.0	0.00	0.00	0.57	11,517.07	0.00	0.00	176.27	56.71	12,961.66	0.00	0.00	0.00	270.81	5.01	1,946.46	15,183.94
Santa Ana River Water Company	175.5	3,908.34	8,467.78	702.4	5,481.68	11,874.23	5.81	0.00	0.00	0.00	1,801.41	0.03	31,539.28	1,582.01	12,553.86	0.00	964.56	(1.67)	0.00	46,638.04
Upland, City Of	2,107.0	46,923.13	101,663.28	1,539.7	12,016.74	26,030.24	69.78	0.00	0.00	0.00	21,627.56	0.34	208,331.07	3,468.02	27,520.09	0.00	1.39	0.00	0.00	239,320.57
West End Consolidated Water Co	0.0	0.00	0.00	511.5	3,991.72	8,646.72	0.00	0.00	0.00	0.00	0.00	0.00	12,638.44	1,152.01	9,141.62	0.00	0.00	0.00	0.00	22,932.07
West Valley Water District	0.0	0.00	0.00	347.8	2,714.28	5,879.58	0.00	0.00	0.00	0.00	0.00	0.00	8,593.86	783.34	6,216.09	0.00	476.35	(0.83)	0.00	16,068.81
	113,538.4	1,635,150.72	3,542,704.15	61,315.2	478,534.00	1,036,584.00	2,032.43	11,517.07	,382,063.69	(629,915.45)	629,915.47	18,143.71	8,106,729.77	0.01	529,029.01	0.00	33,977.09	723.95 2	00,504.62	8,870,964.45
	8A	8B	8C	8D	8E	8F	8G	8H	81	8J	8K	8L	8M	8N	80	8P	8Q	8R	88	8T

¹⁾ IEUA is collecting the fourth of ten annual RTS charges for water purchased in FY 2016/17, and third of ten annual RTS charges for water purchased in FY 2017/18.
2) "Other Adjustments" (Column [8R]) includes adjustments from replenishment purchase for DRO.

³⁾ In April 2021, Nestle Waters North America Inc., who owns Arrowhead Mountain Spring Water brand, changed its name to BlueTriton Brands, Inc. and requested Watermaster to use the new company name.



Water Production Overview

	Physical Production	Voluntary Agreements (w/ Ag)	Assignments (w/ Non-Ag)	Other Adjustments	Actual FY Production (Assmnt Pkg Column 10l)
BlueTriton Brands, Inc.	271.3	0.0	0.0	0.0	271.3
CalMat Co. (Appropriative)	0.0	0.0	0.0	0.0	0.0
Chino Hills, City Of	2,528.6	(69.0)	0.0	0.0	2,459.6
Chino, City Of	6,133.0	(3,298.0)	(72.6)	0.0	2,762.4
Cucamonga Valley Water District	26,225.7	0.0	0.0	0.0	26,225.7
Desalter Authority	40,156.1	0.0	0.0	(41.6)	40,114.5
Fontana Union Water Company	0.0	0.0	0.0	0.0	0.0
Fontana Water Company	13,565.3	0.0	0.0	0.0	13,565.3
Fontana, City Of	0.0	0.0	0.0	0.0	0.0
Golden State Water Company	1,074.4	0.0	0.0	0.0	1,074.4
Jurupa Community Services District	11,160.9	0.0	(417.1)	(133.9)	10,609.9
Marygold Mutual Water Company	840.9	0.0	0.0	0.0	840.9
Monte Vista Irrigation Company	0.0	0.0	0.0	0.0	0.0
Monte Vista Water District	7,674.4	(124.4)	(22.1)	(4.7)	7,523.3
NCL Co, LLC	0.0	0.0	0.0	0.0	0.0
Niagara Bottling, LLC	1,751.7	0.0	0.0	0.0	1,751.7
Nicholson Family Trust	0.0	0.0	0.0	0.0	0.0
Norco, City Of	0.0	0.0	0.0	0.0	0.0
Ontario, City Of	21,750.8	(2,971.3)	(1,608.4)	0.0	17,171.1
Pomona, City Of	9,192.2	0.0	0.0	0.0	9,192.2
San Antonio Water Company	676.5	0.0	0.0	0.0	676.5
San Bernardino, County of (Shooting Park)	17.2	0.0	0.0	0.0	17.2
Santa Ana River Water Company	0.0	0.0	0.0	175.5	175.5
Upland, City Of	2,177.1	0.0	0.0	(70.1)	2,107.0
West End Consolidated Water Co	0.0	0.0	0.0	0.0	0.0
West Valley Water District	0.0	0.0	0.0	0.0	0.0
	145,196.1	(6,462.7)	(2,120.2)	(74.8)	136,538.4
Less Desalter Authority Production					(40,114.5)
Total Less Desalter Authority Production					96,423.9
	9A	9B	9C	9D	9E

Notes:

1) In April 2021, Nestle Waters North America Inc., who owns Arrowhead Mountain Spring Water brand, changed its name to BlueTriton Brands, Inc. and requested Watermaster to use the new company name.

Other Adj:

- 1) CDA provided 41.645 AF to JCSD for irrigation at Orchard Park.
- 2) Monte Vista Water District received credit of 4.698 AF after evaporative losses due to Pump-to-Waste activities in which the water was recaptured into a recharge basin.
- 3) Santa Ana River Water Company exceeded its allotment with JCSD by 175.498 AF.
- 4) City of Upland received credit of 70.098 AF after evaporative losses due to Pump-to-Waste activities in which the water was recaptured into a recharge basin.



Water Production Summary

	Percent of	Carryover	Prior Year	Assigned	Net Ag Pool	Water	Other	Annual	Actual	Storage and	Total	Net Over-P	roduction	Unde	r Production Bala	ances
	Operating Safe Yield	Beginning Balance	Adjustments	Share of Operating Safe Yield	Reallocation	Transaction Activity	Adjustments	Production Right	Fiscal Year Production	Recovery Program(s)	Production and Exchanges	85/15%	100%	Total Under- Produced	Carryover: Next Year Begin Bal	To Excess Carryover Account
BlueTriton Brands, Inc.	0.000%	0.0	0.0	0.0	0.0	271.3	0.0	271.3	271.3	0.0	271.3	0.0	0.0	0.0	0.0	0.0
CalMat Co. (Appropriative)	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chino Hills, City Of	3.851%	1,726.6	0.0	1,572.5	2,417.9	0.0	0.0	5,716.9	2,459.6	0.0	2,459.6	0.0	0.0	3,257.3	1,572.5	1,684.8
Chino, City Of	7.357%	3,298.4	0.0	3,004.2	11,194.4	0.0	0.0	17,497.0	2,762.4	0.0	2,762.4	0.0	0.0	14,734.6	3,004.2	11,730.4
Cucamonga Valley Water District	6.601%	1,596.4	0.0	2,695.5	2,552.2	35.6	0.0	6,879.7	26,225.7	(20,500.0)	5,725.7	0.0	0.0	1,154.0	1,154.0	0.0
Desalter Authority	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40,114.5	0.0	40,114.5	0.0	40,114.5	0.0	0.0	0.0
Fontana Union Water Company	11.657%	0.0	0.0	4,760.0	3,450.3	(8,210.3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fontana Water Company	0.002%	0.9	0.0	0.8	834.6	10,229.0	0.0	11,065.3	13,565.3	(2,500.0)	11,065.3	0.0	0.0	0.0	0.0	0.0
Fontana, City Of	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Golden State Water Company	0.750%	323.6	0.0	306.3	222.0	222.5	0.0	1,074.4	1,074.4	0.0	1,074.4	0.0	0.0	0.0	0.0	0.0
Jurupa Community Services District	3.759%	1,685.3	0.0	1,535.0	16,328.0	0.0	0.0	19,548.3	10,609.9	0.0	10,609.9	0.0	0.0	8,938.4	1,535.0	7,403.4
Marygold Mutual Water Company	1.195%	399.3	0.0	488.0	353.7	0.0	0.0	1,240.9	840.9	0.0	840.9	0.0	0.0	400.0	400.0	0.0
Monte Vista Irrigation Company	1.234%	553.3	0.0	503.9	365.2	0.0	0.0	1,422.4	0.0	0.0	0.0	0.0	0.0	1,422.4	503.9	918.5
Monte Vista Water District	8.797%	3,944.0	0.0	3,592.2	2,709.4	500.0	0.0	10,745.6	7,523.3	0.0	7,523.3	0.0	0.0	3,222.3	3,222.3	0.0
NCL Co, LLC	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Niagara Bottling, LLC	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,751.7	0.0	1,751.7	0.0	1,751.7	0.0	0.0	0.0
Nicholson Family Trust	0.007%	3.1	0.0	2.9	2.1	(6.5)	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0
Norco, City Of	0.368%	165.0	0.0	150.3	108.9	0.0	0.0	424.2	0.0	0.0	0.0	0.0	0.0	424.2	150.3	273.9
Ontario, City Of	20.742%	9,299.5	0.0	8,469.8	10,807.7	0.0	0.0	28,576.9	17,171.1	0.0	17,171.1	0.0	0.0	11,405.8	8,469.8	2,936.0
Pomona, City Of	20.454%	9,170.3	0.0	8,352.2	6,054.1	0.0	0.0	23,576.6	9,192.2	0.0	9,192.2	0.0	0.0	14,384.5	8,352.2	6,032.3
San Antonio Water Company	2.748%	1,232.0	0.0	1,122.1	813.4	0.0	0.0	3,167.5	676.5	0.0	676.5	0.0	0.0	2,491.0	1,122.1	1,368.9
San Bernardino, County of (Shooting P	0.000%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	17.2	17.2	0.0	0.0	0.0	0.0
Santa Ana River Water Company	2.373%	1,063.9	0.0	969.0	702.4	0.0	0.0	2,735.3	175.5	0.0	175.5	0.0	0.0	2,559.8	969.0	1,590.8
Upland, City Of	5.202%	2,332.3	0.0	2,124.2	1,539.7	0.0	0.0	5,996.2	2,107.0	0.0	2,107.0	0.0	0.0	3,889.2	2,124.2	1,765.0
West End Consolidated Water Co	1.728%	774.7	0.0	705.6	511.5	0.0	0.0	1,991.8	0.0	0.0	0.0	0.0	0.0	1,991.8	705.6	1,286.2
West Valley Water District	1.175%	526.8	0.0	479.8	347.8	0.0	0.0	1,354.4	0.0	0.0	0.0	0.0	0.0	1,354.4	479.8	874.6
	100.00%	38,095.5	0.0	40,834.0	61,315.2	3,041.6	0.0	143,286.3	136,538.4	(23,000.0)	113,538.4	17.2	41,866.1	71,631.2	33,766.4	37,864.8
Less Desalter Authority Production									(40,114.5)		(40,114.5)	_	(40,114.5)			
Total Less Desalter Authority Production	10A	10B	10C	10D	10E	10F	10G	10H	96,423.9 10I	10J	73,423.9 10K	10L	1,751.7 10M	10N	100	10P
		.03														

¹⁾ As of July 1, 2020, the total Operating Safe Yield of the Appropriative Pool is 40,834 AF, allocated by percentage of Operating Safe Yield.

²⁾ In April 2021, Nestle Waters North America Inc., who owns Arrowhead Mountain Spring Water brand, changed its name to BlueTriton Brands, Inc. and requested Watermaster to use the new company name.



Local Excess Carry Over Storage Account Summary

		E	xcess Carry Ove	er Account (ECO)		
	Beginning Balance	0.07% Storage Loss	Transfers To / (From)	From Supplemental Storage	From Under- Production	Ending Balance
BlueTriton Brands, Inc.	720.9	(0.5)	(278.1)	0.0	0.0	442.3
CalMat Co. (Appropriative)	0.4	0.0	0.0	0.0	0.0	0.4
Chino Hills, City Of	11,924.2	(8.3)	(369.1)	0.0	1,684.8	13,231.5
Chino, City Of	114,505.8	(80.2)	(2,617.2)	0.0	11,730.4	123,538.9
Cucamonga Valley Water District	16,072.4	(11.3)	(846.7)	0.0	0.0	15,214.4
Desalter Authority	0.0	0.0	0.0	0.0	0.0	0.0
Fontana Union Water Company	0.0	0.0	0.0	0.0	0.0	0.0
Fontana Water Company	5,799.2	(4.1)	(3,883.0)	2,722.5	0.0	4,634.7
Fontana, City Of	0.0	0.0	0.0	0.0	0.0	0.0
Golden State Water Company	424.2	(0.3)	(484.6)	60.8	0.0	0.0
Jurupa Community Services District	31,861.3	(22.3)	(2,783.9)	0.0	7,403.4	36,458.5
Marygold Mutual Water Company	614.0	(0.4)	0.0	0.0	0.0	613.6
Monte Vista Irrigation Company	10,128.4	(7.1)	(177.3)	0.0	918.5	10,862.5
Monte Vista Water District	6,758.6	(4.7)	(1,490.1)	0.0	0.0	5,263.8
NCL Co, LLC	4.0	0.0	0.0	0.0	0.0	4.0
Niagara Bottling, LLC	0.0	0.0	0.0	0.0	0.0	0.0
Nicholson Family Trust	1.7	0.0	(1.0)	0.0	0.0	0.7
Norco, City Of	2,375.1	(1.7)	(52.9)	0.0	273.9	2,594.5
Ontario, City Of	39,260.7	(27.5)	0.0	0.0	2,936.0	42,169.2
Pomona, City Of	25,207.9	(17.6)	(4,259.1)	0.0	6,032.3	26,963.4
San Antonio Water Company	2,873.4	(2.0)	0.0	0.0	1,368.9	4,240.2
San Bernardino, County of (Shooting Park)	0.0	0.0	0.0	0.0	0.0	0.0
Santa Ana River Water Company	6,433.6	(4.5)	(366.1)	0.0	1,590.8	7,653.7
Upland, City Of	19,264.0	(13.5)	(878.8)	0.0	1,765.0	20,136.7
West End Consolidated Water Co	5,204.3	(3.6)	(162.1)	0.0	1,286.2	6,324.8
West Valley Water District	8,322.8	(5.8)	(1,168.8)	0.0	874.6	8,022.8
	307,756.9	(215.4)	(19,819.0)	2,783.3	37,864.8	328,370.5
	11A	11B	11C	11D	11E	11F

¹⁾ Fontana Water Company transferred 2,722.510 AF from their Supplemental Storage account to offset their production year 2020/21 over-production obligations.

²⁾ Golden State Water Company transferred 60.754 from their Supplemental Storage account and 161.780 AF from their Excess Carry Over Storage account to offset their production year 2020/21 over-production obligations.

³⁾ In April 2021, Nestle Waters North America Inc., who owns Arrowhead Mountain Spring Water brand, changed its name to BlueTriton Brands, Inc. and requested Watermaster to use the new company name.



Local Supplemental Storage Account Summary

		Recharged Recycled Account				Quantified (Pre 7/1/2000) Account				New (Post 7/1/2000) Account				Combined		
	Beginning Balance	0.07% Storage Loss	Transfers To / (From)	Transfer to ECO Account	Ending Balance	Beginning Balance	0.07% Storage Loss	Transfers To / (From)	Transfer to ECO Account	Ending Balance	Beginning Balance	0.07% Storage Loss	Transfers To / (From)	Transfer to ECO Account	Ending Balance	Ending Balance
BlueTriton Brands, Inc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CalMat Co. (Appropriative)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chino Hills, City Of	11,105.8	(7.8)	1,416.0	0.0	12,514.0	4,789.4	(3.4)	0.0	0.0	4,786.1	0.0	0.0	0.0	0.0	0.0	17,300.1
Chino, City Of	8,508.6	(6.0)	0.0	0.0	8,502.6	1,051.8	(0.7)	0.0	0.0	1,051.0	1,926.6	(1.3)	0.0	0.0	1,925.3	11,478.9
Cucamonga Valley Water District	31,078.7	(21.8)	9,035.5	0.0	40,092.5	10,693.4	(7.5)	0.0	0.0	10,685.9	637.9	(0.4)	255.2	0.0	892.7	51,671.1
Desalter Authority	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fontana Union Water Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fontana Water Company	0.0	0.0	3,082.6	(2,722.5)	360.1	0.0	0.0	0.0	0.0	0.0	310.1	(0.2)	0.0	0.0	309.9	670.0
Fontana, City Of	44.0	0.0	0.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0
Golden State Water Company	0.0	0.0	0.0	0.0	0.0	1,389.0	(1.0)	0.0	(3.6)	1,384.4	57.2	0.0	0.0	(57.2)	0.0	1,384.4
Jurupa Community Services District	4,832.4	(3.4)	0.0	0.0	4,829.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,829.0
Marygold Mutual Water Company	0.0	0.0	0.0	0.0	0.0	305.0	(0.2)	(292.5)	0.0	12.3	0.0	0.0	0.0	0.0	0.0	12.3
Monte Vista Irrigation Company	0.0	0.0	0.0	0.0	0.0	5,450.0	(3.8)	0.0	0.0	5,446.2	0.0	0.0	0.0	0.0	0.0	5,446.2
Monte Vista Water District	0.0	0.0	0.0	0.0	0.0	3,376.5	(2.4)	0.0	0.0	3,374.2	1.6	0.0	(1.6)	0.0	0.0	3,374.2
NCL Co, LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Niagara Bottling, LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nicholson Family Trust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Norco, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.4	(0.1)	0.0	0.0	96.3	96.3
Ontario, City Of	49,233.2	(34.5)	(2,420.0)	0.0	46,778.8	8,050.1	(5.6)	0.0	0.0	8,044.5	0.0	0.0	0.0	0.0	0.0	54,823.2
Pomona, City Of	0.0	0.0	0.0	0.0	0.0	10,912.1	(7.6)	0.0	0.0	10,904.4	1,559.9	(1.1)	0.0	0.0	1,558.8	12,463.2
San Antonio Water Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,759.5	(3.3)	(104.5)	0.0	4,651.7	4,651.7
San Bernardino, County of (Shooting Park)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Santa Ana River Water Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	481.1	(0.3)	0.0	0.0	480.7	480.7
Upland, City Of	12,078.4	(8.5)	1,481.7	0.0	13,551.6	5,803.2	(4.1)	0.0	0.0	5,799.1	0.0	0.0	0.0	0.0	0.0	19,350.7
West End Consolidated Water Co	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	452.5	(0.3)	0.0	0.0	452.2	452.2
West Valley Water District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.7	(0.2)	0.0	0.0	307.5	307.5
	116,881.1	(81.8)	12,595.9	(2,722.5)	126,672.7	51,820.4	(36.3)	(292.5)	(3.6)	51,488.1	10,590.5	(7.4)	149.0	(57.2)	10,675.0	188,835.7
	12A	12B	12C	12D	12E	12F	12G	12H	121	12J	12K	12L	12M	12N	120	12P

¹⁾ City of Ontario elected not to take in their share of Recharged Recycled. Cucamonga Valley Water District subsequently elected to take in City of Ontario's share.

²⁾ City of Ontario elected not to take in the 3,000 AF of City of Fontana's share of Recharged Recycled. Fontana Water Company subsequently elected to take in all of City of Fontana's share, which they then transferred 2,722.510 AF to offset their production year 2020/21 over-production obligations.

³⁾ Golden State Water Company transferred 3.593 AF and 57.161 AF from their Quantified and New Supplemental storage accounts respectively to offset a portion of their production year 2020/21 over-production obligations.

⁴⁾ In April 2021, Nestle Waters North America Inc., who owns Arrowhead Mountain Spring Water brand, changed its name to BlueTriton Brands, Inc. and requested Watermaster to use the new company name.



Other Storage and Replenishment Accounts

DESALTER REPLENISHMENT	Beginning Balance	Water Purchases	Transfers To	Transfers From	Ending Balance
CONTROLLED OVERDRAFT AND OFFSETS					
Re-Op Offset Pre-Peace II / CDA	1,286.7		0.0	0.0	1,286.7
Re-Op Offset Peace II Expansion	87,500.0		0.0	(12,500.0)	75,000.0
Non-Ag OBMP Special Assessment	0.0		735.0	(735.0)	0.0
Non-Ag Dedication	0.0		0.0	0.0	0.0
	88,786.7		735.0	(13,235.0)	76,286.7
DEDICATED REPLENISHMENT					
BlueTriton Brands, Inc.	0.0	0.0	32.1	(32.1)	0.0
CalMat Co. (Appropriative)	0.0	0.0	0.0	0.0	0.0
Chino Hills, City Of	602.9	0.0	0.0	(602.9)	0.0
Chino, City Of	0.0	0.0	0.0	0.0	0.0
Cucamonga Valley Water District	952.5	0.0	0.0	(952.5)	0.0
Fontana Union Water Company	0.0	0.0	1,674.7	(1,674.7)	0.0
Fontana Water Company	469.0	0.0	0.0	(469.0)	0.0
Fontana, City Of	0.0	0.0	0.0	0.0	0.0
Golden State Water Company	0.0	0.0	0.0	0.0	0.0
Jurupa Community Services District	0.0	0.0	0.0	0.0	0.0
Marygold Mutual Water Company	0.0	0.0	0.0	0.0	0.0
Monte Vista Irrigation Company	0.0	0.0	0.0	0.0	0.0
Monte Vista Water District	0.0	0.0	0.0	0.0	0.0
NCL Co, LLC	0.0	0.0	0.0	0.0	0.0
Niagara Bottling, LLC	0.0	0.0	0.0	0.0	0.0
Nicholson Family Trust	0.0	0.0	0.0	0.0	0.0
Norco, City Of	0.0	0.0	0.0	0.0	0.0
Ontario, City Of	0.0	0.0	3,461.1	(3,461.1)	0.0
Pomona, City Of	0.0	0.0	0.0	0.0	0.0
San Antonio Water Company	281.8	0.0	0.0	(281.8)	0.0
San Bernardino, County of (Shooting Park)	0.0	0.0	0.0	0.0	0.0
Santa Ana River Water Company	0.0	0.0	0.0	0.0	0.0
Upland, City Of	171.2	0.0	0.0	(171.2)	0.0
West End Consolidated Water Co	86.1	0.0	0.0	(86.1)	0.0
West Valley Water District	0.0	0.0	0.0	0.0	0.0
	2,563.5	0.0	5,167.9	(7,731.4)	0.0
	13A	13B	13C	13D	13E
STORAGE AND RECOVERY	Beginning Balance	Storage Loss	Transfers To	Transfers From	Ending Balance
METROPOLITAN WATER DISTRICT					
Dry Year Yield / Conjuctive Use Program	45,961.0	(32.2)	0.0	(23,000.0)	22,928.8

Notes:

Water in column [13D] goes into column [21D] on page 21.1.

13G

13H

131

13J

13F



Water Transaction Summary

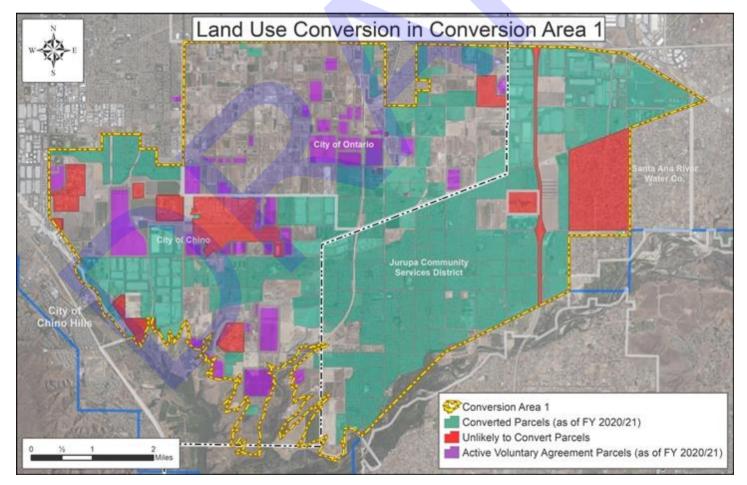
	Water Transactions										
	Assigned Rights	General Transfer	Transfers (To) / From ECO Account	Transfers (To) Desalter Replenishment	Total Water Transactions						
BlueTriton Brands, Inc.	0.0	32.1	271.3	(32.1)	271.3						
CalMat Co. (Appropriative)	0.0	0.0	0.0	0.0	0.0						
Chino Hills, City Of	0.0	0.0	0.0	0.0	0.0						
Chino, City Of	(500.0)	0.0	500.0	0.0	0.0						
Cucamonga Valley Water District	(6,500.0)	6,535.6	0.0	0.0	35.6						
Desalter Authority	0.0	0.0	0.0	0.0	0.0						
Fontana Union Water Company	0.0	(6,535.6)	0.0	(1,674.7)	(8,210.3)						
Fontana Water Company	7,506.5	0.0	2,722.5	0.0	10,229.0						
Fontana, City Of	0.0	0.0	0.0	0.0	0.0						
Golden State Water Company	0.0	0.0	222.5	0.0	222.5						
Jurupa Community Services District	0.0	0.0	0.0	0.0	0.0						
Marygold Mutual Water Company	0.0	0.0	0.0	0.0	0.0						
Monte Vista Irrigation Company	0.0	0.0	0.0	0.0	0.0						
Monte Vista Water District	500.0	0.0	0.0	0.0	500.0						
NCL Co, LLC	0.0	0.0	0.0	0.0	0.0						
Niagara Bottling, LLC	0.0	0.0	0.0	0.0	0.0						
Nicholson Family Trust	(6.5)	0.0	0.0	0.0	(6.5)						
Norco, City Of	0.0	0.0	0.0	0.0	0.0						
Ontario, City Of	0.0	3,461.1	0.0	(3,461.1)	0.0						
Pomona, City Of	0.0	0.0	0.0	0.0	0.0						
San Antonio Water Company	0.0	0.0	0.0	0.0	0.0						
San Bernardino, County of (Shooting Park)	0.0	0.0	0.0	0.0	0.0						
Santa Ana River Water Company	0.0	0.0	0.0	0.0	0.0						
Upland, City Of	0.0	0.0	0.0	0.0	0.0						
West End Consolidated Water Co	0.0	0.0	0.0	0.0	0.0						
West Valley Water District	(1,000.0)	0.0	1,000.0	0.0	0.0						
	0.0	3,493.2	4,716.3	(5,167.9)	3,041.6						
	14A	14B	14C	14D	14E						

¹⁾ In April 2021, Nestle Waters North America Inc., who owns Arrowhead Mountain Spring Water brand, changed its name to BlueTriton Brands, Inc. and requested Watermaster to use the new company name.



Land Use Conversion Summary

	Prior	Conversion	@ 1.3 af/ac	Total Prior to Peace Agrmt	Conversion @ 2.0 af/ac		Total Land Use Conversion
	Conversion	Acres	Acre-Feet	Converted AF	Acres	Acre-Feet	Acre-Feet
Chino Hills, City Of	0.0	670.266	871.3	871.3	203.334	406.7	1,278.0
Chino, City Of	196.2	1,434.750	1,865.2	2,061.4	3,477.695	6,955.4	9,016.8
Cucamonga Valley Water District	0.0	460.280	598.4	598.4	0.000	0.0	598.4
Fontana Water Company	0.0	0.000	0.0	0.0	417.000	834.0	834.0
Jurupa Community Services District	0.0	2,756.920	3,584.0	3,584.0	5,815.718	11,631.4	15,215.4
Monte Vista Water District	0.0	48.150	62.6	62.6	21.510	43.0	105.6
Ontario, City Of	209.4	527.044	685.2	894.6	1,886.892	3,773.8	4,668.3
	405.6	5,897.410	7,666.6	8,072.3	11,822.149	23,644.3	31,716.6
	15A	15B	15C	15D	15E	15F	15G



Notes:

In August 2020, 20 acres of eligible "Outside Conversion Area 1" parcels were transferred from City of Chino to Monte Vista Water District after it was realized that they are within MVWD's service area. This was accounted for in the previous Assessment Package; past years' credit was resolved through a water transaction in this year's Assessment Package (see page 23.1 for details).



Agricultural Pool Reallocation Summary

		Re	eallocation of Agricu	itural Pool Safe Yi	eld
	% Share of Operating Safe Yield	Safe Yield Reduction ¹	Land Use Conversions	Early Transfer	Total AG Pool Reallocation
BlueTriton Brands, Inc.	0.000%	0.0	0.0	0.0	0.0
CalMat Co. (Appropriative)	0.000%	0.0	0.0	0.0	0.0
Chino Hills, City Of	3.851%	346.6	1,278.0	793.3	2,417.9
Chino, City Of	7.357%	662.1	9,016.8	1,515.4	11,194.4
Cucamonga Valley Water District	6.601%	594.1	598.4	1,359.7	2,552.2
Desalter Authority	0.000%	0.0	0.0	0.0	0.0
Fontana Union Water Company	11.657%	1,049.1	0.0	2,401.2	3,450.3
Fontana Water Company	0.002%	0.2	834.0	0.4	834.6
Fontana, City Of	0.000%	0.0	0.0	0.0	0.0
Golden State Water Company	0.750%	67.5	0.0	154.5	222.0
Jurupa Community Services District	3.759%	338.3	15,215.4	774.3	16,328.0
Marygold Mutual Water Company	1.195%	107.6	0.0	246.2	353.7
Monte Vista Irrigation Company	1.234%	111.1	0.0	254.2	365.2
Monte Vista Water District	8.797%	791.7	105.6	1,812.1	2,709.4
NCL Co, LLC	0.000%	0.0	0.0	0.0	0.0
Niagara Bottling, LLC	0.000%	0.0	0.0	0.0	0.0
Nicholson Family Trust	0.007%	0.6	0.0	1.4	2.1
Norco, City Of	0.368%	33.1	0.0	75.8	108.9
Ontario, City Of	20.742%	1,866.8	4,668.3	4,272.6	10,807.7
Pomona, City Of	20.454%	1,840.9	0.0	4,213.2	6,054.1
San Antonio Water Company	2.748%	247.3	0.0	566.1	813.4
San Bernardino, County of (Shooting Park)	0.000%	0.0	0.0	0.0	0.0
Santa Ana River Water Company	2.373%	213.6	0.0	488.8	702.4
Upland, City Of	5.202%	468.2	0.0	1,071.5	1,539.7
West End Consolidated Water Co	1.728%	155.5	0.0	355.9	511.5
West Valley Water District	1.175%	105.8	0.0	242.0	347.8
Agricultural Pool Safe Yield 82,800.0	100%	9,000.0	31,716.6	20,598.6	61,315.2
Agricultural Pool Production (21,484.8) Safe Yield Reduction¹ (9,000.0) Land Use Conversions (31,716.6) Early Transfer [16D] 20,598.6	16A	16B	16C	16D	16E

¹ Paragraph 10, Subdivision (a)(1) of Exhibit "H" of the Judgment states "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."



Cumulative Unmet Replenishment Obligation (CURO)

 Remaining Replenishment Obligation:
 AF

 Appropriative - 100
 0.0

 Appropriative - 15/85
 0.0

 Non-Agricultural - 100
 0.0

 0.0
 0.0

 Replenishment Rates

 2021 Rate
 \$789.00

 2020 Rate
 \$767.00

ool:	3 A _I	opro	priative
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Company	Outstanding Obligation (AF)	Fund Balance (\$)	Outstanding Obligation (\$)	AF Production and Exchanges	85/15 Producers	Percent	15%	85%	100%	Total
BlueTriton Brands, Inc.	0.0	\$135.86	(\$135.86)	271.3	xxxxxxxxx	0.000%	$\times \times $	$\times \times $	(\$135.86)	(\$135.86)
CalMat Co. (Appropriative)	0.0	\$0.00	\$0.00	0.0	xxxxxxxxx	0.000%	XXXXXXXXX	XXXXXXXXX	\$0.00	\$0.00
Chino Hills, City Of	0.0	\$0.00	\$0.00	2,459.6	2,459.6	4.008%	\$0.40	\$0.00	XXXXXXXXX	\$0.40
Chino, City Of	0.0	\$0.00	\$0.00	2,762.4	2,762.4	4.501%	\$0.45	\$0.00	XXXXXXXX	\$0.45
Cucamonga Valley Water District	0.0	\$0.01	(\$0.01)	5,725.7	5,725.7	9.330%	\$0.93	(\$0.01)	XXXXXXXX	\$0.92
Desalter Authority	0.0	\$0.00	\$0.00	40,114.5	xxxxxxxxx	0.000%	XXXXXXXXX	$\times \times $	XXXXXXXXX	\$0.00
Fontana Union Water Company	0.0	\$0.00	\$0.00	0.0	0.0	0.000%	\$0.00	\$0.00	$\times \times $	\$0.00
Fontana Water Company	0.0	\$0.01	(\$0.01)	11,065.3	11,065.3	18.031%	\$1.80	(\$0.01)	XXXXXXXXX	\$1.79
Fontana, City Of	0.0	\$0.00	\$0.00	0.0	xxxxxxxxxx	0.000%	XXXXXXXXX	$\times \times $	\$0.00	\$0.00
Golden State Water Company	0.0	\$0.00	\$0.00	1,074.4	1,074.4	1.751%	\$0.18	\$0.00	$\times \times $	\$0.18
Jurupa Community Services District	0.0	\$0.00	\$0.00	10,609.9	10,609.9	17.289%	\$1.73	\$0.00	XXXXXXXXX	\$1.73
Marygold Mutual Water Company	0.0	\$0.00	\$0.00	840.9	$\times \times $	0.000%	XXXXXXXXX	XXXXXXXXX	\$0.00	\$0.00
Monte Vista Irrigation Company	0.0	\$0.00	\$0.00	0.0	0.0	0.000%	\$0.00	\$0.00	$\times \times $	\$0.00
Monte Vista Water District	0.0	\$0.00	\$0.00	7,523.3	7,523.3	12.259%	\$1.23	\$0.00	XXXXXXXXX	\$1.23
NCL Co, LLC	0.0	\$0.00	\$0.00	0.0	$\times \times $	0.000%	XXXXXXXXX	XXXXXXXXX	\$0.00	\$0.00
Niagara Bottling, LLC	0.0	(\$18,212.89)	\$18,212.89	1,751.7	$\times \times $	0.000%	XXXXXXXXX	$\times \times $	\$18,212.89	\$18,212.89
Nicholson Family Trust	0.0	\$0.00	\$0.00	0.0	0.0	0.000%	\$0.00	\$0.00	$\times \times $	\$0.00
Norco, City Of	0.0	\$0.00	\$0.00	0.0	0.0	0.000%	\$0.00	\$0.00	XXXXXXXX	\$0.00
Ontario, City Of	0.0	\$0.01	(\$0.01)	17,171.1	17,171.1	27.981%	\$2.80	(\$0.01)	XXXXXXXXX	\$2.79
Pomona, City Of	0.0	\$0.00	\$0.00	9,192.2	XXXXXXXXX	0.000%	XXXXXXXXX	$\times \times $	\$0.00	\$0.00
San Antonio Water Company	0.0	\$0.00	\$0.00	676.5	676.5	1.102%	\$0.11	\$0.00	$\times \times $	\$0.11
San Bernardino, County of (Shooting Park)	0.0	(\$66.72)	\$66.72	17.2	17.2	0.028%	\$0.00	\$56.71	XXXXXXXXX	\$56.71
Santa Ana River Water Company	0.0	\$0.00	\$0.00	175.5	175.5	0.286%	\$0.03	\$0.00	XXXXXXXX	\$0.03
Upland, City Of	0.0	\$0.00	\$0.00	2,107.0	2,107.0	3.433%	\$0.34	\$0.00	XXXXXXXXX	\$0.34
West End Consolidated Water Co	0.0	\$0.00	\$0.00	0.0	0.0	0.000%	\$0.00	\$0.00	XXXXXXXXX	\$0.00
West Valley Water District	0.0	\$0.00	\$0.00	0.0	0.0	0.000%	\$0.00	\$0.00	$\times \times $	\$0.00
Pool 3 Appropriative Total	0.0	(\$18,143.72)	\$18,143.72	113,538.4	61,367.9	100.000%	\$10.00	\$56.68	\$18,077.03	\$18,143.71
	17A	17B	17C	17D	17E	17F	17G	17H	171	17J

¹⁾ The 2021 replenishment rate includes MWD's Full Service Untreated Tier 1 volumic cost of \$777/AF, a \$10/AF surcharge from Three Valleys Municipal Water District, and a \$2/AF connection fee from Orange County Water District.



Desalter Replenishment Accounting¹

		Desalter Production		Desalter Replenishment									
Production					Paragraph 31		Safe Yield	Controlled	Overdraft / Re-Op, PIIA	A, 6.2(a)(vi)	Appropriative	Non-Ag OBMP	Remaining Desalter
Year	Pre-Peace II Desalter Production	Peace II Desalter Expansion Production ²	Total	Desalter (aka Kaiser) Account PIIA, 6.2 (a)(i)	Settlement Agreements Dedication ³ PIIA, 6.2(a)(ii)	"Leave Behind" Losses PIIA, 6.2(a)(iv)	Contributed by Parties PIIA, 6.2(a)(v)	Allocation to Pre-Peace II Desalters ^{4,8}	Allocation to All Desalters	Balance	Pool DRO Contribution PIIA, 6.2(b)(ii)	Assessment (10% Haircut) ⁶ PIIA, 6.2(b)(i)	Replenishment Obligation ⁴⁻⁷ PIIA, 6.2(b)(iii)
2000 / 2001	7,989.0	0.0	7,989.0	3,994.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,994.5
2001 / 2002	9,457.8	0.0	9,457.8	4,728.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,728.9
2002 / 2003	10,438.5	0.0	10,438.5	5,219.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,219.3
2003 / 2004	10,605.0	0.0	10,605.0	5,302.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,302.5
2004 / 2005	9,853.6	0.0	9,853.6	4,926.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,926.8
2005 / 2006	16,475.8	0.0	16,475.8	11,579.1	0.0	0.0	0.0	0.0	0.0	400,000.0	0.0	0.0	4,896.7
2006 / 2007	26,356.2	0.0	26,356.2	608.4	4,273.1	0.0	0.0	21,474.7	0.0	378,525.3	0.0	0.0	0.0
2007 / 2008	26,972.1	0.0	26,972.1	0.0	0.0	0.0	0.0	26,972.1	0.0	351,553.2	0.0	0.0	0.0
2008 / 2009	32,920.5	0.0	32,920.5	0.0	0.0	0.0	0.0	61,989.1	0.0	289,564.1	0.0	0.0	(29,068.6)
2009 / 2010	28,516.7	0.0	28,516.7	0.0	0.0	0.0	0.0	28,516.7	0.0	261,047.4	0.0	0.0	0.0
2010 / 2011	29,318.7	0.0	29,318.7	0.0	0.0	0.0	0.0	29,318.7	0.0	231,728.7	0.0	0.0	0.0
2011 / 2012	28,378.9	0.0	28,378.9	0.0	0.0	0.0	0.0	28,378.9	0.0	203,349.7	0.0	0.0	0.0
2012 / 2013	27,061.7	0.0	27,061.7	0.0	0.0	0.0	0.0	27,061.7	0.0	176,288.1	0.0	0.0	0.0
2013 / 2014	29,228.0	14.6	29,242.6	0.0	0.0	0.0	0.0	0.0	12,500.0	163,788.1	10,000.0	0.0	6,742.6
2014 / 2015	29,541.3	448.7	29,990.0	0.0	0.0	0.0	0.0	0.0	12,500.0	151,288.1	10,000.0	0.0	7,490.0
2015 / 2016	27,008.8	1,154.1	28,162.9	0.0	0.0	0.0	0.0	0.0	12,500.0	138,788.1	10,000.0	0.0	5,662.9
2016 / 2017	26,725.6	1,527.2	28,252.8	0.0	0.0	0.0	0.0	0.0	12,500.0	126,288.1	10,000.0	735.0	5,017.8
2017 / 2018	28,589.8	1,462.5	30,052.3	0.0	0.0	0.0	0.0	0.0	12,500.0	113,788.1	10,000.0	735.0	6,817.3
2018 / 2019	25,502.9	5,696.3	31,199.2	0.0	0.0	0.0	0.0	0.0	12,500.0	101,288.1	10,000.0	735.0	7,964.2
2019 / 2020	27,593.6	8,003.4	35,597.1	0.0	0.0	0.0	0.0	0.0	12,500.0	88,788.1	10,000.0	735.0	12,362.0
2020 / 2021	31,944.8	8,169.7	40,114.5	0.0	0.0	0.0	0.0	0.0	12,500.0	76,288.1	10,000.0	735.0	16,879.4
2021 / 2022	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	12,500.0	63,788.1	10,000.0	735.0	16,765.0
2022 / 2023	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	12,500.0	51,288.1	10,000.0	735.0	16,765.0
2023 / 2024	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	12,500.0	38,788.1	10,000.0	735.0	16,765.0
2024 / 2025	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	12,500.0	26,288.1	10,000.0	735.0	16,765.0
2025 / 2026	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	5,000.0	21,288.1	10,000.0	735.0	24,265.0
2026 / 2027	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	5,000.0	16,288.1	10,000.0	735.0	24,265.0
2027 / 2028	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	5,000.0	11,288.1	10,000.0	735.0	24,265.0
2028 / 2029	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	5,000.0	6,288.1	10,000.0	735.0	24,265.0
2029 / 2030	30,000.0	10,000.0	40,000.0	0.0	0.0	0.0	0.0	0.0	5,000.0	1,288.1	10,000.0	735.0	24,265.0
	760,479.4	116,476.5	876,955.9	36,359.6	4,273.1	0.0	0.0	223,711.9	175,000.0		170,000.0	10,290.5	257,321.1
	18A	18B	18C	18D	18E	18F	18G	18H	181	18J	18K	18L	18M

- 1 Original table format and content: WEI, Response to Condition Subsequent Number 7, November 2008. Table has since been revised as a result of the March 15, 2019 Court Order.
- ² Peace II Desalter Expansion was anticipated to have an annual production of approximately 10,000 AF.
- 3,956.877 acre-feet + 316.177 acre-feet added as Non-Ag dedicated stored water per Paragraph 31 Settlement Agreements. Per Agreements, the water is deemed to have been dedicated as of June 30, 2007.

⁴ Six years of Desalter tracking (Production Year 2000-2001 through Production Year 2005/2006) may have incorrectly assumed that a significant portion of Desalter Induced Recharge. Condition Subsequent 7 included an adjustment of 29,070 AF against Desalter replenishment in Production Year 2008/2009.

⁵ Pursuant to section 7.2(e)(ii) of the Peace II Agreement, the initial schedule for the Peace II Desalter Expansion controlled overdraft of 175,000 acre-feet had been amended to be allocated to Desalter replenishment over a 17-year period, beginning in 2013/14 and ending in 2029/30.

⁶ For the first 10 years following the Peace II Agreement (2006/2007 through 2015/2016), the Non-Ag "10% Haircut" water is apportioned among the specific seven members of the Appropriative Pool, per PIIA 9.2(a). In the eleventh year and in each year thereafter, it is dedicated to Watermaster to further offset desalter replenishment. However, to the extent there is no remaining desalter replenishment obligation in any year after applying the offsets set forth in 6.2(a), it will be distributed pro rata among the members of the Appropriative Pool based upon each Producer's combined total share of OSY and the previous year's actual production.

⁷ Per the Peace II Agreement, Section 6.2(b)(iii) (as amended by the March 15, 2019 Court Order), the Remaining Desalter Replenishment Obligation is to be assessed against the Appropriative Pool, pro-rata based on each Producer's combined total share of OSY and their Adjusted Physical Production.

⁸ Due to the Re-Operation Schedule amendments in 2019, the Pre-Peace II Controlled Overdraft is left with a balance of 1,288.054 AF, which may be utilized at a later date to offset a future Desalter Replenishment Obligation.



Desalter Replenishment Obligation Contribution

	Percent of Operating Safe Yield	Land Use Conversions	Percent of Land Use Conversions	85% DROC Based on % OSY	15% DROC Based on % of LUC	Total DRO Contribution
BlueTriton Brands, Inc.	0.000%	0.0	0.000%	0.0	0.0	0.0
CalMat Co. (Appropriative)	0.000%	0.0	0.000%	0.0	0.0	0.0
Chino Hills, City Of	3.851%	1,278.0	4.029%	327.3	60.4	387.8
Chino, City Of	7.357%	9,016.8	28.429%	625.3	426.4	1,051.8
Cucamonga Valley Water District	6.601%	598.4	1.887%	561.1	28.3	589.4
Fontana Union Water Company	11.657%	0.0	0.000%	990.8	0.0	990.8
Fontana Water Company	0.002%	834.0	2.630%	0.2	39.4	39.6
Fontana, City Of	0.000%	0.0	0.000%	0.0	0.0	0.0
Golden State Water Company	0.750%	0.0	0.000%	63.8	0.0	63.8
Jurupa Community Services District	3.759%	15,215.4	47.973%	319.5	719.6	1,039.1
Marygold Mutual Water Company	1.195%	0.0	0.000%	101.6	0.0	101.6
Monte Vista Irrigation Company	1.234%	0.0	0.000%	104.9	0.0	104.9
Monte Vista Water District	8.797%	105.6	0.333%	747.7	5.0	752.7
NCL Co, LLC	0.000%	0.0	0.000%	0.0	0.0	0.0
Niagara Bottling, LLC	0.000%	0.0	0.000%	0.0	0.0	0.0
Nicholson Family Trust	0.007%	0.0	0.000%	0.6	0.0	0.6
Norco, City Of	0.368%	0.0	0.000%	31.3	0.0	31.3
Ontario, City Of	20.742%	4,668.3	14.719%	1,763.1	220.8	1,983.9
Pomona, City Of	20.454%	0.0	0.000%	1,738.6	0.0	1,738.6
San Antonio Water Company	2.748%	0.0	0.000%	233.6	0.0	233.6
San Bernardino, County of (Shooting Park)	0.000%	0.0	0.000%	0.0	0.0	0.0
Santa Ana River Water Company	2.373%	0.0	0.000%	201.7	0.0	201.7
Upland, City Of	5.202%	0.0	0.000%	442.2	0.0	442.2
West End Consolidated Water Co	1.728%	0.0	0.000%	146.9	0.0	146.9
West Valley Water District	1.175%	0.0	0.000%	99.9	0.0	99.9
	100.000%	31,716.6	100.000%	8,500.0	1,500.0	10,000.0
	19A	19B	19C	19D	19E	19F

Notes:

Section 6.2(b)(ii) of the Peace II Agreement as the amendment is shown in the March 15, 2019 Court Order states: "The members of the Appropriative Pool will contribute a total of 10,000 afy toward Desalter replenishment, allocated among the Appropriative Pool members as follows: 1) 85% of the total (8,500 afy) will be allocated according to the Operating Safe Yield percentage of each Appropriative Pool members; and 2) 15% of the total (1,500 afy) will be allocated according to each land use conversion agency's percentage of the total land use conversion claims. The formula is to be adjusted annually based on the actual land use conversion allocations of the year."



Remaining Desalter Replenishment Obligation (RDRO)

			CALC	ULATING THE ADJUSTE	ED PHYSICAL PRODUCT	ION			ALLOCATING THE RDRO					
	Assigned Share of Operating Safe Yield	Physical Production	50% of Voluntary Agreements with Ag	Assignments with Non-Ag	Storage and Recovery Programs	Other Adjustments	Total Adjusted Physical Production	Total Production and OSY Basis (20A+20G)	Percentage (20H) / Sum(20H)	Total Remaining Desalter Replenishment Obligation				
BlueTriton Brands, Inc.	0.0	271.3	0.0	0.0	0.0	0.0	271.3	271.3	0.231%	39.0				
CalMat Co. (Appropriative)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.0				
Chino Hills, City Of	1,572.5	2,528.6	(34.5)	0.0	0.0	0.0	2,494.1	4,066.6	3.461%	584.2				
Chino, City Of	3,004.2	6,133.0	(1,649.0)	(72.6)	0.0	0.0	4,411.4	7,415.5	6.312%	1,065.4				
Cucamonga Valley Water District	2,695.5	26,225.7	0.0	0.0	(20,500.0)	0.0	5,725.7	8,421.2	7.168%	1,209.8				
Fontana Union Water Company	4,760.0	0.0	0.0	0.0	0.0	0.0	0.0	4,760.0	4.051%	683.9				
Fontana Water Company	0.8	13,565.3	0.0	0.0	(2,500.0)	0.0	11,065.3	11,066.1	9.419%	1,589.8				
Fontana, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.0				
Golden State Water Company	306.3	1,074.4	0.0	0.0	0.0	0.0	1,074.4	1,380.6	1.175%	198.4				
Jurupa Community Services District	1,535.0	11,160.9	0.0	(417.1)	0.0	(133.9)	10,609.9	12,144.9	10.337%	1,744.8				
Marygold Mutual Water Company	488.0	840.9	0.0	0.0	0.0	0.0	840.9	1,328.9	1.131%	190.9				
Monte Vista Irrigation Company	503.9	0.0	0.0	0.0	0.0	0.0	0.0	503.9	0.429%	72.4				
Monte Vista Water District	3,592.2	7,674.4	(62.2)	(22.1)	0.0	(4.7)	7,585.5	11,177.6	9.514%	1,605.9				
NCL Co, LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.0				
Niagara Bottling, LLC	0.0	1,751.7	0.0	0.0	0.0	0.0	1,751.7	1,751.7	1.491%	251.7				
Nicholson Family Trust	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.002%	0.4				
Norco, City Of	150.3	0.0	0.0	0.0	0.0	0.0	0.0	150.3	0.128%	21.6				
Ontario, City Of	8,469.8	21,750.8	(1,485.7)	(1,608.4)	0.0	0.0	18,656.8	27,126.6	23.089%	3,897.2				
Pomona, City Of	8,352.2	9,192.2	0.0	0.0	0.0	0.0	9,192.2	17,544.3	14.933%	2,520.6				
San Antonio Water Company	1,122.1	676.5	0.0	0.0	0.0	0.0	676.5	1,798.6	1.531%	258.4				
San Bernardino, County of (Shooting Park)	0.0	17.2	0.0	0.0	0.0	0.0	17.2	17.2	0.015%	2.5				
Santa Ana River Water Company	969.0	0.0	0.0	0.0	0.0	175.5	175.5	1,144.5	0.974%	164.4				
Upland, City Of	2,124.2	2,177.1	0.0	0.0	0.0	(70.1)	2,107.0	4,231.2	3.601%	607.9				
West End Consolidated Water Co	705.6	0.0	0.0	0.0	0.0	0.0	0.0	705.6	0.601%	101.4				
West Valley Water District	479.8	0.0	0.0	0.0	0.0	0.0	0.0	479.8	0.408%	68.9				
	40,834.0	105,040.0	(3,231.3)	(2,120.2)	(23,000.0)	(33.2)	76,655.2	117,489.3	100.000%	16,879.4				
	20A	20B	20C	20D	20E	20F	20G	20H	201	20J				

Notes:

Section 6.2(b)(iii) of the Peace II Agreement as the amendment is shown in the March 15, 2019 Court Order states: "A Replenishment Assessment against the Appropriative Pool for any remaining Desalter replenishment obligation after applying both 6(b)(i) and 6(b)(ii), allocated pro-rata to each Appropriative Pool member according to the combined total of the member's share of Operating Safe Yield and the member's Adjusted Physical Production."



Desalter Replenishment Summary

	Desalter R	eplenishment Obliga	tion in AF			Total	DRO Fulfillment A	ctivity			Asses	sments
	Desalter Replenishment Obligation Contribution	Remaining Desalter Replenishment Obligation	Total Desalter Replenishment Obligation	Transfer from Dedicated Replenishment Account	Excess Carry Recharged		Transfer from Quantified Storage Account	Transfer from Post 7/1/2000 Storage Account	Replenishment Water Purchase	Total Transfers and Water Purchases	Residual DRO (AF)	Assessments Due On Residual DRO (\$)
BlueTriton Brands, Inc.	0.0	(39.0)	(39.0)	32.1	6.9	0.0	0.0	0.0	0.0	39.0	0.0	0.00
CalMat Co. (Appropriative)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Chino Hills, City Of	(387.8)	(584.2)	(972.0)	602.9	369.1	0.0	0.0	0.0	0.0	972.0	0.0	0.00
Chino, City Of	(1,051.8)	(1,065.4)	(2,117.2)	0.0	2,117.2	0.0	0.0	0.0	0.0	2,117.2	0.0	0.00
Cucamonga Valley Water District	(589.4)	(1,209.8)	(1,799.2)	952.5	846.7	0.0	0.0	0.0	0.0	1,799.2	0.0	0.00
Fontana Union Water Company	(990.8)	(683.9)	(1,674.7)	1,674.7	0.0	0.0	0.0	0.0	0.0	1,674.7	0.0	0.00
Fontana Water Company	(39.6)	(1,589.8)	(1,629.5)	469.0	1,160.5	0.0	0.0	0.0	0.0	1,629.5	0.0	0.00
Fontana, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Golden State Water Company	(63.8)	(198.4)	(262.1)	0.0	262.1	0.0	0.0	0.0	0.0	262.1	0.0	0.00
Jurupa Community Services District	(1,039.1)	(1,744.8)	(2,783.9)	0.0	2,783.9	0.0	0.0	0.0	0.0	2,783.9	0.0	0.00
Marygold Mutual Water Company	(101.6)	(190.9)	(292.5)	0.0	0.0	0.0	292.5	0.0	0.0	292.5	0.0	0.00
Monte Vista Irrigation Company	(104.9)	(72.4)	(177.3)	0.0	177.3	0.0	0.0	0.0	0.0	177.3	0.0	0.00
Monte Vista Water District	(752.7)	(1,605.9)	(2,358.6)	0.0	1,490.1	713.2	0.0	155.4	0.0	2,358.6	0.0	0.00
NCL Co, LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Niagara Bottling, LLC	0.0	(251.7)	(251.7)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(251.7)	198,558.16
Nicholson Family Trust	(0.6)	(0.4)	(1.0)	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.00
Norco, City Of	(31.3)	(21.6)	(52.9)	0.0	52.9	0.0	0.0	0.0	0.0	52.9	0.0	0.00
Ontario, City Of	(1,983.9)	(3,897.2)	(5,881.1)	3,461.1	0.0	2,420.0	0.0	0.0	0.0	5,881.1	0.0	0.00
Pomona, City Of	(1,738.6)	(2,520.6)	(4,259.1)	0.0	4,259.1	0.0	0.0	0.0	0.0	4,259.1	0.0	0.00
San Antonio Water Company	(233.6)	(258.4)	(492.0)	281.8	0.0	0.0	0.0	210.2	0.0	492.0	0.0	0.00
San Bernardino, County of (Shooting Park)	0.0	(2.5)	(2.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(2.5)	1,946.46
Santa Ana River Water Company	(201.7)	(164.4)	(366.1)	0.0	366.1	0.0	0.0	0.0	0.0	366.1	0.0	0.00
Upland, City Of	(442.2)	(607.9)	(1,050.1)	171.2	878.8	0.0	0.0	0.0	0.0	1,050.1	0.0	0.00
West End Consolidated Water Co	(146.9)	(101.4)	(248.3)	86.1	162.1	0.0	0.0	0.0	0.0	248.3	0.0	0.00
West Valley Water District	(99.9)	(68.9)	(168.8)	0.0	168.8	0.0	0.0	0.0	0.0	168.8	0.0	0.00
	(10,000.0)	(16,879.4)	(26,879.4)	7,731.4	15,102.7	3,133.2	292.5	365.5	0.0	26,625.3	(254.1)	200,504.62
	21A	21B	21C	21D	21E	21F	21G	21H	211	21J	21K	21L

¹⁾ California Speedway Corporation dedicated 32.1 AF from their ECO storage account to satisfy a portion of BlueTriton Brands, Inc.'s 2021/22 DRO pursuant to an Exhibit "G" Section 10 Form A.

²⁾ City of Ontario (Non-Ag) dedicated 3,461.1 AF from their ECO storage account to satisfy a portion of City of Ontario's 2021/22 DRO pursuant to an Exhibit "G" Section 10 Form A.

Assessment Calculation - Projected (Includes "10% Judgment Administration and 15% OBMP & Program Elements 1-9 Operating Reserves")

PRODUCTION BASIS

2019/2020 Production and Exchanges in Acre-Feet (Actuals)

2020/2021 Production and Exchanges in Acre-Feet (Actuals)¹

BUDGET

Judgment Administration 2,3

OBMP & Program Elements 1-9²

Judgment Administration, OBMP & PE 1-9 Assessments

TOTAL BUDGET

Less: Budgeted Interest Income

Less: Contributions from Outside Agencies

Subtotal: CASH DEMAND

Add: OPERATING RESERVE

Judgment Administration (10%)

OBMP & PE 1-9 (15%)

Subtotal: OPERATING RESERVE

Less: Cash Balance on Hand Available for Assessments

FUNDS REQUIRED TO BE ASSESSED

Proposed Assessments

Judgment Administration, OBMP & PE 1-9 Assessments (Minimum \$5.00 Per Producer)

Grand Total

Prior Year Assessments, (Actuals) Information Only

Grand Total

Variance Between Proposed Assessments and Prior Year Assessments

Grand Total

Estimated Assessment as of "Amended" Budget July 22, 2021, Information Only

Grand Total

FY 2020/21 Budget ⁵	FY 2021/22 Budget	ASSESSMENT	APPROPRIAT	IVE POOL	AGRICULTUI	RAL POOL	NON-AG	POOL
		95,348.464	69,918.990	73.330%	21,841.407	22.907%	3,588.067	3.763%
		98,806.120	73,423.920	74.311%	21,484.815	21.744%	3,897.385	3.944%
			Judgment Administration	OBMP & PE 1-9	Judgment Administration	OBMP & PE 1-9	Judgment Administration	OBMP & PE 1-9
\$2,021,670	\$2,200,720	\$2,200,720	\$1,635,379		\$478,533		\$86,807	
\$6,103,889	\$5,050,683	\$5,050,683		\$3,753,218		\$1,098,242		\$199,223
\$8,125,559	\$7,251,403	\$7,251,403	\$1,635,379	\$3,753,218	\$478,533	\$1,098,242	\$86,807	\$199,223
		\$7,251,403	\$1,635,379	\$3,753,218	\$478,533	\$1,098,242	\$86,807	\$199,223
(\$130,813)	(\$106,125)	(\$106,125)		(\$78,863)		(\$23,076)		(\$4,186)
(\$176,203)	(\$177,430)	(\$177,430)		(\$131,850)		(\$38,581)		(\$6,999)
\$7,818,543	\$6,967,848	\$6,967,848	\$1,635,379	\$3,542,505	\$478,533	\$1,036,584	\$86,807	\$188,038
\$202,167	\$220,072	\$220,072	\$163,538		\$47,853		\$8,681	
\$915,583	\$757,602	\$757,602		\$562,982		\$164,736		\$29,883
\$1,117,750	\$977,674	\$977,674	\$163,538	\$562,982	\$47,853	\$164,736	\$8,681	\$29,883
(\$1,117,750)	(\$977,674)	(\$977,674)	(\$163,538)	(\$562,982)	(\$47,853)	(\$164,736)	(\$8,681)	(\$29,883)
\$7,818,543	\$6,967,848	\$6,967,848	\$1,635,379	\$3,542,505	\$478,533	\$1,036,584	\$86,807	\$188,038
]	[A]	Per Acre-Foot	\$22.27	\$48.25	\$22.27	\$48.25	\$22.27	\$48.25
			=	\$70.52	=	\$70.52	=	\$70.52
[B]	Per Acre-Foot	\$21.20	\$60.80	\$21.20	\$60.80	\$21.20	\$60.80
			=	\$82.00	=	\$82.00	=	\$82.00
ı	A] - [B]		\$1.07	(\$12.55)	\$1.07	(\$12.55)	\$1.07	(\$12.55
			=	(\$11.48)	=	(\$11.48)	=	(\$11.48
			\$18.56	\$39.54	\$18.56	\$39.54	\$18.56	\$39.54
				\$58.10		\$58.10		\$58.10

¹ Due to the timing of when the Budget and the Assessment Package are prepared, actual production numbers on this page may differ from the Budget depending on any last minute corrections during the Assessment Package preparation process.

² Total costs are allocated to Pools by actual production percentages. Does not include Recharge Debt Payment, Recharge Improvement Projects, Replenishment Water Purchases, or RTS charges.

³ Judgment Administration excludes OAP, AP, and ONAP specific legal services, meeting compensation, or Special Funds. These items invoiced separately on the Assessment invoices.

⁴ June 30th fund balance (estimated) less funds required for Operating Reserves, Agricultural Pool Reserves, and Carryover replenishment obligations.

⁵ The previous fiscal year's budget numbers are from the previously approved Assessment Package and does not reflect numbers from any amended budget that may have followed.



Water Transaction Detail

Standard Transactions

		Date of		\$ / Acre		If 8	5/15 Rule Ap	olies:
To:	From:	Submittal	Quantity	Feet	Total \$	85%	15%	WM Pays
Cucamonga Valley Water District	West Valley Water District Storage Account	11/9/2020	1,000.0	528.50	528,500.00			
Fontana Water Company	Cucamonga Valley Water District Annual Account	2/16/2021	7,500.0	559.44	4,195,800.00	3,566,430.00	629,370.00	Fontana Water Company
	Nicholson Family Trust Annual Account	5/25/2021	6.5	559.44	3,636.36	3,090.91	545.45	Fontana Water Company
Monte Vista Water District	Chino, City Of Storage Account	9/17/2020	500.0	0.00	0.00			
	One time correction for Land Use 0	Conversion e	error.					
			9,006.5		4,727,936.36	3,569,520.91	629,915.45	

Total 15% Credits from all Transactions: \$629,915.45



Water Transaction Detail

Applied Recurring Transactions:

From:	То:	Quantity	\$ / Acre Feet	
Fontana Union Water Company Annual Account - Assigned Share of Operating Safe Yield	Cucamonga Valley Water District Annual Account - Transfer (To) / From	All	0.00	Transfer FUWC Share of Safe Yield to CVWD.
Fontana Union Water Company Annual Account - Stormwater New Yield	Cucamonga Valley Water District Annual Account - Transfer (To) / From	All	0.00	Transfer FUWC New Yield to CVWD.
Fontana Union Water Company Annual Account - Diff - Potential vs. Net	Cucamonga Valley Water District Annual Account - Transfer (To) / From	All	0.00	Transfer FUWC Ag Pool Reallocation Difference (Potential vs. Net) to CVWD.
Fontana Union Water Company Annual Account - Transfer (To) / From	Cucamonga Valley Water District Annual Account - Transfer (To) / From	All	0.00	Transfer FUWC water transfer rights to CVWD.
Fontana Union Water Company Annual Account - Assigned Rights	Cucamonga Valley Water District Annual Account - Assigned Rights	All	0.00	Transfer FUWC water transfer rights to CVWD.
Fontana Union Water Company Annual Account - Total AG SY Reallocation	Cucamonga Valley Water District Annual Account - Transfer (To) / From	All	0.00	Transfer FUWC Total Ag SY to CVWD.
Fontana Union Water Company Annual Account - Desalter Replenishment Obligation	Cucamonga Valley Water District Annual Account - Transfer (To) / From	All	0.00	Transfer of FUWC DRO





Analysis of the 85/15 Rule Application to Water Transfers

То	(Over)/Under Production Excluding Water Transfer(s)	From	Date of Submittal	Transfer Quantity	Is Buyer an 85/15 Party?	Is Transfer Being Placed into Annual Account?	Is Purpose of Transfer to Utilize SAWCO or West End Shares?	Amount of Transfer Eligible for 85/15 Rule
Cucamonga Valley Water District	7,654.0	West Valley Water District Storage Account	11/9/2020	1,000.0	Yes	Yes	No	0.0
Fontana Water Company	(10,229.0)	Cucamonga Valley Water District Annual Account	2/16/2021	7,500.0	Yes	Yes	No	7,500.0
		Nicholson Family Trust Annual Account	5/25/2021	6.5	Yes	Yes	No	6.5
Monte Vista Water District	2,722.3	Chino, City Of Storage Account	9/17/2020	500.0	Yes	Yes	No	0.0
		One time correction	for Land Use Co	onversion e	rror.			



Watermaster Replenishment Calculation

Cost of Replenishment Water per acre foot:

Pre-purchased Credit	\$0.00
Projected Spreading - Delivery Surcharge	\$10.00
Projected Spreading - OCWD Connection Fee	\$2.00
Watermaster Replenishment Cost	\$777.00

Replenishment Obligation:	AF @ \$789.00	15%	85%	Total
Appropriative - 100	1,751.7			\$1,382,063.69
Appropriative - 15/85	17.2	\$2,032.42	\$11,517.07	\$13,549.50
Non-Agricultural - 100	54.8			\$43,269.55
	1,823.7			\$1,438,882.73

Company	AF Production and Exchanges	85/15 Producers	Percent of Total 85/15 Producers	15% Replenishment Assessment	15% Water Transaction Debits
BlueTriton Brands, Inc.	271.3			-	-
CalMat Co. (Appropriative)	0.0			-	-
Chino Hills, City Of	2,459.6	2,459.6	4.008%	\$81.46	\$25,247.02
Chino, City Of	2,762.4	2,762.4	4.501%	\$91.49	\$28,354.64
Cucamonga Valley Water District	5,725.7	5,725.7	9.330%	\$189.63	\$58,771.84
Desalter Authority	40,114.5			-	-
Fontana Union Water Company	0.0	0.0	0.000%	-	\$0.00
Fontana Water Company	11,065.3	11,065.3	18.031%	\$366.47	\$113,580.68
Fontana, City Of	0.0			-	-
Golden State Water Company	1,074.4	1,074.4	1.751%	\$35.58	\$11,028.12
Jurupa Community Services District	10,609.9	10,609.9	17.289%	\$351.39	\$108,906.10
Marygold Mutual Water Company	840.9			-	-
Monte Vista Irrigation Company	0.0	0.0	0.000%	-	\$0.00
Monte Vista Water District	7,523.3	7,523.3	12.259%	\$249.16	\$77,223.33
NCL Co, LLC	0.0			-	-
Niagara Bottling, LLC	1,751.7			-	-
Nicholson Family Trust	0.0	0.0	0.000%	-	\$0.00
Norco, City Of	0.0	0.0	0.000%	-	\$0.00
Ontario, City Of	17,171.1	17,171.1	27.981%	\$568.68	\$176,254.23
Pomona, City Of	9,192.2			-	-
San Antonio Water Company	676.5	676.5	1.102%	\$22.41	\$6,944.27
San Bernardino, County of (Shooting Park)	17.2	17.2	0.028%	\$0.57	\$176.27
Santa Ana River Water Company	175.5	175.5	0.286%	\$5.81	\$1,801.41
Upland, City Of	2,107.0	2,107.0	3.433%	\$69.78	\$21,627.56
West End Consolidated Water Co	0.0	0.0	0.000%	-	\$0.00
West Valley Water District	0.0	0.0	0.000%	-	\$0.00
** Fee assessment total is 15% of	113,538.4	61,367.9	**	\$2,032.43	\$629,915.47
Appropriative 15/85 replenishment obligation				Transfers to	Transfers to
				8G	8K

Notes: The 2021 rate includes a \$10 surcharge from Three Valleys Municipal Water District.

Readiness to Serve (RTS) Charges

Total Water Purchased: 6,912.9 AF Total RTS Charge: \$35,030.19 (\$5.07/AF)

RO = Replenishment Obligation DRO = Desalter Replenishment Obligation						2016/2017 Wa	ter Purchas	es							FY 2017/2	2018 Water P	urcnase			TOTAL
yyyymmdd = Order #				chased Wate				2015/16 Pr			4 RTS Cha	•	Purchased V		2016/17 Pr		Year	3 RTS Cha	rges	RTS
	20160		20161216	20170418		5/15 Breakdov			Producers	15%	85%	100%	20171		From 85/15		15%	85%	100%	CHARGE
Appropriative or Non-Agricultural Pool Party	RO	DRO	DRO	RO	AF @ 100%	AF @ 85/15	AF Total	Acre-Feet	Percent	\$0.76	\$4.31	\$5.07	RO	DRO	Acre-Feet	Percent	\$0.76	\$4.31	\$5.07	#
BlueTriton Brands, Inc.	1,135.3	8.9	4.0	335.7	1,483.8	0.0	1,483.8	0.0	0.000%	0.00	0.00	7,518.68	0.1	0.0	0.0	0.000%	0.00		0.46	7,519.1
CalMat Co. (Appropriative)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0
Chino Hills, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,548.3	2.009%	0.74	0.00	0.00	0.0	0.0	2,152.0	3.002%	0.30	0.00	0.00	1.0
Chino, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	388.9	0.543%	0.05	0.00	0.00	0.0
Cucamonga Valley Water District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,534.7	26.648%	9.77	0.00	0.00	0.0	0.0	16,562.0	23.104%	2.32	0.00	0.00	12.0
Fontana Union Water Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.00
Fontana Water Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,317.2	19.877%	7.29	0.00	0.00	0.0	0.0	13,250.5	18.484%	1.86	0.00	0.00	9.1
Fontana, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0
Golden State Water Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	807.4	1.048%	0.38	0.00	0.00	0.0	0.0	850.3	1.186%	0.12	0.00	0.00	0.5
Jurupa Community Services District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,952.8	11.618%	4.26	0.00	0.00	0.0	0.0	11,023.2	15.377%	1.55	0.00	0.00	5.8
Marygold Mutual Water Company	78.7	51.9	20.3	0.0	150.9	0.0	150.9	0.0	0.000%	0.00	0.00	764.52	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	764.5
Monte Vista Irrigation Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0
Monte Vista Water District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,203.7	10.646%	3.90	0.00	0.00	0.0	0.0	6,865.0	9.577%	0.96	0.00	0.00	4.8
NCL Co, LLC	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.000%			0.00	0.0	0.0	0.0	0.000%			0.00	0.0
Niagara Bottling, LLC	2,567.5	35.5	0.0	1,174.3	3,777.3	0.0	3,777.3	0.0	0.000%	0.00		19,141.00	946.1	0.0	0.0	0.000%			4,794.00	23,935.0
Nicholson Family Trust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0
Norco, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0
Ontario, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,053.8	23.429%	8.59	0.00	0.00	0.0	0.0	18,970.2	26.463%	2.66	0.00	0.00	11.2
Pomona, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00		0.00	0.0	0.0	0.0	0.000%			0.00	0.0
San Antonio Water Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,030.8	1.338%	0.49	0.00	0.00	0.0	0.0	537.7	0.750%	0.08	0.00	0.00	0.5
San Bernardino, County of (Shooting Park)	38.8	0.3	0.1	9.4	0.4	48.2	48.6	9.4	0.012%	0.00	207.75	2.02	13.2	0.8	13.0	0.018%	0.00	57.02	4.01	270.8
Santa Ana River Water Company	0.0	48.0	23.7	0.0	71.7	0.0	71.7	0.0	0.000%	0.00	0.00	363.24	0.0	118.7	0.0	0.000%	0.00	0.00	601.32	964.5
Upland, City Of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,600.7	3.375%	1.24	0.00	0.00	0.0	0.0	1,071.9	1.495%	0.15	0.00	0.00	1.3
West End Consolidated Water Co	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0
West Valley Water District	0.0	23.5	11.8	0.0	35.3	0.0	35.3	0.0	0.000%	0.00	0.00	178.63	0.0	58.8	0.0	0.000%	0.00	0.00	297.72	476.3
9W Halo Western OpCo L.P.	62.2			10.6	72.9	0.0	72.9	0.0	0.000%			369.27	3.0		0.0	0.000%			15.34	384.6
ANG II (Multi) LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00		0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
Aqua Capital Management LP	57.5	0.0	0.0	0.0	57.5	0.0	57.5	0.0	0.000%	0.00		291.23	0.0	0.0	0.0	0.000%	0.00		0.00	291.2
California Speedway Corporation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00		0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
California Steel Industries, Inc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
CalMat Co.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00		0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
CCG Ontario, LLC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
City of Ontario (Non-Ag)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
County of San Bernardino (Non-Ag)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00		0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
General Electric Company	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.000%	0.00	0.00	0.31	0.0	0.0	0.0	0.000%	0.00		0.00	0.3
Hamner Park Associates, a California Limited Partnershi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
Linde Inc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00		0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
Monte Vista Water District (Non-Ag)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00		0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
Riboli Family and San Antonio Winery, Inc.	28.8	0.0	0.0	4.0	32.8	0.0	32.8	0.0	0.000%	0.00	0.00	166.02	5.3	0.0	0.0	0.000%	0.00		26.67	192.6
Space Center Mira Loma, Inc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
TAMCO	19.8	0.0	0.0	16.5	36.4	0.0	36.4	0.0	0.000%	0.00		184.24	0.0	0.0	0.0	0.000%	0.00		0.02	184.2
West Venture Development Company	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000%	0.00	0.00	0.00	0.0	0.0	0.0	0.000%	0.00		0.00	0.0
Sandio Bottolopinoni Gompuny	3,988.7	168.0	59.9	1,550.5	5,718.8	48.2	5,767.0	77,058.9	100.0%	36.66			967.7	178.2	71,684.9	100.0%	10.06	57.02	5,739.54	35,030.2
	0,000.7	. 50.0	26C	.,000.0	26E	26F	26G	26H	261	26J	201.13	_0,070.10	301.1	. 7 0.2	,507.5	26P	. 5.00	01.02	0,.00.04	00,000.2

¹⁾ This year's RTS includes the fourth of ten annual RTS charges for water purchased in FY 2016/17, and third of ten annual RTS charges for water purchased in FY 2017/18.

2) In April 2021, Nestle Waters North America Inc., who owns Arrowhead Mountain Spring Water brand, changed its name to BlueTriton Brands, Inc. and requested Watermaster to use the new company name.



Assessment Package Notes

Page	Note
All (a)	A change in a Party's name will be reflected in the Assessment Package for the production year in which the name change occurred. For example, if a Party changed its name on June 30, 2021, it will be reflected in the FY 2021/2022 Assessment Package (for Production Year 2020/2021). Additionally, if a Party changed its name on July 1, 2021, it will be reflected in the FY 2022/2023 Assessment Package (for Production Year 2021/2022).
All (b)	To avoid the possibility of being mistakenly identified as one of other similarly named organizations, the Chino Basin Desalter Authority is referred to as Desalter Authority.
pg01	"Agricultural Total Pool Production" includes Voluntary Agreements between Appropriators and Agricultural Pool Parties.
pg04 (a)	Transfers in Column [4E] include the annual transfer of 10% of the Non-Ag Safe Yield to be utilized to offset the overall Desalter Replenishment Obligation in accordance with the Peace II Agreement Section 6.2, and also the Exhibit "G" physical solution.
pg04 (b)	Column [4H], "Actual Fiscal Year Production," includes physical production and Assignments between Appropriators and Non-Ag Pool Parties.
pg04 (c)	"Net Over Production" does not include evaporative loss. Additional water will be purchased in order to adequately cover evaporative losses. The rates are 1.5% from November through March, 4.2% from April through October.
pg05 (a)	Hydraulic Control was achieved on February 1, 2016. Pursuant to Paragraph 7.4(b) of the Peace II Agreement, Storage Loss is now calculated at 0.07%.
pg05 (b)	When applicable, Column [5C] includes the Exhibit "G" physical solution transfers to the Appropriative Pool.
pg06	Transfers in Column [6C] is the annual transfer of 10 percent of the Non-Ag Safe Yield to be utilized to offset the overall Desalter Replenishment Obligation in accordance with the Peace II Agreement Section 6.2.
pg07 (a)	The financial Outstanding Obligations are reconciled on pages 7.1 and 17.1.
pg07 (b)	Fund Balance is maintained on a spreadsheet by Watermaster.
pg07 (c)	Outstanding Obligation (\$) is calculated by multiplying Outstanding Obligation (AF) by the current rate, reduced by the Fund Balance (\$).
pg07 (d)	Fund Balance is the money collected by Watermaster, Outstanding Obligation (\$) is the money owed by the Parties or credited to the Parties.
pg08 (a)	Recharge Debt Payment expenses [80] and Recharge Improvement Project expenses [8P] are each allocated on % OSY, based on the approved budget.
pg08 (b)	Pursuant to Paragraph 5.4(b) of the Peace Agreement, the City of Pomona shall be allowed a credit of up to \$2 million against OBMP Assessments through 2030. This equates to \$66,667 per year. TVMWD elected to discontinue payment of the "Pomona Credit," effective FY 2012/2013. It is now paid by the Appropriative Pool Parties, allocated on % OSY (Column [8N]).
pg09 (a)	Other Adjustments [9D] include water provided to another Appropriator, pump-to-waste that has been captured in a recharge basin (as verified by IEUA), and other miscellaneous recharge / injection of native water.
pg09 (b)	Evaporative Losses will be applied to recharged water from Pump-to-Waste activities beginning in October 2017. (Evaporative Loss Rates: 1.5% Nov - Mar; 4.2% Apr - Oct)
pg10 (a)	The Restated Judgment allowed an accumulated overdraft of 200,000 AF over 40 years. The total Operating Safe Yield is now 40,834 AF, allocated by percentage of Operating Safe Yield.
pg10 (b)	Column [10I], "Actual Fiscal Year Production," includes physical production, Voluntary Agreements, Assignments, and, if applicable, other adjustments. A detailed breakdown can be found on Page 9.1.
pg10 (c)	"Net Over Production" does not include evaporative loss. Additional water will be purchased in order to adequately cover evaporative losses. The rates are 1.5% from November through March, 4.2% from April through October.



Assessment Package Notes

Page	Note
pg11 (a)	The Assessment Package database is set up so that all water must go through the Party Annual Accounts on the way to or from ECO Storage Accounts, and through the ECO Storage Accounts on the way to or from Supplemental Storage Accounts (does not apply to water dedicated to offset the Desalter Replenishment Obligation).
pg11 (b)	Column [11C] includes transfers to the Desalter Replenishment Obligation.
pg12 (a)	The Assessment Package database is set up so that all water must go through the Party Annual Accounts on the way to or from ECO Storage Accounts, and through the ECO Storage Accounts on the way to or from Supplemental Storage Accounts (does not apply to water dedicated to offset the Desalter Replenishment Obligation).
pg12 (b)	Columns [12C], [12H], and [12M] include transfers to the Desalter Replenishment Obligation.
pg12 (c)	The first 3,000 AF of City of Fontana's recharged recycled water transfers to the City of Ontario, and all of the City of Montclair's recharged recycled water transfers to MVWD.
pg13 (a)	"Re-Operation Offset: Pre-Peace II Desalters" had an original beginning balance of 225,000.000 AF. The 29,070 AF correction required by Condition Subsequent 7 is included. (See Page 18.1)
pg13 (b)	"Re-Operation Offset: Peace II Expansion" had an original beginning balance of 175,000.000 AF. It will now be allocated to Desalter replenishment over a 17-year period, beginning in 2013/14 and ending in 2029/30, according to a schedule. (See Page 18.1)
pg13 (c)	There is no loss assessed on the native Basin water allocated to offset Desalter production as a result of Basin Reoperation as approved in the Peace II Agreement.
pg13 (d)	"Non-Ag Dedication" was used in a prior Assessment Package to indicate the Paragraph 31 Settlement Agreements Dedication.
pg13 (e)	The "Non-Ag" OBMP Special Assessment", also referred to as the "10% Haircut", will indicate the movement of water when it is being utilized to further offset the Desalter Replenishment Obligation. See [18L] on Page 18.1.
pg13 (f)	Columns [13C] and [13D] under "Dedicated Replenishment" include transfers of water from an Annual Account to DRO resulting from Party to Party transfers such as those executed with the Exhibit "G" Form A.
pg14	Transfers in Column [14A] include annual water transfers/leases between Appropriators and/or from Appropriators to Watermaster for replenishment purposes, and also the Exhibit "G" physical solution transfers from the Non-Ag Pool.
pg15 (a)	Most of the remaining eligible parcels for Land Use Conversion are within the Conversion Area 1 boundary.
pg15 (b)	"Unlikely to Convert Parcels" regardless of eligibility are not likely to convert due to pre-existing land use. Eligibility will be determined on a case by case basis.
pg16	Beginning with the 2015/16 Assessment Package, the Agricultural Pool Safe Yield Reallocation is now being calculated with a new formula in accordance with the March 15, 2019 Court Order.
pg17 (a)	The financial Outstanding Obligations are reconciled on pages 7.1 and 17.1.
pg17 (b)	Fund Balance is maintained on a spreadsheet by Watermaster.
pg17 (c)	Outstanding Obligation is calculated by multiplying Outstanding Obligation (AF) by the current rate, reduced by the Fund Balance.
pg17 (d)	Fund Balance is the money collected by Watermaster, Outstanding Obligation (\$) is the money owed by the Parties or credited to the Parties.
pg21 (a)	Any balance in a Dedicated Replenishment Account is utilized first to satisfy new or carried over Desalter Replenishment Obligation beginning with the fiscal year such water was made available. The balance, if any, can be found on page 13.1.
pg21 (b)	Due to an agreement between CVWD and FUWC, all of FUWC's rights are automatically transferred to CVWD. A recurring transaction was created so that a portion of that water gets returned to FUWC to satisfy their DRO.



Assessment Package Notes

Page	Note
pg22	The table on this page is a replica of the table found in the Watermaster Budget.
pg24	The column titled "(Over)/Under Production Excluding Water Transfer(s)" excludes Exhibit "G" water sales and water transfers between Appropriators and to Watermaster (if any). ([10B] + [10C] + [10D] + [10E] + [14B] - [10K])
pg25 (a)	The "15% Water Transaction Debits" total is the "Total 15% Credits from all Transaction" from Page 23.1.
pg25 (b)	"Replenishment Obligation" does not include evaporative loss. Additional water will be purchased in order to adequately cover evaporative losses. The rates are 1.5% from November through March, 4.2% from April through October.
pg26 (a)	Beginning with fiscal year 2016/17, water purchased through the IEUA will be charged with an annual RTS fee over a ten year period commencing two years after the initial purchase. This fee will vary year to year based on a ten-year rolling average.
pg26 (b)	RTS will be allocated based on the total RTS charge for the year and not on the calculated cost per acre-foot.



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Column	Title Description
2A	AF Production Actual fiscal year production by each Party. Copied from [4H].
2B	Non-Agricultural Pool - AF/Admin Production [2A] <times> per acre-foot Admin fee.</times>
2C	Non-Agricultural Pool - AF/OBMP Production [2A] <times> per acre-foot OBMP fee.</times>
2D	Replenishment Assessments - AF Exceeding Annual Right Over-production for each Party beyond their annual production right. Copied from [41].
2E	Replenishment Assessments - \$767 Per AF Amount overproduced [2D] <times> the current replenishment rate.</times>
2F	CURO Adjustment Monetary amount needed (or to be credited) for each Party's Cumulative Unmet Replenishment Obligation (CURO). Calculated on Page 7.1.
2G	RTS Charges Annual Readiness to Serve charges for water purchased in prior years.
2H	Other Adjustments Used as necessary for any other monetary adjustments needed to the Assessment Package.
21	Total Assessments Due Total fees assessed based on Party production. [2B] + [2C] + [2F] + [2F] + [2G] + [2H].
3A	Physical Production Fiscal year physical production by each Party.
3B	Assignments Total of water received from an Appropriator by each Party.
3C	Other Adjustments Any other adjustments that result in off-set of the fiscal year's production.
3D	Actual FY Production (Assmnt Pkg Column 4H) Total adjusted production for the fiscal year. Also known as Assessable Production. [3A] + [3B] + [3C].
4A	Percent of Safe Yield The Party's yearly percentage of Safe Yield.
4B	Carryover Beginning Balance The beginning balance in each Annual Account. This number carries forward from the ending balance in the previous period Assessment Package.
4C	Prior Year Adjustments This number reflects the adjusted production rights from a previous Assessment Package, in the event that corrections are needed.
4D	Assigned Share of Safe Yield (AF) The Party's yearly volume of Safe Yield.
4E	Water Transaction Activity Total of one-time water transfers between Parties for this period, including the annual transfer of 10 percent of the Non-Ag Safe Yield to be utilized to offset the overall Desalter Replenishment Obligation, as stated in the Peace II Agreement, and Exhibit G.
4F	Other Adjustments This number reflects adjusted production rights, in the event that corrections are needed.
4G	Annual Production Right Current Year Production Right. [4B] + [4C] + [4D] + [4E] + [4F].



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Column	Title Description
	Actual Fiscal Year Production
4H	Fiscal year production, including Assignments, from CBWM's production system (as verified by each Party on their Water Activity Report). Also known as Assessable Production.
41	Net Over Production
41	Over-production, if any, for each Party beyond their annual production right. [4H] <minus> [4G], equaling more than zero.</minus>
	Under Production Balances - Total Under-Produced
4J	Production rights [4G] <minus> production [4H], equaling more than zero.</minus>
	Under Production Balances - Carryover: Next Year Begin Bal
4K	Either total under-produced [4J] or share of Safe Yield [4D], whichever is less.
	Under Production Balances - To Excess Carryover Account
4L	Total under-produced [4J] <minus> Carryover to next year [4K], equaling more than zero.</minus>
5A	Local Excess Carry Over Storage Account (ECO) - Beginning Balance
	The beginning balance in each ECO account. This number will carry forward from the ending balance in the previous period Assessment Package.
	Local Excess Carry Over Storage Account (ECO) - 0.07% Storage Loss
5B	Beginning balance [5A] <times> -0.0007.</times>
5C	Local Excess Carry Over Storage Account (ECO) - Transfers To / (From) Total of water transferred to and from the ECO Account.
5D	Local Excess Carry Over Storage Account (ECO) - From Under-Production
	Total of water transferred from the Annual Account due to under production. Copied from [4L].
5E	Local Excess Carry Over Storage Account (ECO) - Ending Balance
02	The current balance in each ECO account. [5A] + [5B] + [5C] + [5D].
5F	Local Supplemental Storage Account - Beginning Balance
31	The beginning balance in each Supplemental Account. This number will carry forward from the ending balance in the previous period Assessment Package.
5G	Local Supplemental Storage Account - 0.07% Storage Loss
36	Beginning balance [5F] <times> -0.0007.</times>
	Local Supplemental Storage Account - Transfers To / (From)
5H	Total of water transferred to and from the Annual and/or ECO Account.
	Local Supplemental Storage Account - Ending Balance
5I	The current balance in each Supplemental Account. [5F] + [5G] + [5H].
	Combined - Ending Balance
5J	The combined amount in all local storage accounts. [5E] + [5I].
	Percent of Safe Yield
6A	The Party's yearly percentage of Operating Safe Yield.
	Assigned Share of Safe Yield (AF)
6B	The Party's yearly volume of Operating Safe Yield.
6C	Water Transactions - 10% of Operating Safe Yield ("Haircut")
	Operating Safe Yield [6B] <times> -0.1</times>
6D	Water Transactions - Transfers (To) / From ECO Account
	Total of water transferred between the Annual Account and ECO Account.
6E	Water Transactions - General Transfers / Exhibit G Water Sales
0_	Total of water transfers between Parties for this period including Exhibit G Water Sales.
6F	Water Transactions - Total Water Transactions
	Total water transactions. [6C] + [6D] + [6E]. This column is used to populate [4E].



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Column	Title Description
7A	Outstanding Obligation (AF)
	The amount of obligation carried over from prior Assessment Package(s) that were not met due to various reason, including but not limited to MWD not having replenishment water available to purchase.
	Fund Balance (\$)
7B	The amount of money collected or owed for replenishment assessments from prior Assessment Package(s).
7C	Outstanding Obligation (\$) The amount of money that each Party owes or is credited based on current replenishment rate. [7A] <times> [CURRENT RATE] <minus> [7B].</minus></times>
0.4	AF Production and Exchanges
A8	Total production and exchanges. Copied from [10K].
8B	Appropriative Pool - AF/Admin Production and Exchanges [8A] <times> per acre-foot Admin fee.</times>
	Appropriative Pool - AF/OBMP
8C	Production and Exchanges [8A] <times> per acre-foot OBMP fee.</times>
	Ag Pool SY Reallocation - AF Total Reallocation
8D	Reallocation of Ag Pool Safe Yield. Copied from [10E] and [16E].
	Ag Pool SY Reallocation - AF/Admin
8E	Party Ag Pool reallocation [8D] < divided by Total Ag Pool Reallocation [8D Total] < times > total dollar amount needed for Ag Pool
	Administration.
	Ag Pool SY Reallocation - AF/OBMP
8F	Party Ag Pool reallocation [8D] <divided by=""> Total Ag Pool Reallocation [8D Total] <times> total dollar amount needed for Ag Pool OBMP.</times></divided>
_	Replenishment Assessments - AF/15%
8G	For Parties participating in the 85/15 Rule: Percentage of total 85/15 participant production <times> required credit amount. Copied from Page 25.1.</times>
	Replenishment Assessments - AF/85%
8H	For parties participating in the 85/15 Rule: Total volume overproduced [10L] <times> 85% of the replenishment rate.</times>
$\overline{}$	Replenishment Assessments - AF/100%
81	For parties not participating in the 85/15 Rule: Total volume overproduced [10M] <times> 100% of the replenishment rate.</times>
	85/15 Water Transaction Activity - 15% Producer Credits
8J	For parties participating in the 85/15 Rule: Credit amount equals 15% of the cost of the water purchased. Total to be credited copied from Page 23.1.
OIZ	85/15 Water Transaction Activity - 15% Pro-rated Debits
8K	For parties participating in the 85/15 Rule: Percentage of total 85/15 participant production <times> required credit amount. Copied from Page 25.1.</times>
8L	CURO Adjustment
	Monetary amount needed (or to be credited) for each Party's Cumulative Unmet Replenishment Obligation (CURO). Calculated on Page
	17.1.
8M	ASSESSMENTS DUE - Total Production Based
Olvi	Total fees assessed based on Party production. [8B] + [8C] + [8E] + [8F] + [8G] + [8H] + [8I] + [8J] + [8K] + [8L].
IAO	ASSESSMENTS DUE - Pomona Credit
8N	Debit amount to Pomona <times> -1 <times> percent share of Operating Safe Yield [10A].</times></times>
	ASSESSMENTS DUE - Recharge Debt Payment
80	Total recharge debt payment <times> percent share of Operating Safe Yield [10A].</times>
	ASSESSMENTS DUE - Recharge Improvement Project
8P	Total Recharge Improvement Project <times> Percent Share of Operating Safe Yield [10A].</times>
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Assessment Package References and Definitions

Column	Title Description
8Q	ASSESSMENTS DUE - RTS Charges
	Annual Readiness to Serve charges for water purchased in prior years.
8R	ASSESSMENTS DUE - Other Adjustments Used as necessary for any other monetary adjustments needed to the Assessment Package.
88	ASSESSMENTS DUE - DRO
	Total assessments due for Desalter Replenishment. Copied from [21L].
8T	ASSESSMENTS DUE - Total Due Total assessments. [8M] + [8N] + [8O] + [8P] + [8Q] + [8R] + [8S].
9A	Physical Production Fiscal year physical production by each Party.
9B	Voluntary Agreements (w/ Ag) Total of water provided to Agricultural Pool Parties.
9C	Assignments (w / Non-Ag) Total of water provided to Non-Agricultural Pool Parties.
9D	Other Adjustments Total of water received from, or provided to, another Appropriator. Also includes production off-sets.
9E	Actual FY Production (Assmnt Pkg Column 10I) Total adjusted production for the fiscal year. [9A] + [9B] + [9C] + [9D].
10A	Percent of Operating Safe Yield The Party's yearly percentage of Operating Safe Yield.
10B	Carryover Beginning Balance The beginning balance in each Annual Account. This number carries forward from the ending balance in the previous period Assessment Package.
10C	Prior Year Adjustments This number reflects the adjusted production rights from a previous Assessment Package, in the event that corrections are needed.
10D	Assigned Share of Operating Safe Yield The Party's yearly volume of Operating Safe Yield.
10E	Net Ag Pool Reallocation Reallocation of Ag Pool Safe Yield. Copied from [16E]. The calculations that lead to this are made on Page 16.1.
10F	Water Transaction Activity Water transactions. Copied from [14E]. The calculations that lead to this are made on Page 14.1.
10G	Other Adjustments This number reflects adjusted production rights, in the event that corrections are needed.
10H	Annual Production Right Current Year Production Right. [10B] + [10C] + [10D] + [10E] + [10F] + [10G].
101	Actual Fiscal Year Production Fiscal year production, including Assignments and Voluntary Agreements, from CBWM's production system (as verified by each Party on their Water Activity Report). Includes a sub note subtracting Desalter production.
10J	Storage and Recover Program(s) Total exchanges for the period (July 1 - June 30) including MZ1 forbearance and DYY deliveries (as reported to CBWM by IEUA and TVMWD and as verified by each Party on their Water Activity Report). A DYY in-lieu "put" is shown as a positive number and a DYY "take is shown as a negative number.

Total Production and Exchanges



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Column	Title Description
10L	Net Over-Production - 85/15% For 85/15 Rule participants: Production rights [10H] <minus> total production and exchanges [10K], equaling less than zero.</minus>
10M	Net Over-Production - 100% For non-85/15 Rule participants: Production rights [10H] <minus> total production and exchanges [10K], equaling less than zero. Includes a sub note subtracting Desalter production.</minus>
10N	Under Production Balances - Total Under-Produced Production rights [10H] <minus> total production and exchanges [10K], equaling more than zero.</minus>
100	Under Production Balances - Carryover: Next Year Begin Bal Either total under-produced [10N] or share of Operating Safe Yield [10D], whichever is less.
10P	Under Production Balances - To Excess Carryover Account Total under produced [10N] <minus> Carryover to next year [10O], equaling more than zero.</minus>
11A	Excess Carry Over Account (ECO) - Beginning Balance The beginning balance in each ECO account. This carries forward from the ending balance in the previous period Assessment Package.
11B	Excess Carry Over Account (ECO) - 0.07% Storage Loss Beginning balance [11A] <times> -0.0007.</times>
11C	Excess Carry Over Account (ECO) - Transfers To / (From) Total of water transferred to and from ECO and the Annual Account. Also includes Desalter Replenishment Obligation transfers.
11D	Excess Carry Over Account (ECO) - From Supplemental Storage Total of water transferred to and from Local Supplemental Storage accounts, as shown on Page 12.1.
11E	Excess Carry Over Account (ECO) - From Under-Production Total of water transferred from the Annual Account due to under production. Copied from [10P].
11F	Excess Carry Over Account (ECO) - Ending Balance The current balance in each ECO account. [11A] + [11B] + [11C] + [11D] + [11E].
12A	Recharged Recycled Account - Beginning Balance The beginning balance in each Recharged Recycled Account. This number carries forward from the ending balance in the previous period Assessment Package.
12B	Recharged Recycled Account - 0.07% Storage Loss Beginning balance [12A] <times> -0.0007.</times>
12C	Recharged Recycled Account - Transfers To / (From) Total recharged recycled water credited to each Party for the year, as provided by IEUA. Also includes Desalter Replenishment Obligation transfers.
12D	Recharged Recycled Account - Transfer to ECO Account Total of water transferred to the ECO Account, as shown on Page 11.1.
12E	Recharged Recycled Account - Ending Balance The current balance in each Recharged Recycled account. [12A] + [12B] + [12C] + [12D].
12F	Quantified (Pre 7/1/2000) Account - Beginning Balance The beginning balance in each Quantified Supplemental Account. This number carries forward from the ending balance in the previous period Assessment Package.
12G	Quantified (Pre 7/1/2000) Account - 0.07% Storage Loss Beginning balance [12F] <times> -0.0007.</times>
12H	Quantified (Pre 7/1/2000) Account - Transfers To / (From) Total of water transferred to and from the Annual Account. Also includes Desalter Replenishment Obligation transfers.
121	Quantified (Pre 7/1/2000) Account - Transfer to ECO Account Total of water transferred to the ECO Account, as shown on Page 11.1.



14C

Assessment Year 2021-2022 (Production Year 2020-2021)

Assessment Package References and Definitions

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Column	Title Description
12J	Quantified (Pre 7/1/2000) Account - Ending Balance The current balance in each Quantified Supplemental account. [12F] + [12G] + [12H] + [12I].
12K	New (Post 7/1/2000) Account - Beginning Balance The beginning balance in each New Supplemental Account. This number carries forward from the ending balance in the previous period Assessment Package.
12L	New (Post 7/1/2000) Account - 0.07% Storage Loss Beginning balance [12K] <times> -0.0007.</times>
12M	New (Post 7/1/2000) Account - Transfers To / (From) Total of water transferred to and from the Annual Account. Also includes Desalter Replenishment Obligation transfers.
12N	New (Post 7/1/2000) Account - Transfer to ECO Account Total of water transferred to the ECO Account, as shown on Page 11.1.
120	New (Post 7/1/2000) Account - Ending Balance The current balance in each New Supplemental Account. [12K] + [12L] + [12M] + [12N].
12P	Combined - Ending Balance The combined amount in all supplemental storage accounts [12E] + [12J] + [12O].
13A	Dedicated Replenishment - Beginning Balance The beginning balances in each Dedicated Replenishment account. These numbers carry forward from the ending balances in the previous period Assessment Package.
13B	Dedicated Replenishment - Water Purchases Where applicable, the total of water purchased by each Dedicated Replenishment account.
13C	Dedicated Replenishment - Transfers To Where applicable, the total of water transferred to each Dedicated Replenishment account. Includes transfers from Exhibit "G" Section 10 Form A, and transfers from the Annual Account.
13D	Dedicated Replenishment - Transfers From Total of water transferred from each Dedicated Replenishment account. Amounts in this column goes to column [21D] on page 21.1.
13E	Dedicated Replenishment - Ending Balance The current balances in each Dedicated Replenishment account. [13A] + [13B] + [13C] + [13D].
13F	Storage and Recovery - Beginning Balance The beginning balance in the Storage and Recovery (DYY) Account. This number carries forward from the ending balance in the previous period Assessment Package.
13G	Storage and Recovery - Storage Loss Beginning balance [13F] <times> -0.0007.</times>
13H	Storage and Recovery - Transfers To Total of water transferred to the Storage and Recovery Account ("puts").
131	Storage and Recovery - Transfers From Total of water transferred from the Storage and Recovery Account ("takes").
13J	Storage and Recovery - Ending Balance The current balance in the Storage and Recovery Account. [13F] + [13G] + [13H] + [13I].
14A	Water Transactions - Assigned Rights Total of assigned transactions for this period, including annual water transfers/leases between Appropriators and/or from Appropriators to Watermaster for replenishment purposes, and also the Exhibit "G" physical solution transfers from the Non-Ag Pool.
14B	Water Transactions - General Transfer Total of water transfers between Parties for this period.
14C	Water Transactions - Transfers (To) / From ECO Account

Total of water transferred between the Annual Account and ECO Account.



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Column	Title Description
14D	Water Transactions - Transfers (To) Desalter Replenishment Total of water transferred from the ECO Account to the Desalter Replenishment Account.
14E	Water Transactions - Total Water Transactions Total water transactions. [14A]+ [14B] + [14C] + [14D]. This column is used to populate [10F].
15A	Prior Conversion Prior Land Use Conversion in acre-feet.
15B	Conversion @ 1.3 af/ac - Acres Converted parcels in acres at 1.3 acre-feet per acre.
15C	Conversion @ 1.3 af/ac - Acre-Feet Converted parcels in acre-feet at 1.3 acre-feet per acre. [15B] < times> 1.3.
15D	Total Prior to Peace Agrmt Converted AF Total Land Use Conversion in acre-feet prior to the Peace Agreement. [15A] + [15C].
15E	Conversion @ 2.0 af/ac - Acres Converted parcels in acres at 2.0 acre-feet per acre.
15F	Conversion @ 2.0 af/ac - Acre-Feet Converted parcels in acre-feet at 2.0 acre-feet per acre. [15E] <times> 2.0.</times>
15G	Total Land Use Conversion Acre-Feet Total Land Use Conversion in acre-feet for each Party. [15D] + [15F].
16A	% Share of Operating Safe Yield The Party's yearly percentage of Operating Safe Yield. Copied from [10A].
16B	Reallocation of Agricultural Pool Safe Yield - Safe Yield Reduction The Party's percent share of Operating Safe Yield [16A] multiplied by 5,000.
16C	Reallocation of Agricultural Pool Safe Yield - Land Use Conversions Total land use conversions claimed on Page 15.1 (as verified by each Party on their Water Activity Report). Copied from [15G].
16D	Reallocation of Agricultural Pool Safe Yield - Early Transfer The remaining Agricultural Pool Safe Yield (82,800 <minus> Agricultural Pool Production <minus> Safe Yield Reduction <minus> Land Use Conversion) multiplied by percent share of Operating Safe Yield [16A].</minus></minus></minus>
16E	Reallocation of Agricultural Pool Safe Yield - Total Ag Pool Reallocation Each Party's Agricultural Pool Reallocation. [16B] + [16C] + [16D]. This column is used to populate [10E].
17A	Outstanding Obligation (AF) The amount of obligation carried over from prior Assessment Package(s) that were not met due to various reasons, including but not limited to MWD not having replenishment water available to purchase.
17B	Fund Balance (\$) The amount of money collected or owed for replenishment assessments from prior Assessment Packages(s).
17C	Outstanding Obligation (\$) The amount of money that each Party owes or is credited based on current replenishment rate. [17A] <times> [CURRENT RATE] <minus> [17B].</minus></times>
17D	AF Production and Exchanges Each Party's total production and exchanges. Copied from [10K].
17E	85/15 Producers The total production and exchanges of 85/15 Producers only.
17F	Percent The percentage of each 85/15 Producer's total production and exchanges [17E] divided by the sum of [17E].



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Column	Title Description
17G	15% If an 85/15 Producer, then the 85/15 Producers' total Outstanding Obligation (\$) at 15%, multiplied by their production and exchanges percentage. [17C] total of 85/15 Producers <times> 15% <times> [17F].</times></times>
17H	85% If an 85/15 Producer, then the Outstanding Obligation (\$) at 85%.
171	100% If not an 85/15 Producer, then the Outstanding Obligation (\$) at 100%.
17J	Total The total CURO for the year. [17G] + [17H] + [17I].
18A	Desalter Production - Pre-Peace II Desalter Production Production from the Pre-Peace II Desalter Wells.
18B	Desalter Production - Peace II Desalter Expansion Production Production from the Peace II Desalter Expansion Wells.
18C	Desalter Production - Total The combined production from all Desalter Wells. [18A] + [18B].
18D	Desalter Replenishment - Desalter (aka Kaiser) Account PIIA, 6.2 (a)(i) Credit applied to the total Desalter Production from the Kaiser account.
18E	Desalter Replenishment - Paragraph 31 Settlement Agreements Dedication PIIA, 6.2(a)(ii) Credit applied to the total Desalter Production from "dedication of water from the Overlying (Non-Agricultural) Pool Storage Account or from any contribution arising from an annual authorized Physical Solution Transfer in accordance with amended Exhibit G to the Judgment."
18F	Desalter Replenishment - "Leave Behind" Losses PIIA, 6.2(a)(iv) Credit applied to the total Desalter Production from "any declared losses from storage in excess of actual losses enforced as a "Leave Behind"".
18G	Desalter Replenishment - Safe Yield Contributed by Parties PIIA, 6.2(a)(v) Credit applied to the total Desalter Production from "Safe Yield that may be contributed by the parties."
18H	Desalter Replenishment - Controlled Overdraft / Re-Op, PIIA, 6.2(a)(vi) - Allocation to Pre-Peace II Desalters The 225,000 AF portion of the 400,000 AF Controlled Overdraft that was originally allocated to the Pre-Peace II Desalter production.
181	Desalter Replenishment - Controlled Overdraft / Re-Op, PIIA, 6.2(a)(vi) - Allocation to All Desalters The 175,000 AF portion of the 400,000 AF Controlled Overdraft that was originally allocated to the Peace II Desalter Expansion production but is now allocated to all Desalter production per set schedule.
18J	Desalter Replenishment - Controlled Overdraft / Re-Op, PIIA, 6.2(a)(vi) - Balance The remaining balance of the 400,000 AF Controlled Overdraft.
18K	Desalter Replenishment - Appropriative Pool DRO Contribution PIIA, 6.2(b)(ii) The 10,000 AF contribution to the Desalter Replenishment Obligation by the Appropriative Pool.
18L	Desalter Replenishment - Non-Ag OBMP Assessment (10% Haircut) PIIA, 6.2(b)(i) The 10% of the Non-Agricultural Pool Safe Yield used to offset the total Desalter Replenishment Obligation beginning with production year 2016/2017.
18M	Remaining Desalter Replenishment Obligation PIIA, 6.2(b)(iii) Total Desalter Production minus Desalter Replenishment. [18C] - [18D] - [18E] - [18F] - [18G] - [18H] - [18I] - [18K] - [18L].
19A	Percent of Operating Safe Yield The Party's yearly percentage of Operating Safe Yield. Copied from [10A].
19B	Land Use Conversions Total Land Use Conversion in acre-feet for each Party. Copied from [15G].
19C	Percent of Land Use Conversions Each Party's pro rata share of Land Use Conversions [19B] from the total of [19B].



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Column	Title Description
100	85% DROC Based on Percent OSY
19D	Each Party's share of the 10,000 AF Desalter Replenishment Obligation based on OSY. 10,000 <times> 0.85 <times> [19A].</times></times>
19E	15% DROC Based on Percent of LUC
19E	Each Party's share of the 10,000 AF Desalter Replenishment Obligation based on Percent of Land Use Conversions. 10,000 <times> 0.15 <times> [19C].</times></times>
405	Total Desalter Replenishment
19F	Each Party's share of the 10,000 AF Desalter Replenishment Obligation. [19D] + [19E].
20A	Assigned Share of Operating Safe Yield
ZUA	The Party's yearly volume of Operating Safe Yield. Copied from [10D].
200	Physical Production Adjustment Calculation - Physical Production
20B	Fiscal year physical production by each Party. Copied from [9A].
	Physical Production Adjustment Calculation - 50% of Voluntary Agreements with Ag
20C	Total of water provided to Agricultural Pool Parties multiplied by 50%. [9B] <times> 0.50.</times>
	Physical Production Adjustment Calculation - Assignments with Non-Ag
20D	Total of water provided to Non-Agricultural Pool Parties. Copied from [9C].
20E	Physical Production Adjustment Calculation - Storage and Recovery Programs
	Total exchanges for the period (July 1 - June 30) including MZ1 forbearance and DYY deliveries (as reported to CBWM by IEUA and TVMWD and as verified by each Party on their Water Activity Report). Copied from [10J].
205	Physical Production Adjustment Calculation - Other Adjustments
20F	Total of water received from, or provided to, another Appropriator. Also includes production off-sets. Copied from [9D] but does not include production adjustments to prevent a negative annual production to a Party.
	Physical Production Adjustment Calculation - Total Adjusted Production
20G	Each Party's Adjusted Physical Production. [20B] + [20C] + [20D] + [20E] + [20F].
	RDRO Calculation - Total Production and OSY Basis
20H	The sum of each Party's Adjusted Physical Production and Assigned Share of Operating Safe Yield. [20A] + [20G].
201	RDRO Calculation - Percentage
201	The percentage of each Party's Adjusted Physical Production and Assigned Share of Operating Safe Yield basis. [20H] divided by the sum of [20H].
	RDRO Calculation - Individual Party RDRO
20J	Each Party's pro rata share of the Remaining Desalter Replenishment Obligation. [201] <times> Total RDRO.</times>
	Desalter Replenishment Obligation in AF - Desalter Replenishment Obligation Contribution (DROC)
21A	Each Party's share of the 10,000 AF Desalter Replenishment Obligation Contribution. Copied from [19F].
	Desalter Replenishment Obligation in AF - Remaining Desalter Replenishment Obligation (RDRO)
21B	Each Party's pro rata share of the Remaining Desalter Replenishment Obligation. Copied from [20J].
	Desalter Replenishment Obligation in AF - Total Desalter Replenishment Obligation
21C	The sum of Desalter Replenishment Obligation Contribution, and Remaining Desalter Replenishment Obligation. [21A] + [21B].
21D	Total DRO Fulfillment Activity - Transfer from Dedicated Replenishment Account
	Total of water transferred from Desalter Dedicated Replenishment Account to satisfy the desalter replenishment obligation.
21E	Total DRO Fulfillment Activity - Transfer from Excess Carry Over Storage Account
	Total of water transferred from Excess Carry Over Storage Account to satisfy the desalter replenishment obligation.
245	Total DRO Fulfillment Activity - Transfer from Recharged Recycled Storage Account
21F	Total of water transferred from Recharged Recycle Storage Account to satisfy the desalter replenishment obligation.
61=	Total DRO Fulfillment Activity - Transfer from Quantified Storage Account
21G	Total of water transferred from Quantified Storage Account to satisfy the desalter replenishment obligation.



December 2017.

Assessment Year 2021-2022 (Production Year 2020-2021)

Assessment Package References and Definitions

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Column	Title Description
21H	Total DRO Fulfillment Activity - Transfer from Post 7/1/2000 Storage Account Total of water transferred from Post 7/1/2000 Storage Account to satisfy the desalter replenishment obligation.
211	Total DRO Fulfillment Activity - Replenishment Water Purchase Total of water purchased to satisfy the desalter replenishment obligation.
21J	Total DRO Fulfillment Activity - Total Transfers and Water Purchases The sum of all transfers and purchases to satisfy the desalter replenishment obligation. [21D] + [21E] + [21F] + [21G] + [21H] + [21I].
21K	Assessments - Residual DRO (AF) Total residual Desalter Replenishment Obligation after transfers and purchases. [21C] + [21J].
21L	Assessments - Assessments Due On Residual DRO (\$) Total assessments due for Desalter Replenishment. [21K] < times> [Current Replenishment Rate]. This column is used to populate [8S].
26A	FY 2016/2017 Water Purchases - Purchased Water in AF - 20160623 - RO The amount of water purchased to satisfy the accumulated replenishment obligation through the end of production year 2014/15. Water was delivered in October 2016.
26B	FY 2016/2017 Water Purchases - Purchased Water in AF - 20160623 - DRO The amount of water purchased to be used towards the Desalter Replenishment Obligation. Water was delivered in October 2016.
26C	FY 2016/2017 Water Purchases - Purchased Water in AF - 20161216 - DRO The amount of water purchased to be used towards the Desalter Replenishment Obligation. Water was delivered in December 2016.
26D	FY 2016/2017 Water Purchases - Purchased Water in AF - 20170418 - RO The amount of water purchased to satisfy production year 2015/16 replenishment obligation. Water was delivered in April 2018.
26E	FY 2016/2017 Water Purchases - Purchased Water in AF - 85/15 Breakdown - AF @ 100% The amount of water purchased subject to 100% RTS rate. This applies to: DRO water; RO water of non-85/15 Pool 3 producers; and RO water of Pool 2 producers. 1) Pool 3, 85/15 Ineligible: [26A] + [26B] + [26C] + [26D]. 2) Pool 3, 85/15 Eligible: [26B] + [26C]. 3) Pool 2: [26A] + [26D].
26F	FY 2016/2017 Water Purchases - Purchased Water in AF - 85/15 Breakdown - AF @ 85/15 The amount of water purchased subject to the 85/15 Rule. This applies to RO water of 85/15 Pool 3 producers. 1) Pool 3, 85/15 Eligible: [26A] + [26D].
26G	FY 2016/2017 Water Purchases - Purchased Water in AF - 85/15 Breakdown - AF Total Total water purchased by each Appropriative Pool or Non-Agricultural Pool Party. [26E] + [26F].
26H	FY 2016/2017 Water Purchases - 2015/16 Prod & Exch From 85/15 Producers - Acre-Feet Total production and exchanges of 85/15 Producers from fiscal year 2015/16. This is the basis of the 85/15 Rule for water purchased in fiscal year 2016/17.
261	FY 2016/2017 Water Purchases - 2015/16 Prod & Exch From 85/15 Producers - Percent The percentage of each 85/15 Producer's total production and exchanges. [26H] divided by the sum of [26H].
26J	FY 2016/2017 Water Purchases - Year 3 RTS Charges - 15% If an 85/15 Producer, then each 85/15 Producer's share of the total RTS charge of 85/15 eligible water. "Total RTS Charge" <divided by=""> "Total Water Purchased" <times> 0.15 <times> [26F] Total <times> [26I].</times></times></times></divided>
26K	FY 2016/2017 Water Purchases - Year 3 RTS Charges - 85% If an 85/15 Producer, then their RTS charge of 85/15 eligible water at 85%. "Total RTS Charge" <divided by=""> "Total Water Purchased" <times> [26F] <times> 0.85.</times></times></divided>
26L	FY 2016/2017 Water Purchases - Year 3 RTS Charges - 100% RTS charge on all water not subject to the 85/15 Rule. "Total RTS Charge" <divided by=""> "Total Water Purchased" <times> [26E].</times></divided>
26M	FY 2017/2018 Water Purchase - Purchased Water in AF - 20171211 - RO

The amount of water purchased to satisfy replenishment obligations through the end of production year 2014/15. Water was delivered in





Column	Title Description
26N	FY 2017/2018 Water Purchase - Purchased Water in AF - 20171211 - DRO
2014	The amount of water purchased to be used towards the Desalter Replenishment Obligation. Water was delivered in December 2017.
260	FY 2017/2018 Water Purchase - 2016/17 Prod & Exch From 85/15 Producers - Acre-Feet
200	Total production and exchanges of 85/15 Producers from fiscal year 2016/17. This is the basis of the 85/15 Rule for water purchased in fiscal year 2017/18.
26P	FY 2017/2018 Water Purchase - 2016/17 Prod & Exch From 85/15 Producers - Percent
	The percentage of each 85/15 Producer's total production and exchanges. [260] divided by the sum of [260].
26Q	FY 2017/2018 Water Purchase - Year 2 RTS Charges - 15%
	If an 85/15 Producer, then each 85/15 Producer's share of the total RTS charge of 85/15 eligible water in [26M].
26R	FY 2017/2018 Water Purchase - Year 2 RTS Charges - 85%
	If an 85/15 Producer, then their RTS charge of 85/15 eligible water in [26M] at 85%.
26S	FY 2017/2018 Water Purchase - Year 2 RTS Charges - 100%
	RTS charge on all water in {26N] and water not subject to the 85/15 Rule in [26M].
26T	TOTAL RTS CHARGES
	Total RTS Charge. [26J] + [26K] + [26L] + [26R] + [26R] + [26S].

II. BUSINESS ITEMS E. RESOLUTION TO LEVY REPLENISHMENT AND ADMINSTRATIVE ASSESSMENTS FOR FISCAL YEAR 2021/22	



CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: AP/ONAP/OAP Members

SUBJECT: Resolution to Levy Replenishment and Administrative Assessments for Fiscal

Year 2021/22 (Based on Production Year 2020/21) – (Business Item II.E.)

SUMMARY

<u>Issue</u>: A resolution is required for the Chino Basin Watermaster to levy administrative, special project, and replenishment assessments for Fiscal Year 2021/22.

Recommendation: Review Resolution 2021-05 as presented and offer advice to Watermaster.

<u>Financial Impact:</u> Collection of the assessments according to the Assessment Package creates the funds that are used during the current fiscal year for budgeted expenses.

Future Consideration

Appropriative Pool – November 10, 2021: Advice and assistance Non-Agricultural Pool – November 10, 2021: Advice and assistance Agricultural Pool – November 10, 2021: Advice and assistance Advisory Committee – November 18, 2021: Advice and assistance

Watermaster Board – November 18, 2021: Approval [Within WM Duties and Powers]

ACTIONS:

Appropriative Pool – November 10, 2021: Non-Agricultural Pool – November 10, 2021: Agricultural Pool – November 10, 2021: Advisory Committee – November 18, 2021: Watermaster Board – November 18, 2021:

BACKGROUND

Watermaster issues an Assessment Package annually based on the previous production year (July 1 through June 30). Production information is generally collected quarterly, and other necessary information is collected annually. The Assessment Package creates funds that are used during the current fiscal year for budgeted expenses. Assessments are based on the approved budget divided by the total assessable production in the Basin. Watermaster is endowed with powers to levy and collect administrative, special project, and replenishment assessments necessary to maintain water levels and to cover the cost of administering the Chino Basin Restated Judgment. A resolution of the Watermaster Board is needed to levy the assessments and issue invoices to parties. Pursuant to the Restated Judgment, each party has thirty days from the date of invoice to remit the amount of payment for assessments due. After that date, interest will accrue on that portion which was due as provided for in Section 55(c) of the Restated Judgment.

DISCUSSION

The draft Fiscal Year 2021/22 Assessment Package is being considered for approval this month under Business Item II.C. and Resolution 2021-05 has been drafted for the Watermaster Board's consideration

If Resolution 2021-05 is approved through the Watermaster process in November 2021, the invoices will be emailed in late November and assessments will be due 30 days later.

ATTACHMENTS

1. Resolution 2021-05: A resolution of the Chino Basin Watermaster levying administrative, replenishment, and special project assessments for Fiscal Year 2021/22.

RESOLUTION 2021-05

A RESOLUTION OF THE CHINO BASIN WATERMASTER LEVYING ADMINISTRATIVE, REPLENISHMENT, AND SPECIAL PROJECT ASSESSMENTS FOR FISCAL YEAR 2021-2022

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

WHEREAS, the Watermaster Advisory Committee approved and the Watermaster Board adopted the Fiscal Year 2021-2022 Budget on May 27, 2021 and subsequently amended on July 22, 2021, September 23, 2021, and October 28, 2021, to carry out the necessary Watermaster functions under the Judgment; and

WHEREAS, the parties named in this Judgment have pumped 1,823.7 acre-feet of water in excess of the operating safe yield, which is required to be replaced at the expense of the parties in accordance with the assessment formulas for the respective pools.

NOW, THEREFORE, BE IT RESOLVED that the Chino Basin Watermaster levies the respective assessments for each pool effective November 18, 2021 as shown on Exhibit "A" attached hereto.

BE IT FURTHER RESOLVED, that pursuant to the Judgment, each party has thirty (30) days from the date of invoice to remit the amount of payment for assessments due. After that date, interest will accrue on that portion which was due as provided for in Section 55 (c) of the Restated Judgment.

THE FOREGOING RESOLUTION was

ADOPTED by the Watermaster Board on the 18th day of November 2021.

	By:Chair – Watermaster Board	
ATTEST:		
Secretary/Treasurer – Watermaster Board		

Exhibit "A" Resolution 2021-05

Summary of Assessments Fiscal Year 2021-2022 Production Year 2020-2021

1.	OVER	RLYING (NON-AGRICULTURAL) POOL	
	a.	2021-2022 Budget	\$ 22.27 Per AF - Admin. \$ 48.25 Per AF - OBMP
	b.	Replenishment	\$ <u>789.00</u> Per AF
	C.	CURO	\$ <u>404.12</u> Total
2.	APPR	OPRIATIVE POOL	
	a.	Administration	
		1. 2021-2022 Budget	\$ 22.27 Per AF - Admin. \$ 48.25 Per AF - OBMP
		2. Ag Pool Reallocated	\$7.80Per AF - Admin. \$16.91Per AF - OBMP
	b.	100% Net Replenishment	\$ <u>789.00</u> Per AF
	C.	15/85 Water Activity	
		15% Replenishment Assessments	\$ <u>2,032.43</u> Total
		15% Water Transaction Activity	\$ <u>629,915.47</u> Total
	d.	CURO	\$ <u>18,143.71</u> Total
	e.	Pomona Credit	\$ <u>66,667.00</u> Total
	f.	Recharge Debt Payment	\$ <u>529,029.00</u> Total
	g.	Recharge Improvement Project	\$ <u>0.00</u> Total

STATE OF CAL	LIFORNIA)	
COUNTY OF S	AN BERNARDINO) ss)	
			asin Watermaster, DO HEREBY CERTIFY that the a regular meeting of the Chino Basin Watermaster
Board on Nove	mber 18, 2021 by the	following vote:	a regular meeting of the Chine Basin Watermaster
AYES:	0		
NOES:	0		
ABSENT:	0		
ABSTAIN:	0		
			CHINO BASIN WATERMASTER
			or into Broth with Entire 12 it
			Secretary
.			
Date:	November 18, 2021	<u>İ</u>	_

II. BUSINESS ITEMS (OAP) F. OLD BUSINESS – FINANCIAL REPORTS (FROM PRIOR MONTH'S AGENDA) Receive and File as presented: 1. Cash Disbursements for the month of August 2021 2. Watermaster VISA Check Detail for the month of August 2021 3. Combining Schedule for the Period July 1, 2021 through August 30, 2021 4. Treasurer's report of Financial Affairs for the Period August 1, 2021 through August 30, 2021 5. Budget vs. Actual Report for the Period July 1, 2021 through August 30, 2021
2021



CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: Agricultural Pool Members

SUBJECT: Cash Disbursement Report - Financial Report B1 (August 31,

2021) (Business Item II.F.1.)

SUMMARY

Issue: Record of Cash Disbursements for the month of August 2021.

Recommendation: Receive and file Cash Disbursements for August 2021 as presented.

Financial Impact: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster

Budget.

Future Consideration

Agricultural Pool - November 10, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – October 14, 2021: Received and filed

Non-Agricultural Pool - October 14, 2021: Moved unanimously to receive and file, without approval

Agricultural Pool – October 14, 2021: Pulled from Consent to allow the Watermaster CFO (who was absent) to answer Mr. Raughley's questions regarding certain balances within the B-5 report and bring the item back to the November OAP meeting.

Advisory Committee – October 21, 2021: Received and filed Watermaster Board – October 28, 2021: Received and filed

Agricultural Pool - November 10, 2021:

BACKGROUND

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

DISCUSSION

Total cash disbursements during the month of August 2021 were \$406,019.49.

The most significant expenditures during the month were to Brownstein Hyatt Farber Schreck in the amounts of \$62,559.28 and \$51,439.72 (check number 22970 dated August 3, 2021 and check number 23017 dated August 25, 2021).

ATTACHMENTS

1. Financial Report – B1

	Туре	Date	Num	Name Name	Memo	Account	Paid Amount
	Bill Pmt -Check	08/03/2021	22966	ACCENT COMPUTER SOLUTIONS, INC.	145590	1012 · Bank of America Gen'l Ckg	
	Bill	08/01/2021	145590		Monthly Services - August 2021	6052.4 · IT Managed Services	4,018.28
					Overwatch - August 2021	6052.5 · IT Data Backup/Storage	699.00
					OmniCloud - August 2021	6052.5 · IT Data Backup/Storage	170.00
					Office 365 Subscriptions/Business - August 2021	6052.4 · IT Managed Services	204.75
					Image office storage (per GB, per month)	6052.5 · IT Data Backup/Storage	546.00
TOTA	L						5,638.03
	Bill Pmt -Check	08/03/2021	22967	ACWA JOINT POWERS INSURANCE AUTHOR	RIT 0671881	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/01/2021	0671881		Prepayment - September 2021	1409 · Prepaid Life, BAD&D & LTD	246.83
					August 2021	60191 · Life & Disab.Ins Benefits	246.83
TOTA	L						493.66
	Bill Pmt -Check	08/03/2021	22968	APPLEONE	01-5986759	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/21/2021	01-5986759		Brian Summers	6017.2 · Office Specialist Services	1,260.80
TOTA	L						1,260.80
	Bill Pmt -Check	08/03/2021	22969	APPLIED COMPUTER TECHNOLOGIES	3417	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/29/2021	3417		Database Consulting - July 2021	6052.2 · Applied Computer Technol	3,850.00
TOTA	L						3,850.00
	Bill Pmt -Check	08/03/2021	22970	BROWNSTEIN HYATT FARBER SCHRECK		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	06/30/2021	852867		852867	6078 · BHFS Legal - Miscellaneous	23,772.15
	Bill	06/30/2021	852868		GM Evaluation, Contracts, COVID Work	6073 · BHFS Legal - Personnel Matters	11,479.50
	Bill	06/30/2021	852869		852869	6907.34 · Santa Ana River Water Rights	89.10
	Bill	06/30/2021	852870		852870	6907.36 · Santa Ana River Habitat	89.10
	Bill	06/30/2021	852871		852871	6275 · BHFS Legal - Advisory Committee	757.35
	Bill	06/30/2021	852872		852872	6375 · BHFS Legal - Board Meeting	4,220.10
	Bill	06/30/2021	852873		852873	8375 · BHFS Legal - Appropriative Pool	1,559.25
	Bill	06/30/2021	852874		852874	8475 · BHFS Legal - Agricultural Pool	1,470.15
	Bill	06/30/2021	852875		852875	8575 · BHFS Legal - Non-Ag Pool	1,470.15
	Bill	06/30/2021	852876		852876	6071 · BHFS Legal - Court Coordination	11,639.70
					06/21/21 Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	27.00
					06/21/21 Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	17.00
					06/23/21 CourtCall-De Jesus	6071 · BHFS Legal - Court Coordination	94.00
					06/23/21 CourtCall-Bowcock	6071 · BHFS Legal - Court Coordination	94.00
					06/23/21 CourtCall-Wilson	6071 · BHFS Legal - Court Coordination	94.00
					06/23/21 CourtCall-Pierson	6071 · BHFS Legal - Court Coordination	94.00
					06/23/21 CourtCall-Gardner	6071 · BHFS Legal - Court Coordination	94.00
					06/23/21 CourtCall-Curatalo	6071 · BHFS Legal - Court Coordination	94.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
•					06/23/21 CourtCall-Rogers	6071 · BHFS Legal - Court Coordination	94.00
					06/25/21 Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	86.23
	Bill	06/30/2021	852877		852877	6077 · BHFS Legal - Party Status Maint	356.40
	Bill	06/30/2021	852878		852878	6907.38 · Reg. Water Quality Cntrl Board	222.75
	Bill	06/30/2021	852879		852879	6907.45 · OBMP Update	2,871.45
	Bill	06/30/2021	852880		852880	6907.47 · 2020 Safe Yield Reset	89.10
	Bill	06/30/2021	852881		852881	6078.25 ⋅ Ely 3 Basin Investigation	1,684.80
TOTAL							62,559.28
	Bill Pmt -Check	08/03/2021	22971	BURRTEC WASTE INDUSTRIES, INC.	N2112132194	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/30/2021	N2112132194		August 2021	6024 · Building Repair & Maintenance	142.50
TOTAL					•		142.50
	Bill Pmt -Check	08/03/2021	22972	DE HAAN, HENRY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	06/10/2021	6/10 Ag Pool Mtg	DE HAAN, HENRY	6/10/21 Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
	DIII	00/10/2021	0/10 Ag Fool Mig		6/10/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL					0/10/21 Ag Fool Weeting	0470 · Ag Meeting Attenti -Special	125.00
	Bill Pmt -Check	08/03/2021	22973	EMPOWER LAB	1931	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2021	1931		Empower Lab - July 2021	6193 · Employee Training	1,075.00
TOTAL							1,075.00
	Bill Pmt -Check	08/03/2021	22974	ESRI	94077205	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/21/2021	94077205		ESRI maintenance 8/19/2021-8/18/2022	6054 · Computer Software	1,000.00
TOTAL						·	1,000.00
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Bill Pmt -Check	08/03/2021	22975	FEDAK & BROWN LLP	Progress Billing	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/30/2021			July 2020	6062 · Audit Services	1,490.00
TOTAL							1,490.00
	Bill Pmt -Check	08/03/2021	22976	FLOOR COVERINGS INTERNATIONAL	25% Deposit	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/21/2021	25% deposit		25% deposit on total invoice of \$30,003.53	1840 · Capital Assets	7,500.88
TOTAL							7,500.88
	Bill Pmt -Check	08/03/2021	22977	EASTVALE DEVELOPMENT COMPANY-PIER	SCAn and Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	06/02/2021	6/02 Mtg w/Ag Chair	E. C. TALL DEVELOR MENT COM ANTI-TIEN	6/02/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/02/2021	6/02 Mtg w/Ag Pool		6/02/21 Conference call w/Ag Pool Members	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/03/2021	6/03 Mtg w/Ag Chair		6/03/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/07/2021	6/07 Mtg w/Ag Chair		6/07/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/08/2021	6/08 Board Officers		6/08/21 Board Officers Check In	6311 · Board Member Compensation	125.00
		00,00,E0E1			Dodia omooio onook iii	22 20a.a momeon componidation	120.00

Page 285

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	06/10/2021	6/10 Mtg w/Ag Chair		6/10/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/10/2021	6/10 Ag Pool Mtg		6/10/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/11/2021	6/11 Mtg w/WM		6/11/21 Mtg. with PK, WY, Vanden Heuvel	6311 · Board Member Compensation	125.00
	Bill	06/11/2021	6/11 Mtg w/Ag Chair		6/11/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/15/2021	6/15 Mtg w/Ag Pool		6/15/21 Conference call w/Ag Pool Members	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/15/2021	6/15 Mtg w/Ag Chair		6/15/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/17/2021	6/17 Board Officers		6/17/21 Board Officers Meeting	6311 · Board Member Compensation	125.00
	Bill	06/17/2021	6/17 Advisory Comm		6/17/21 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/17/2021	6/17 Mtg w/Ag Chair		6/17/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/18/2021	6/18 Mtg w/Ag Pool		6/18/21 Conference call w/Ag Pool Members	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/22/2021	6/22 Board Officers		6/22/21 Board Officers Meeting	6311 · Board Member Compensation	125.00
	Bill	06/24/2021	6/24 Board Mtg		6/24/21 Board Meeting	6311 · Board Member Compensation	125.00
	Bill	06/24/2021	6/24 Mtg w/Ag Chair		6/24/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/24/2021	6/24 Mtg w/Ag Pool		6/24/21 Conference call w/Ag Pool Members	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/25/2021	6/25 Court Hearing		6/25/21 Court Hearing	6311 · Board Member Compensation	125.00
	Bill	06/25/2021	6/25 Mtg w/Ag Chair		6/25/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	06/29/2021	6/29 Mtg w/Ag Chair		6/29/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
TOTAL	-						2,750.00
	Bill Pmt -Check	08/03/2021	22978	PREMIERE GLOBAL SERVICES	30682410	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/26/2021	30682410		Fee - General	6022 · Telephone	39.00
					Fee - Confidential	6022 · Telephone	39.00
					Service fee	6022 · Telephone	8.50
					Shortfall	6022 · Telephone	78.00
TOTAL							164.50
	-						
	Bill Pmt -Check	08/03/2021	22979	PURCHASE POWER	8000-9090-0016-8851	1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2021	8000909000168851		Postage refill - 6/25/21	6042 · Postage - General	500.00
TOTAL	-						500.00
	Bill Pmt -Check	08/03/2021	22980	RR FRANCHISING, INC.	101918	1012 · Bank of America Gen'l Ckg	
	Bill	08/01/2021	101918		Monthly service - August 2021	6024 · Building Repair & Maintenance	915.00
TOTAL							915.00
	Bill Pmt -Check	08/03/2021	22981	SANTA ANA WATERSHED PROJECT AUTHO		1012 · Bank of America Gen'l Ckg	
	Bill	07/21/2021	BMPTF 2022-02		FY 2021-22 Basin Mon. Prg. Task Force	6903 · OBMP SAWPA Group	20,158.00
TOTAL	-						20,158.00
	Bill Pmt -Check	08/03/2021	22982	SPECTRUM BUSINESS	2031978072321	1012 · Bank of America Gen'l Ckg	

Page 286

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTA	L						804.52
	Dill Door Observe	00/00/0004	00000	STATE COMPENSATION INCUDANCE FUND	4070070	4040 Barrier America Carril Char	
	Bill Pmt -Check	08/03/2021 08/01/2021	22983 1000293041	STATE COMPENSATION INSURANCE FUND	1970970 Premium charge 7/26/21-8/26/21	1012 · Bank of America Gen'l Ckg 60183 · Worker's Comp Insurance	702.33
TOTA		00/01/2021	1000233041		Tremium charge 1/20/21-0/20/21	outos - worker's comp insurance	702.33
	Bill Pmt -Check	08/03/2021	22984	TOM DODSON & ASSOCIATES	CB271 21-4	1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2021	CBW271 21-4		June 2021	6908.1 · 2020 OBMP Update-Dodson & Assoc	8,361.25
TOTA	L						8,361.25
	Bill Pmt -Check	09/02/2024	22985	UNION 76	7076-2245-3035-5049	1012 Ponk of America Con!! Ckg	
	Bill	08/03/2021 07/29/2021	7076224530355049	UNION 76	July 2021	1012 · Bank of America Gen'l Ckg 6175 · Vehicle Fuel	215.15
TOTA		0172072021	707022100000010		odiy 2021	-	215.15
	Bill Pmt -Check	08/03/2021	22986	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
	Bill	07/19/2021	00101789		Vision Insurance Premium - August 2021	60182.2 · Dental & Vision Ins	93.83
TOTA	L						93.83
	Dill Dest Charle	00/02/2024	ACH 080321	CALPERS	1394905143	4042 Bank of America Carll Chr.	
	Bill Pmt -Check	08/03/2021 08/01/2021	1394905143	CALPERS	Medical Insurance Premiums - August 2021	1012 · Bank of America Gen'l Ckg 60182.1 · Medical Insurance	11,327.95
TOTA		00/01/2021	1004000140		Medical Insulation Fremiums / August 2021	00 102.11 · Modical Insulation	11,327.95
	_						,6266
	General Journal	08/03/2021	08/03/2021	HEALTH EQUITY	Health Equity Invoice 2953123	1012 · Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 2953123	1012 · Bank of America Gen'l Ckg	55.86
TOTA	L						55.86
	Bill Pmt -Check	08/04/2021	22987	APPLEONE	01-5993321	1012 Ponk of America Con!! Ckg	
	Bill	07/28/2021	01-5993321	AFFLEUNE	Brian Summers	1012 · Bank of America Gen'l Ckg 6017.2 · Office Specialist Services	1,260.80
TOTA		***********				_	1,260.80
							•
	Bill Pmt -Check	08/04/2021	22988	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/08/2021	7/08 Ag Pool Mtg		7/08/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						250.00
	Bill Pmt -Check	08/04/2021	22989	EGOSCUE LAW GROUP, INC.	VOID: July 2021	1012 · Bank of America Gen'l Ckg	0.00
TOTA		00/0 1/2021			. 5.5. 5.1., 252.		0.00
							-
	Bill Pmt -Check	08/04/2021	22990	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting	6311 · Board Member Compensation	125.00

Page 287

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	07/24/2021	7/24 Admin Mtg		7/24/21 Administrative Meeting	6311 · Board Member Compensation	125.00
TOTA	.L						250.00
	Bill Pmt -Check	08/04/2021	22991	FILIPPI, GINO	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/08/2021	7/08 Ag Pool Mtg		7/08/21 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/15/2021	7/15 Advisory Comm		7/15/21 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTA	.L						375.00
	Bill Pmt -Check	08/04/2021	22992	FOLSOM, BETTY	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/20/2021	7/20 Call w/Bd Chair	•	7/20/21 call with Board Chair	6311 · Board Member Compensation	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting	6311 · Board Member Compensation	125.00
TOTA	.L		· ·		· ·	·	250.00
	Bill Pmt -Check	08/04/2021	22993	GEYE, BRIAN	Non-Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/08/2021	7/08 Non Ag Mtg		7/08/21 Non-Ag Pool Meeting	8511 · Non-Ag Pool Member Compensation	125.00
	Bill	07/15/2021	7/15 Advisory Comm		7/15/21 Advisory Committee Meeting	8511 · Non-Ag Pool Member Compensation	125.00
	Bill	07/15/2021	7/15 Bd/Pool Chair		7/15/21 Board Officers/Pool Chairs Meeting	8511 · Non-Ag Pool Member Compensation	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting	8511 · Non-Ag Pool Member Compensation	125.00
TOTA	L.						500.00
	Bill Pmt -Check	08/04/2021	22994	KUHN, BOB	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/06/2021	7/06 Exec Committee	•	7/06/21 Executive Committee Meeting	6311 · Board Member Compensation	125.00
	Bill	07/09/2021	7/09 Admin Mtg		7/09/21 Administrative Meeting	6311 · Board Member Compensation	125.00
	Bill	07/13/2021	7/13 WM 101		7/13/21 Introduction WM 101 w/Mr. Gardner	6311 · Board Member Compensation	125.00
	Bill	07/15/2021	7/15 Advisory Comm		7/15/21 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
	Bill	07/20/2021	7/20 Exec Committee		7/20/21 Executive Committee Meeting	6311 - Board Member Compensation	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting	6311 · Board Member Compensation	125.00
TOTA	.L						750.00
	Bill Pmt -Check	08/04/2021	22995	ROGERS, PETER	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/20/2021	7/20 Mtg w/Bd Chair	NOCENC, I ETEN	7/20/21 Mtg. w/Approp. Chair & Board Chair	6311 · Board Member Compensation	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting	6311 · Board Member Compensation	125.00
TOTA		0172272021	1/22 Board Mig		172221 Board Wooding	corr Board Monipol Componication	250.00
	Bill Pmt -Check	08/04/2021	22996	STATE COMPENSATION INSURANCE FUND	1970970-20	1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2021	1970970-20		Final premium statement -2020	60183 · Worker's Comp Insurance	1,070.62
TOTA	.L						1,070.62
	Bill Pmt -Check	08/04/2021	22997	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	07/08/2021	7/08 Appro Pool Mtg		7/08/21 AP Pool meeting - Gardner	6311 · Board Member Compensation	125.00
	Bill	07/13/2021	7/13 WM Orientation		7/13/21 WM Orientation meeting - Gardner	6311 · Board Member Compensation	125.00
	Bill	07/15/2021	7/15 Advisory Comm		7/15/21 Advisory Comm. meeting - Gardner	6311 · Board Member Compensation	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board meeting - Gardner	6311 · Board Member Compensation	125.00
TOTAL	-						500.00
	General Journal	08/07/2021	08/07/2021	Payroll and Taxes for 07/25/21-08/07/21	Payroll and Taxes for 07/25/21-08/07/21	1012 ⋅ Bank of America Gen'l Ckg	
				ADP, LLC	Direct Deposits for 07/25/21-08/07/21	1012 · Bank of America Gen'l Ckg	31,781.38
				ADP, LLC	Payroll and Taxes for 07/25/21-08/07/21	1012 · Bank of America Gen'l Ckg	12,270.52
				MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 07/25/21-08/07/21	1012 · Bank of America Gen'l Ckg	5,255.39
				MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 07/25/21-08/07/21	1012 · Bank of America Gen'l Ckg	1,694.48
TOTAL	-						51,001.77
	General Journal	08/10/2021	08/10/2021	HEALTH EQUITY	Health Equity Invoice 2965434	1012 ⋅ Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 2965434	1012 · Bank of America Gen'l Ckg	186.23
TOTAL						· ·	186.23
101712	-						100.20
	Bill Pmt -Check	08/11/2021	22998	ACCENT COMPUTER SOLUTIONS, INC.	145837	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/31/2021	145837	,	Adobe Acrobat Pro DC licensing subsription	6054 · Computer Software	152.91
TOTAL	-				- ,		152.91
	Bill Pmt -Check	08/11/2021	22999	APPLEONE	01-6000739	1012 - Bank of America Gen'l Ckg	
	Bill	08/06/2021	01-6000739		Brian Summers	6017.2 · Office Specialist Services	1,245.04
TOTAL	-						1,245.04
	Bill Pmt -Check	08/11/2021	23000	PETTY CASH	2884-2891	1012 · Bank of America Gen'l Ckg	
	Bill	08/06/2021	2884-2891		Miscellaneous office supplies	6031.7 · Other Office Supplies	105.04
					Stamps for self addressed envelopes	6042 · Postage - General	65.00
					Supplies for staff meetings	6141.3 · Admin Meetings	19.08
					Lunch for 8/03 SY Recalculation mtg	6909.1 · OBMP Meetings	93.75
TOTAL	-						282.87
	Bill Pmt -Check	08/11/2021	ACH 081121	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
	General Journal	08/07/2021	08/07/2021	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	C alPERS Retirement 07/25/21-08/07/21	2000 · Accounts Payable	9,186.50
TOTAL	-						9,186.50
	General Journal	08/13/2021	08/13/2021	ADP Tax Service for 07/10/21	ADP Tax Service for 07/10/21	1012 ⋅ Bank of America Gen'l Ckg	
				ADP, LLC	ADP Tax Service for 07/10/21-585891743	1012 · Bank of America Gen'l Ckg	155.50
				ADP, LLC	ADP Tax Service for 07/24/21-585891743	1012 · Bank of America Gen'l Ckg	155.50
TOTAL	_						311.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	General Journal	08/16/2021	08/16/2021	HEALTH EQUITY	Health Equity Invoice 2967071	1012 ⋅ Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 2967071	1012 · Bank of America Gen'l Ckg	444.80
TOTA	L				. ,	·	444.80
	Check	08/16/2021	08/16/2021	SERVICE CHARGE	Service Charge	1012 ⋅ Bank of America Gen'l Ckg	
			33,13,2021		Service Charge	6039.1 · Banking Service Charges	1,243.26
TOTA	1					general control constant	1,243.26
	_						.,
	General Journal	08/17/2021	08/17/2021	HEALTH EQUITY	Health Equity Invoice 2978078	1012 · Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 2978078	1012 · Bank of America Gen'l Ckg	37.13
TOTA	L						37.13
	Bill Pmt -Check	08/20/2021	23001	APPLEONE	01-60007958	1012 · Bank of America Gen'l Ckg	
	Bill	08/07/2021	01-6007958		Brian Summers	6017.2 · Office Specialist Services	1,245.04
TOTA	L						1,245.04
	Bill Pmt -Check	08/20/2021	23002	BANK OF AMERICA	XXXX-XXXX-XXXX-4026	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2021	XXXX-XXXX-XXXX-4026	3	Misc. office supplies	6031.7 · Other Office Supplies	20.06
					Misc. office supplies	6031.7 · Other Office Supplies	82.98
					Shipping charge for Blomquist book	6042 · Postage - General	8.38
					Webcams for laptops, misc. office supplies	6055 · Computer Hardware	231.28
					Lunch for 7/13/21 onboarding meeting	6312 · Meeting Expenses	138.84
					Replacement keyboard, mouse, misc.supplies	6031.7 · Other Office Supplies	63.34
					Misc. office supplies	6031.7 · Other Office Supplies	55.97
					Misc. office supplies	6031.7 · Other Office Supplies	67.60
					Replacement keyboard, misc. office supplies	6031.7 · Other Office Supplies	137.30
					Monthly fee for Zoom service	6022 · Telephone	39.21
					Glass subway tile	1840 · Capital Assets	404.43
					Replacement laptop-CFO	6055 · Computer Hardware	1,065.60
					Misc. office supplies	6031.7 · Other Office Supplies	38.97
					Misc. office supplies	6031.7 · Other Office Supplies	45.46
					Misc. office supplies	6031.7 · Other Office Supplies	46.00
					Misc. office supplies	6031.7 · Other Office Supplies	16.03
					Webinar registration	6193 · Employee Training	155.86
					Supplies for 7/22/21 staff meeting	6141.3 · Admin Meetings	27.44
					Supplies for PK mtg w/Chino Hills - R. Craig	8312 · Meeting Expenses	22.92
					Toner, misc. office supplies	6031.7 · Other Office Supplies	298.94
					Replacement desk calculator-CFO	6031.7 · Other Office Supplies	76.76
					Floor & Decor - supplies	1840 · Capital Assets	16.41

	Туре	Date	Num	Name	Memo	Account	Paid Amount
					Power adapter-ETF	6031.7 · Other Office Supplies	30.51
					Rental boxes to pack for office remodel	6031.7 · Other Office Supplies	71.36
					Toner, misc. office supplies	6031.7 · Other Office Supplies	125.69
					Misc. office supplies	6031.7 · Other Office Supplies	360.06
					Plant/card for Board Chair	6312 · Meeting Expenses	137.30
					Dinner for staff working on office remodel	6141.3 · Admin Meetings	22.67
					Faucet and dishwasher for kitchen remodel	1840 · Capital Assets	999.74
					Faucet and dishwasher for kitchen remodel	1840 · Capital Assets	1,525.55
					Rental boxes to pack for office remodel	6031.7 · Other Office Supplies	71.36
					Garbage disposal for kitchen remodel	1840 · Capital Assets	182.71
					Renewal of Notary for A. Nelson	6193 · Employee Training	558.91
TOTA	L						7,145.64
	Bill Pmt -Check	08/20/2021	23003	CORELOGIC INFORMATION SOLUTIONS	82093237	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2021	82093237		July 2021	7103.7 · Grdwtr Qual-Computer Svc	62.50
					82093237	7101.4 · Prod Monitor-Computer	62.50
TOTA	L					·	125.00
	Bill Pmt -Check	08/20/2021	23004	CUCAMONGA VALLEY WATER DISTRICT	Office Lease	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/16/2021	23004	COCAMONGA VALLET WATER DISTRICT	Lease due on September 1, 2021	1422 · Prepaid Rent	7,213.72
TOTA		00/10/2021			Lease due on deplember 1, 2021	1422 - Frepaid Nem	7,213.72
TOTAL	L						7,213.72
	Bill Pmt -Check	08/20/2021	23005	FIRST LEGAL NETWORK LLC	40051396	1012 · Bank of America Gen'l Ckg	
	Bill	07/28/2021	40051396		Court filings for July 2021	6061.5 · Court Filing Services	747.16
TOTA	L						747.16
	Bill Pmt -Check	08/20/2021	23006	FONTANA UNION WATER COMPANY'	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/06/2021	7/06 Board Officers		7/06/21 Board Officers check in - Curatalo	6311 · Board Member Compensation	125.00
	Bill	07/08/2021	7/08 Appro Pool Mtg		7/08/21 Appropriative Pool Meeting - Curatalo	6311 · Board Member Compensation	125.00
	Bill	07/12/2021	7/12 Legal Counsel		7/12/21 Meeting with Legal Counsel - Curatalo	6311 · Board Member Compensation	125.00
	Bill	07/13/2021	7/13 New Rep Mtg		7/13/21 Onboarding of new rep/alternate - Curata	lc 6311 · Board Member Compensation	125.00
	Bill	07/14/2021	7/14 Call w/Legal		7/14/21 Call with Legal Counsel & GM - Curatalo	6311 · Board Member Compensation	125.00
	Bill	07/15/2021	7/15 Board Officers		7/15/21 Board Officers/Pool Chairs - Curatalo	6311 · Board Member Compensation	125.00
	Bill	07/16/2021	7/16 Call w/Legal		7/16/21 Call with AP Legal Counsel - Curatalo	6311 · Board Member Compensation	125.00
	Bill	07/20/2021	7/20 Board Agenda		7/20/21 Board Agenda preview - Curatalo	6311 · Board Member Compensation	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board Meeting - Curatalo	6311 · Board Member Compensation	125.00
TOTA	L						1,125.00
	Bill Pmt -Check	08/20/2021	23007	GREAT AMERICA LEASING CORP.	29900035	1012 · Bank of America Gen'l Ckg	
	Bill	08/17/2021	29900035		Invoice for August 2021 - standard payment	6043.1 · Ricoh Lease Fee	1,481.41
					= · · ·		

	Туре	Date	Num	Name	Memo	Account	Paid Amount
					Supply freight fee	6043.2 · Ricoh Usage & Maintenance Fee	8.57
					Usage for color images	6043.2 · Ricoh Usage & Maintenance Fee	39.46
TOTA	L						1,529.44
	Bill Pmt -Check	08/20/2021	23008	LEGAL SHIELD	111802	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/12/2021	111802	LEGAL GHILLD	Employee deductions - August 2021	60194 · Other Employee Insurance	161.40
TOTA		00/12/2021	111002		Employee deductions //dgdst 2021	00104 - Other Employee insurance	161.40
IOIA	iL						101.40
	Bill Pmt -Check	08/20/2021	23009	LOEB & LOEB LLP	1964470	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2021	1964470		Non-Ag Pool Legal Services - July 2021	8567 · Non-Ag Legal Service	2,077.65
TOTA	L						2,077.65
	Bill Pmt -Check	08/20/2021	23010	ORANGE COUNTY WATER DISTRICT	319872	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/04/2021	319872	SIGNAGE SCOTT TAKEN DISTANCE	2021 Aerial Imagery Prado Basin	7108.6 · Hydraulic Control-Outside Pro	4,500.00
TOTA		00/01/2021	0.00.2		2021 Aleman Imagery Frauer Saem		4,500.00
	Bill Pmt -Check	08/20/2021	23011	EASTVALE DEVELOPMENT COMPANY-PI	ERS(Ag and Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/06/2021	7/06 Call w/Chair		7/06/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/06/2021	7/06 Board Officers		7/06/21 Board Officers check in	6311 · Board Member Compensation	125.00
	Bill	07/08/2021	7/08 Call w/Chair		7/08/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/08/2021	7/08 Ag Pool Mtg		7/08/21 Ag Pool Mtg	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/13/2021	7/13 Call w/Chair		7/13/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/13/2021	7/13 Board Officers		7/13/21 Mtg. w/GM, Board Officers, Gardner	6311 · Board Member Compensation	125.00
	Bill	07/15/2021	7/15 Call w/Chair		7/15/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/15/2021	7/15 Advisory Comm		7/15/21 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/15/2021	7/15 RIPCom Mtg		7/15/21 RIPComm Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/15/2021	7/15 Call re Well		7/15/21 Conference call re well head tax	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/15/2021	7/15 Board Officers		7/15/21 Board Officers and Pool Chairs Mtg	6311 · Board Member Compensation	125.00
	Bill	07/16/2021	7/16 Call w/Bd Chair		7/16/21 Conference call w/Board Chair	6311 · Board Member Compensation	125.00
	Bill	07/19/2021	7/19 Call w/Chair		7/19/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/20/2021	7/20 Board Officers		7/20/21 Board Agenda preview	6311 · Board Member Compensation	125.00
	Bill	07/22/2021	7/22 Call w/Chair		7/22/21 Conference call w/Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/22/2021	7/22 Board Mtg		7/22/21 Board meeting	6311 · Board Member Compensation	125.00
TOTA	L						2,000.00
	Bill Pmt -Check	08/20/2021	23012	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
	Bill	08/31/2021			Retiree Medical	60182.4 · Retiree Medical	19.24
TOTA	L						19.24
	Bill Pmt -Check	08/20/2021	23013	TELLEZ-FOSTER. EDGAR	Employee Reimbursement	1012 ⋅ Bank of America Gen'l Ckg	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	07/28/2021			Ops staff meeting on 7/28/21	6141.3 · Admin Meetings	99.57
TOTAL	-						99.57
	Bill Pmt -Check	08/20/2021	23014	VERIZON WIRELESS	9885537496	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/31/2021	9885537496		Acct #470810953-00002	6022 · Telephone	385.34
TOTAL	-						385.34
	Bill Pmt -Check	08/20/2021	23015	WAXIE SANITARY SUPPLY		1012 · Bank of America Gen'l Ckg	
	Bill	08/11/2021	80207641		Paper towel dispenser	6038 · Other Office Equipment	720.01
	Bill	08/11/2021	80210897		Replacement carbon filters for air purifiers	6038 · Other Office Equipment	157.72
TOTAL	-						877.73
	General Journal	08/23/2021	08/23/2021	HEALTH EQUITY	Health Equity Invoice 2926395	1012 · Bank of America Gen'l Ckg	
	General Journal	00/23/2021	00/23/2021	HEALTH EQUITY	Health Equity Invoice 2926395	1012 · Bank of America Gen'l Ckg	62.92
TOTAL				HEALIT EQUIT	Health Equity invoice 2320333	1012 · Balik of America Gerri Gkg	62.92
TOTAL	-						02.92
	General Journal	08/24/2021	08/24/2021	HEALTH EQUITY	Health Equity Invoice 2992772	1012 · Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 2992772	1012 · Bank of America Gen'l Ckg	53.51
TOTAL	-						53.51
	Bill Pmt -Check	08/25/2021	23016	APPLEONE	01-6013573	1012 · Bank of America Gen'l Ckg	
	Bill	08/18/2021	01-6013573		Brian Summers	6017.2 · Office Specialist Services	1,260.80
TOTAL	-						1,260.80
	Bill Pmt -Check	08/25/2021	23017	BROWNSTEIN HYATT FARBER SCHRECK		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/31/2021	856017	BROWNSTEIN ITTATT I ARBER SOURCER	856017	6078 · BHFS Legal - Miscellaneous	20,893.05
	Bill	07/31/2021	856018		856018	6073 · BHFS Legal - Personnel Matters	2,103.75
	Bill	07/31/2021	856019		856019	6907.36 · Santa Ana River Habitat	792.00
	Bill	07/31/2021	856020		856020	6275 · BHFS Legal - Advisory Committee	1,237.50
	Bill	07/31/2021	856021		856021	6375 · BHFS Legal - Board Meeting	8,506.80
	Bill	07/31/2021	856022		856022	8375 · BHFS Legal · Appropriative Pool	796.50
	Bill	07/31/2021	856023		856023	8475 · BHFS Legal · Agricultural Pool	796.50
	Bill	07/31/2021	856024		856024	8575 · BHFS Legal · Non-Ag Pool	796.50
	Bill	07/31/2021	856025		856025	6071 · BHFS Legal · Court Coordination	5,007.60
	Bill	07/31/2021	856026		856026	6072 · BHFS Legal · Rules & Regs	310.50
	Bill	07/31/2021	856027		856027	6077 · BHFS Legal · Party Status Maint	472.50
	Bill	07/31/2021	856028		856028	6907.39 · Recharge Master Plan	580.50
		3.,31,2021				•	7,500.60
	Bill	07/31/2021	856029		856029	6907.47 · 2020 Safe Yield Reset	
	Bill Bill	07/31/2021 07/31/2021	856029 856030		856029 856030	6907.47 · 2020 Safe Yield Reset 6078.25 · Ely 3 Basin Investigation	1,555.20

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL							51,439.72
	Bill Pmt -Check	08/25/2021	23018	EGOSCUE LAW GROUP, INC.	July 2021	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2021		·	Ag Pool Legal Services - July 2021	8467 · Ag Legal & Technical Services	29,987.50
TOTAL							29,987.50
	Bill Pmt -Check	08/25/2021	23019	EUROFINS EATON ANALYTICAL		1012 - Bank of America Gen'l Ckg	
	Bill	08/23/2021	L0587208		L0587208	7103.5 · Grdwtr Qual-Lab Svcs	1,476.00
	Bill	08/23/2021	L0587209		L0587209	7103.5 · Grdwtr Qual-Lab Svcs	1,476.00
TOTAL							2,952.00
	Bill Pmt -Check	08/25/2021	23020	FRONTIER COMMUNICATIONS		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/10/2021	90948438900509145		Office fax	6022 · Telephone	167.94
	Bill	08/24/2021	90948438900509145		Office fax	6022 · Telephone	176.69
TOTAL							344.63
	Bill Pmt -Check	08/25/2021	23021	JOHN J. SCHATZ	VOID:	1012 ⋅ Bank of America Gen'l Ckg	0.00
TOTAL							0.00
	Bill Pmt -Check	08/25/2021	23022	KESSLER ALAIR INSURANCE SERVICES, INC	. 889551	1012 · Bank of America Gen'l Ckg	
	Bill	08/24/2021	889551		Environ. Pollution Liability 08/30/21-06/30/22	6085 · Business Insurance Package	8,853.24
					Environ. Pollution Liability 07/01/22-08/30/22	1401 · Prepaid Insurance-Pkg	1,776.48
TOTAL							10,629.72
	Bill Pmt -Check	08/25/2021	23023	NELSON, ANNA	Employee Reimbursement	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/24/2021			Tuition reimbursement-AN	6193 · Employee Training	299.00
					Kitchen supplies - dishes, silverware, misc.	6031.7 · Other Office Supplies	298.38
TOTAL							597.38
	Bill Pmt -Check	08/25/2021	23024	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	VOID: Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	0.00
TOTAL							0.00
	Bill Pmt -Check	08/25/2021	23025	READY REFRESH	0023230253	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/24/2021	0023230253		Office Water Bottle - August 2021	6031.7 · Other Office Supplies	21.53
TOTAL							21.53
	Bill Pmt -Check	08/25/2021	23026	RR FRANCHISING, INC.	102682	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/07/2021	102682		Electrostatic spraying of office and annex	6024 · Building Repair & Maintenance	355.00
TOTAL							355.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	08/25/2021	23027	VERIZON WIRELESS	9886154626	1012 · Bank of America Gen'l Ckg	
	Bill	08/24/2021	9886154626		Acct #642073270-00002	7103.7 · Grdwtr Qual-Computer Svc	58.03
TOTA	L						58.03
	Bill Pmt -Check	08/25/2021	ACH 082521	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/01/2021	16507137		Annual Unfunded Accrued Liability-Plan 3299	60180 · Employers PERS Expense	8,989.42
TOTA	L						8,989.42
	Bill Pmt -Check	08/25/2021	ACH 082521	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
	General Journal	08/21/2021	08/21/2021	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 08/08/21-08/21/21	2000 · Accounts Payable	9,186.50
TOTA	L						9,186.50
	General Journal	08/26/2021	08/26/2021	Payroll and Taxes for 08/08/21-08/21/21	Payroll and Taxes for 08/08/21-08/21/21	1012 ⋅ Bank of America Gen'l Ckg	
				ADP, LLC	Direct Deposits for 08/08/21-08/21/21	1012 · Bank of America Gen'l Ckg	37,429.54
				ADP, LLC	Payroll Taxes for 08/08/21-08/21/21	1012 · Bank of America Gen'l Ckg	14,059.64
				MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 08/08/21-08/21/21	1012 · Bank of America Gen'l Ckg	5,765.46
				MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 08/08/21-08/21/21	1012 · Bank of America Gen'l Ckg	1,997.56
TOTA	L						59,252.20
	Bill Pmt -Check	08/30/2021	ACH 083021	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/06/2021	10000001651224		Fees for GASB-68 Reports & Schedules	60180 · Employers PERS Expense	700.00
TOTA	L						700.00
	General Journal	08/31/2021	08/31/2021	HEALTH EQUITY	Health Equity Invoice 3014759	1012 ⋅ Bank of America Gen'l Ckg	
				HEALTH EQUITY	Health Equity Invoice 3014759	1012 · Bank of America Gen'l Ckg	145.23
TOTA	L						145.23
						Total Disbursements:	406,019.49



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: Agricultural Pool Members

SUBJECT: VISA Check Detail Report - Financial Report B2 (August 31,

2021) (Business Item II.F.2.)

SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of August 2021.

Recommendation: Receive and file VISA Check Detail Report for August 2021 as presented.

Financial Impact: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster

Budget.

Future Consideration

Agricultural Pool - November 10, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – October 14, 2021: Received and filed

Non-Agricultural Pool - October 14, 2021: Moved unanimously to receive and file, without approval

Agricultural Pool – October 14, 2021: Pulled from Consent to allow the Watermaster CFO (who was absent) to answer Mr. Raughley's questions regarding certain balances within the B-5 report and bring the item back to the November OAP meeting.

Advisory Committee – October 21, 2021: Received and filed Watermaster Board – October 28, 2021: Received and filed

Agricultural Pool - November 10, 2021:

BACKGROUND

A monthly VISA Check Detail report is provided to keep all members apprised of Watermaster expenditures charged against the General Manager and Chief Financial Officer's Bank of America VISA card.

DISCUSSION

The total cash disbursements during the month of August 2021 was \$7,145.64. The payment was processed in the amount of \$7,145.64 (by check number 23002 dated August 20, 2021). The monthly charges for August 2021 of \$7,145.64 were for routine and customary expenditures and properly documented with receipts.

ATTACHMENTS

1. Financial Report – B2

CHINO BASIN WATERMASTER VISA Check Detail Report August 2021

Туре	Num	Date	Name	Memo	Account	Paid Ar
Bill Pmt -Check	08/20/2021	23002 E	BANK OF AMERICA	XXXX-XXXX-XXXX-4026	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2021	XXXX-XXXX-XXXX-40	026	Misc. office supplies	6031.7 · Other Office Supplies	
				Misc. office supplies	6031.7 · Other Office Supplies	
				Shipping charge for Blomquist book	6042 · Postage - General	
				Webcams for laptops, misc. office supplies	6055 · Computer Hardware	
				Lunch for 7/13/21 onboarding meeting	6312 · Meeting Expenses	
				Replacement keyboard, mouse, misc.supplies	6031.7 · Other Office Supplies	
				Misc. office supplies	6031.7 · Other Office Supplies	
				Misc. office supplies	6031.7 · Other Office Supplies	
				Replacement keyboard, misc. office supplies	6031.7 · Other Office Supplies	
				Monthly fee for Zoom service	6022 · Telephone	
				Glass subway tile	1840 · Capital Assets	
				Replacement laptop-CFO	6055 · Computer Hardware	1,
				Misc. office supplies	6031.7 · Other Office Supplies	
				Misc. office supplies	6031.7 · Other Office Supplies	
				Misc. office supplies	6031.7 · Other Office Supplies	
				Misc. office supplies	6031.7 · Other Office Supplies	
				Webinar registration	6193 · Employee Training	
				Supplies for 7/22/21 staff meeting	6141.3 · Admin Meetings	
				Supplies for PK mtg w/Chino Hills - R. Craig	8312 · Meeting Expenses	
				Toner, misc. office supplies	6031.7 · Other Office Supplies	
				Replacement desk calculator-CFO	6031.7 · Other Office Supplies	
				Floor & Decor - supplies	1840 · Capital Assets	
				Power adapter-ETF	6031.7 · Other Office Supplies	
				Rental boxes to pack for office remodel	6031.7 · Other Office Supplies	
				Toner, misc. office supplies	6031.7 · Other Office Supplies	
				Misc. office supplies	6031.7 · Other Office Supplies	
				Plant/card for Board Chair	6312 · Meeting Expenses	
				Dinner for staff working on office remodel	6141.3 · Admin Meetings	
				Faucet and dishwasher for kitchen remodel	1840 · Capital Assets	
				Faucet and dishwasher for kitchen remodel	1840 · Capital Assets	1
				Rental boxes to pack for office remodel	6031.7 · Other Office Supplies	
				Garbage disposal for kitchen remodel	1840 · Capital Assets	
				Renewal of Notary for A. Nelson	6193 · Employee Training	
					Total Disbursements:	\$7,1



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: Agricultural Pool Members

SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July

1, 2021 through August 31, 2021 - Financial Report B3 (August 31, 2021)

(Business Item II.F.3.)

SUMMARY

<u>Issue</u>: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2021 through August 31, 2021.

<u>Recommendation</u>: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2021 through August 31, 2021 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster Budget.

Future Consideration

Agricultural Pool - November 10, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – October 14, 2021: Received and filed

Non-Agricultural Pool - October 14, 2021: Moved unanimously to receive and file, without approval

Agricultural Pool – October 14, 2021: Pulled from Consent to allow the Watermaster CFO (who was absent) to answer Mr. Raughley's questions regarding certain balances within the B-5 report and bring the item back to the November OAP meeting.

Advisory Committee – October 21, 2021: Received and filed Watermaster Board – October 28, 2021: Received and filed

Agricultural Pool - November 10, 2021:

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2021 through August 31, 2021 is provided to keep all members apprised of the FY 2021/22 cumulative Watermaster revenues, expenditures and changes in net assets for the period listed.

DISCUSSION

The Combining Schedule of Revenue, Expenses and Changes in Net Assets has been created from various financial reports and statements created from Intuit QuickBooks Enterprise Solutions 21.0, the Watermaster accounting system. The Combining Schedule provided balances to the supporting documentation in the Watermaster accounting system as presented.

ATTACHMENTS:

1. Financial Report – B3

CHINO BASIN WATERMASTER COMBINING SCHEDULE OF REVENUE, EXPENSES AND CHANGES IN NET ASSETS FOR THE PERIOD JULY 1, 2021 THROUGH AUGUST 31, 2021

		OPTIMUM	I POOL ADMINISTRA	ATION & SPECIAL	LPKOJECISI		l I	I	GASB 75		AMENDED
	WATERMASTER	BASIN	APPROPRIATIVE	AG	NON-AG	AP ESCROW	GROUNDWATER	LAIF	BEG. NET	GRAND	BUDGET
	ADMINISTRATION	MANAGEMENT	POOL	POOL	POOL	ACCOUNT	REPLENISHMENT	VALUE ADJ.	POSITION	TOTALS	2021-2022
Administrative Revenues:											
Administrative Assessments			-		-					-	7,424,877
Interest Revenue	177,430		-	-	-					477 420	106,125 177,430
Mutual Agency Project Revenue Miscellaneous Income	177,430									177,430 6	177,430
Total Revenues	177,436	-		-	_		_	-	-	177,436	7,708,432
	,									,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Administrative & Project Expenditures:											
Watermaster Administration	377,090									377,090	1,846,194
Watermaster Board-Advisory Committee Ag Pool Legal Services - Ag Fund ¹	25,246			37,663						25,246 37,663	245,485
Pool Administration			37,243	8,151	7,189					52,583	411,698
Optimum Basin Mgmt Administration		167,588	01,240	0,101	7,103					167,588	1,480,696
OBMP Project Costs		372,134								372,134	4,445,867
Debt Service		529,029								529,029	529,029
Basin Recharge Improvements		-								-	1,693,292
Total Administrative/OBMP Expenses	402,336	1,068,751	37,243	8,151	7,189	-	=	-	-	1,561,333	10,652,261
Net Administrative/OBMP Expenses	(224,899)	(1,068,751)		=. =	0.400						
Allocate Net Admin Expenses To Pools	224,899		164,919	51,518	8,463					-	
Allocate Net OBMP Expenses To Pools		539,722	395,778	123,634	20,310					-	
Allocate Debt Service to App Pool		529,029	529,029							-	
Allocate Basin Recharge to App Pool	=	-	=	(400,000)						-	
Agricultural Expense Transfer* Total Expenses			183,303 1,310,272	(183,303) 37,663	35,962					1,561,333	10,652,261
Net Administrative Income			(1,310,272)	(37,663)	(35,962)					(1,383,896)	(2,943,829)
			(1,010,212)	(57,000)	(55,562)				-	(1,000,000)	(2,545,025)
Other Income/(Expense)											
Replenishment Water Assessments							-			-	0
Desalter Replenishment Obligation Exhibit "G" Non-Ag Pool Water							-			-	0
RTS Charges from IEUA			_				-			- -	0
Interest Revenue			-	_	_		-			-	0
MWD Water Purchases										-	0
Non-Ag Stored Water Purchases										-	0
Exhibit "G" Non-Ag Pool Water			-							-	0
Groundwater Replenishment							-			-	0
LAIF - Fair Market Value Adjustment								-		-	0
Gain on Sale of Assets Other Post-Employment Benefits (OPEB)			-		-			-		-	0
Prior Year Adjustment - Ag Pool Expense			-	_	-				-	-	0
AP Special Assessment - Ag Pool Exp.			_	_		_				_	0
AP Escrow Account - Interest Earned						49				49	0
Refund-Basin O&M Expenses			-		-					-	0
Refund-Recharge Debt Service			-							-	0
Funding To/(From) Reserves										-	0
Net Other Income/(Expense)			-	-	-	49	-	-	-	49	0
Net Transfers To/(From) Reserves		(1,383,847)	(1,310,272)	(37,663)	(35,962)	49	-	-	-	(1,383,847)	(2,943,829)
N . A		0	0.610.70	10	464.55=	404.00=	(10.0==)		/446 ::=:	0.00= =0=	
Net Assets, July 1, 2021			8,846,588 7,536,316	127,547 89,884	131,995	161,296	(19,272)	829 829	(443,445) (443,445)	8,805,539 7,421,692	7 424 602
Net Assets, End of Period			1,030,316	09,004	96,033	161,345	(19,272)	629	(443,445)	1,421,092	7,421,692
19/20 Assessable Production 19/20 Production Percentages			69,918.990 73.330%	21,841.407 22.907%	3,588.067 3.763%					95,348.464 100.000%	

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

Note ¹- Agricultural Pool Legal Services for Jul. 2021 through Aug. 2021



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: Agricultural Pool Members

SUBJECT: Treasurer's Report of Financial Affairs for the Period August 1, 2021 through August

31, 2021 - Financial Report B4 (August 31, 2021) (Business Item II.F.4.)

SUMMARY

<u>Issue</u>: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of August 1, 2021 through August 31, 2021.

<u>Recommendation</u>: Receive and file Treasurer's Report of Financial Affairs for the Period August 1, 2021 through August 31, 2021 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster Budget.

Future Consideration

Agricultural Pool – November 10, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool – October 14, 2021: Received and filed

Non-Agricultural Pool - October 14, 2021: Moved unanimously to receive and file, without approval

Agricultural Pool – October 14, 2021: Pulled from Consent to allow the Watermaster CFO (who was absent) to answer Mr. Raughley's questions regarding certain balances within the B-5 report and bring the item back to the November OAP meeting.

Advisory Committee – October 21, 2021: Received and filed Watermaster Board – October 28, 2021: Received and filed

Agricultural Pool - November 10, 2021:

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period August 1, 2021 through August 31, 2021 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CalTRUST); cash on deposit in trust with the County of San Bernardino as a result of the Cooperation and Reimbursement Agreement between Chino Basin Watermaster and County of San Bernardino dated May 25, 2017; and cash on hand at the Watermaster office (petty cash) at the end of the period stated. The Treasurer's Report details the change (increase or decrease) in the overall cash position of Watermaster, as well as the changes (increase or decrease) to the assets and liabilities section of the balance sheet. The report also provides a detailed listing of all deposits and/or withdrawals in the California State Treasurer's Local Agency Investment Fund (LAIF) and/or CalTRUST, the most current effective yield as of the last quarter, and the ending balance in LAIF as of the reporting date.

DISCUSSION

The Treasurer's Report of Financial Affairs has been created from various financial reports and statements created from Intuit QuickBooks Enterprise Solutions 21.0, the Watermaster accounting system. The Treasurer's Report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

ATTACHMENTS

1. Financial Report - B4

CHINO BASIN WATERMASTER TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD AUGUST 1, 2021 THROUGH AUGUST 31, 2021

	DEPOSITORIES: Cash on Hand - Petty Cash Bank of America Governmental Checking-Demand Deposits Zero Balance Account - Payroll Restricted Funds - AP Escrow Trust Account - County of San Bernardino Local Agency Investment Fund - Sacramento		\$ 431,501 -	\$	500 431,501 161,345 845 8,720,898
	TOTAL CASH IN BANKS AND ON HAND TOTAL CASH IN BANKS AND ON HAND	8/31/2021 7/31/2021		\$	9,315,090 9,534,415
	PERIOD INCREASE (DECREASE)			\$	(219,325)
CHANGE IN CASH POSITION DUE TO:					
Decrease/(Increase) in Assets:	Assessments Receivable			\$	146,341 -
(Degrages)/Ingresses in Lightilities	Prepaid Expenses, Deposits & Other Current Assets				(34,057)
(Decrease)/Increase in Liabilities	Accounts Payable Accrued Payroll, Payroll Taxes & Other Current Liabilities				198,292 12,088
	Long Term Liabilities				2,455
	Transfer to/(from) Reserves				(544,444)
	PERIOD INCREASE (DECREASE)			<u>\$</u>	(219,325)

		Petty Cash	G	ovt'l Checking Demand	Z(ero Balance Account Payroll		Funds AP Escrow		County of Bernardino		nvestment Funds		Totals
SUMMARY OF FINANCIAL TRANSACTIONS:	Φ.	500	Φ.	00.054	Φ		Φ.	404.004	Φ	0.45	Φ.	0.070.000	Φ.	0.504.445
Balances as of 7/31/2021 Deposits	Ъ	500	Þ	92,851 744,669	Ъ	-	\$	161,321 25	\$	845	\$	9,278,898	Þ	9,534,415 744,694
Transfers		-		(152,184)		(95,852)		-		-		(558,000)		(806,036)
Withdrawals/Checks		-		(253,835)		95,852		-		-		-		(157,983)
Balances as of 8/31/2021	\$	500	\$	431,501	\$	-	\$	161,345	\$	845	\$	8,720,898	\$	9,315,090
PERIOD INCREASE OR (DECREASE)	\$	-	\$	338,650	\$		\$	25	\$	-	\$	(558,000)	\$	(219,325)

CHINO BASIN WATERMASTER TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD AUGUST 1, 2021 THROUGH AUGUST 31, 2021

INVESTMENT TRANSACTIONS

	Effective Date 8/5/2021	Transaction Withdrawal	Depository	Activity (558,000)	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
Т	OTAL INVEST	MENT TRANSAC	CTIONS	\$ (558,000)	\$0			

^{*} The earnings rate for L.A.I.F. is a daily variable rate; 0.33% was the effective yield rate at the Quarter ended June 30, 2021.

INVESTMENT STATUS August 31, 2021

	Principal	Number of	Interest	Maturity
Financial Institution	Amount	Days	Rate	Date
Local Agency Investment Fund	\$ 8,720,898	-		
TOTAL INVESTMENTS	\$ 8,720,898			

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

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

Respectfully submitted,

Joseph S. Joswiak Chief Financial Officer

Chino Basin Watermaster

N:\Administration\Meetings - Agendas & Minutes\2021\Staff Reports\11 - November\Pools\[20211110 - II.E.4 Treasurers Report_August 2021.xlsx]Aug 2021

Page 305 Page 2 of 2



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE: November 10, 2021

TO: Agricultural Pool Members

SUBJECT: Budget vs. Actual Report for the Period July 1, 2021 through August 31, 2021 -

Financial Report B5 (August 31, 2021) (Business Item II.F.5.)

SUMMARY

<u>Issue</u>: Record of revenues and expenses of Watermaster for the Period of July 1, 2021 through August 31, 2021.

<u>Recommendation</u>: Receive and file Budget vs. Actual Report for the Period July 1, 2021 through August 31, 2021 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2021/22 "Amended" Watermaster Budget.

Future Consideration

Agricultural Pool - November 10, 2021: Receive and File [Normal Course of Business]

ACTIONS:

Appropriative Pool - October 14, 2021: Received and filed

Non-Agricultural Pool - October 14, 2021: Moved unanimously to receive and file, without approval

Agricultural Pool – October 14, 2021: Pulled from Consent to allow the Watermaster CFO (who was absent) to answer Mr. Raughley's questions regarding certain balances within the B-5 report and bring the item back to the November OAP meeting.

Advisory Committee – October 21, 2021: Received and filed Watermaster Board – October 28, 2021: Received and filed

Agricultural Pool - November 10, 2021:

BACKGROUND

A Budget vs. Actual Report for the period July 1, 2021 through August 31, 2021 is provided to keep all members apprised of the total revenues and expenses for the current fiscal year. The expense section is categorized into four distinct sections. Those sections are: General and Administrative Expenses; Optimum Basin Management Program Expenses; Project Expenses; and Other Income/Expenses. The Budget vs. Actual report has been created from Intuit QuickBooks Enterprise Solutions 21.0, the Watermaster accounting system. The Budget vs. Actual report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

DISCUSSION

CURRENT MONTH - AUGUST 2021

Year-To-Date (YTD) for the two months ending August 31, 2021, all but one category was above the projected budget.

Watermaster Legal Services (6070s) were over budget by \$7,943 or 14.4% as a result of increased activities in the areas of Rules and Regulations; the unbudgeted expenses for the Ely 3 Basin Investigation; and miscellaneous legal expenses during the last two months. Please note that the overage is only in the administrative section, not the entire consolidated BHFS budget.

Overall, the Watermaster (YTD) Actual Expenses were \$3,334,075 or 68.1% below the (YTD) Budgeted Expenses of \$4,895,408.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

The "Original" Approved budget for FY 2021/22 of \$7,276,213 was adopted by the Watermaster Board on May 27, 2021. Budget Amendment A-21-07-01 in the amount of \$147,031 and Budget Amendment A-21-07-02 in the amount of \$276,761 was adopted by the Watermaster Board on July 22, 2021. Budget Amendment A-21-08-01 in the amount of \$8,427 was approved by the Advisory Committee on August 19, 2021. The accounts increased with the Budget Amendments were the OBMP-Northwest MZ-1 Area Project (7402.1) increased by \$147,031; and the Safe Yield Reset Methodology Evaluation (7614) increased by \$285,188.

During the month of July 2021, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$2,943,828.87 has been posted to the general ledger accounts. The total amount of \$2,943,828.87 consisted of \$1,693,292.20 from Capital Improvement Projects, \$573,765.00 from Engineering Services, \$374,114.56 from OBMP Activities, \$207,566.95 from Pool Funding Accounts, and \$95,090.16 from Administration Services. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

The "Amended" Budget for FY 2021/22 is \$10,652,260.87 which includes \$2,943,828.87 for the prior years "Carry Over" funding.

SALARIES EXPENSE

CURRENT MONTH - AUGUST 2021

As of August 31, 2021, the total (YTD) Watermaster salary expenses were \$32,436 or 7.9% below the (YTD) budgeted amount of \$411,287. The overall staffing budget was developed with a staffing level of ten Full-Time Equivalents (FTE's), and staffing is currently at ten Full-Time Equivalents (FTE's).

Watermaster utilizes an in-house database time and attendance system to track and record staff's actual hours worked and records those hours to a specific project or activity. This time and attendance database of captured staff hours and activities is the basis for the bi-weekly payrolls which are processed using an external payroll processing service. Watermaster staff can record time to a large number of activities but the five most used categories are as follows (1) General Administrative activities; (2) Paid Leaves of vacation, sick or holiday; (3) Pools, Advisory or Board Meeting attendance; (4) OBMP activities; and (5) OBMP Implementation Program Elements 1 through 9 activities.

When the FY 2021/22 budget was developed, basic assumptions were used in allocating how staff's time would be spent and on which of the projects or activities. The staffing dollars were then allocated into those specific areas and budgeted on a 1/12 monthly budget. When actual staffing activities vary from the budgeted assumptions, a positive or negative variance can be created.

Currently the following actual allocations are tracking above the projected allocations due to Watermaster staff spending more time in these activities as follows: WM Staff Salaries for Administration (account 6011) above budget by \$26,394 or 13.5%; Watermaster Staff Overtime (account 6011.1) above budget by \$2,217 or 110.8%; and PE 6&7 (account 7501) above budget by \$2,352 or 206.9%.

The table summarizes the Year-To-Date (YTD) Actual Watermaster salary costs compared to the Year-To-Date (YTD) Budget as of August 31, 2021. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '21 - Aug '21	Jul '21 - Aug '21			FY 2021/22
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
WM Salary Expense					
6011 · WM Staff Salaries	221,702.21	195,308.00	26,394.21	113.51%	1,128,445.00
6011.1 · WM Staff Salaries - Overtime	4,216.77	2,000.00	2,216.77	210.84%	12,000.00
6011.4 · 457(f) NQDC Plan	4,902.29	5,885.00	-982.71	83.3%	35,312.00
6017- Temporary Services	7,517.52	27,000.00	-19,482.48	27.84%	42,000.00
6201 · Advisory Committee - WM Staff Salaries	5,125.33	5,303.00	-177.67	96.65%	30,636.00
6301 · Watermaster Board - WM Staff Salaries	4,692.22	8,439.00	-3,746.78	55.6%	48,754.00
8301 · Appropriative Pool - WM Staff Salaries	6,469.08	7,817.00	-1,347.92	82.76%	45,164.00
8401 · Agricultural Pool - WM Staff Salaries	3,206.30	6,657.00	-3,450.70	48.16%	38,461.00
8501 · Non-Agricultural Pool - WM Staff Salaries	2,357.80	4,603.00	-2,245.20	51.22%	26,596.00
6901 · OBMP - WM Staff Salaries	34,852.18	38,454.00	-3,601.82	90.63%	222,176.00
7101.1 · Production Monitor - WM Staff Salaries	8,570.98	17,647.00	-9,076.02	48.57%	101,960.00
7102.1 · In-line Meter - WM Staff Salaries	0.00	2,106.00	-2,106.00	0.0%	12,167.00
7103.1 · Grdwater Quality - WM Staff Salaries	11,718.77	11,809.00	-90.23	99.24%	68,225.00
7104.1 · Grdwater Level - WM Staff Salaries	11,477.41	12,325.00	-847.59	93.12%	71,210.00
7107.1 · GrdLevel Monitoring - WM Staff Salaries	0.00	1,269.00	-1,269.00	0.0%	7,332.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	809.00	-809.00	0.0%	4,671.00
7108.11 · Prado Basin - WM Staff Salaries	719.88	1,204.00	-484.12	59.79%	6,954.00
7201 · Comp Recharge - WM Staff Salaries	9,540.97	9,700.00	-159.03	98.36%	56,041.00
7301 · PE3&5 - WM Staff Salaries	0.00	3,204.00	-3,204.00	0.0%	18,509.00
7401 · PE4 - WM Staff Salaries	0.00	1,956.00	-1,956.00	0.0%	11,306.00
7501 · PE6&7 - WM Staff Salaries	3,489.19	1,137.00	2,352.19	306.88%	6,575.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	1,124.00	-1,124.00	0.0%	6,493.00
7601 · PE8&9 - WM Staff Salaries	786.29	4,276.00	-3,489.71	18.39%	24,705.00
Subtotal WM Staff Costs	341,345.19	370,032.00	-28,686.81	92.25%	2,025,692.00
60185 · Vacation	28,483.78	25,655.00	2,828.78	111.03%	93,925.00
60186 · Sick Leave	4,402.78	10,400.00	-5,997.22	42.33%	62,400.00
60187 · Holidays	4,618.84	5,200.00	-581.16	88.82%	78,002.00
Subtotal WM Paid Leaves	37,505.40	41,255.00	-3,749.60	90.91%	234,327.00
Total WM Salary Costs	378,850.59	411,287.00	-32,436.41	92.11%	2,260,019.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

For FY 2021/22 the amount of \$21,000 was "Carried-Over" from the previous fiscal year's budget under the category of Temporary Services (6017). This expense is currently being used to fund one temporary employee who is scanning documents into the SharePoint system for the ongoing records management project.

LEGAL SERVICES
BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

CURRENT MONTH - AUGUST 2021

As of August 31, 2021, the total (YTD) Watermaster Legal Services expenses (consolidating the three categories of Watermaster Administrative Legal Services, Pool/Advisory/Board Meeting legal expenses, and OBMP legal expenses) were \$76,367 or 73.6% below the (YTD) budgeted amount of \$163,776.

The Watermaster Legal Services budget was developed jointly by the Watermaster staff and Brownstein Hyatt Farber Schreck staff with specific assumptions regarding the tasks and legal activities that would occur during FY 2021/22. The total legal services budget was developed by multiplying the number of hours that would be required to complete the specific tasks by the hourly rate. The "Approved" budget was adopted for the original amount of \$972,845.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070s) as of August 31, 2021 was \$7,943 or 14.4% above the budgeted amount of \$55,341. The specific items within the Administrative Legal Services expenses (6070s) which were over budget were the Rules & Regulations expenses (6072) over budget by \$2,088 or 105.2%; Miscellaneous (6078) which were over budget by \$11,556 or 32.7%; and the Ely Basin Investigation (6078.25) which were over budget by \$3,102 or 100%. Please see Note 1 on the following page for a more detailed explanation of the miscellaneous types of expenses (6078).

The specific items within the Administrative Legal Services expenses (6070s) which were under budget were the expenses for Court Coordination (6071) under budget by \$1,235 or 18.1%; Personnel Matters (6073) which were under budget by \$248 or 9.9%; Interagency Issues (6074) under budget by \$6,600 or 100.0%; and Party Status Maintenance expenses (6077) under budget by \$720 or 34.5%.

WATERMASTER POOLS, ADVISORY AND BOARD LEGAL SERVICES:

The Pools, Advisory Committee and the Board meeting legal expenses from BHFS are captured by month within the accounts (6275, 6375, 6375.1, 8375, 8475 and 8575). The legal service costs associated with the Board Workshop(s) are also included as part of this group. Overall, this category of legal expenses as of August 31, 2021 was \$22,014 or 63.0% below the budgeted amount of \$34,940. Normal Brownstein Hyatt Farber Schreck meeting attendance during any given month includes attendance at all three pool meetings, one Advisory Committee meeting and one Board meeting.

There were no meetings held during the month of August 2021. The legal services budget was developed with the assumption of having eleven months of meetings, intentionally excluding the month of December 2021.

OBMP LEGAL SERVICES:

The OBMP legal expenses (accounts 6907.31 through 6907.90) were below the budget for the month. As of August 31, 2021, the category of OBMP legal expenses were \$62,295 or 84.8% below the budgeted amount of \$73,495. The majority of expenses within this OBMP category were under budget (YTD), however, the 2020 Safe Yield Reset expenses (6907.47) were over budget by \$1,939 or 28.9%.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of August 31, 2021 compared to the Year-To-Date (YTD) budget. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month

Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '21 - Aug '21 Actual	Jul '21 - Aug '21 Budget	\$ Over Budget	% of Budget	FY 2021/22 Annual Budget
6070 · Watermaster Legal Services					•
6071 ⋅ BHFS Legal - Court Coordination	5,604.75	6,840.00	-1,235.25	81.94%	41,050.00
6072 · BHFS Legal - Rules & Regulations	4,072.50	1,985.00	2,087.50	205.16%	11,925.00
6073 · BHFS Legal - Personnel Matters	2,252.25	2,500.00	-247.75	90.09%	9,900.00
6074 · BHFS Legal - Interagency Issues	0.00	6,600.00	-6,600.00	0.0%	39,600.00
6076 · BHFS Legal - Storage Issues	0.00	0.00	0.00	0.0%	0.00
6077 · BHFS Legal - Party Status Maintenance	1,363.50	2,083.00	-719.50	65.46%	12,500.00
6078 · BHFS Legal - Miscellaneous (Note 1)	46,888.65	35,333.00	11,555.65	132.71%	212,000.00
6078.25 · BHFS - Ely # Basin Investigation	3,102.36	0.00	3,102.36	100.0%	0.00
Total 6070 · Watermaster Legal Services	63,284.01	55,341.00	7,943.01	114.35%	326,975.00
6275 · BHFS Legal - Advisory Committee	1,633.50	4,400.00	-2,766.50	37.13%	24,200.00
6375 ⋅ BHFS Legal - Board Meeting	8,506.80	14,040.00	-5,533.20	60.59%	77,220.00
6375.1 ⋅ BHFS Legal - Board Workshop(s)	0.00	0.00	0.00	0.0%	12,725.00
8375 · BHFS Legal - Appropriative Pool	895.50	5,500.00	-4,604.50	16.28%	30,250.00
8475 · BHFS Legal - Agricultural Pool	945.00	5,500.00	-4,555.00	17.18%	30,250.00
8575 · BHFS Legal - Non-Ag Pool	945.00	5,500.00	-4,555.00	17.18%	30,250.00
Total BHFS Legal Services	12,925.80	34,940.00	-22,014.20	36.99%	204,895.00
6907.3 ⋅ WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	1,830.00	-1,830.00	0.0%	10,975.00
6907.32 · Chino Airport Plume	0.00	1,830.00	-1,830.00	0.0%	10,975.00
6907.33 · Desalter/Hydraulic Control	0.00	5,617.00	-5,617.00	0.0%	33,700.00
6907.34 · Santa Ana River Water Rights	0.00	3,125.00	-3,125.00	0.0%	18,750.00
6907.36 · Santa Ana River Habitat	1,980.00	4,559.00	-2,579.00	43.43%	27,350.00
6907.38 ⋅ Reg. Water Quality Cntrl Board	0.00	8,141.00	-8,141.00	0.0%	48,850.00
6907.39 ⋅ Recharge Master Plan	580.50	2,083.00	-1,502.50	27.87%	12,500.00
6907.40 · Storage Agreements	0.00	8,591.00	-8,591.00	0.0%	51,550.00
6907.41 · Prado Basin Habitat Sustainability	0.00	2,083.00	-2,083.00	0.0%	12,500.00
6907.42 · Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6907.44 · SGMA Compliance	0.00	1,500.00	-1,500.00	0.0% #	9,000.00
6907.45 · OBMP Update	0.00	13,650.00	-13,650.00	0.0% #	81,900.00
6907.46 · Upper SAR Integrated Model	0.00	0.00	0.00	0.0% #	0.00
6907.47 · 2020 Safe Yield Reset	8,639.10	6,700.00	1,939.10	128.94% #	40,200.00
6907.48 ⋅ Ely Basin Investigation	0.00	8,141.00	-8,141.00	0.0% #	48,850.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	5,645.00	-5,645.00	0.0%	33,875.00
Total 6907 ⋅ WM Legal Counsel	11,199.60	73,495.00	-62,295.40	15.24%	440,975.00
Total Brownstein, Hyatt, Farber, Schreck Costs	87,409.41	163,776.00	-76,366.59	53.37%	972,845.00

Note 1: The types of legal activities that have been charged against the "Miscellaneous" legal category account 6078 are as follows: (1) Correspondence and discussions with Watermaster staff regarding current issues/topics; (2) Correspondence with Watermaster staff regarding special projects (assessment package, replenishment obligations, annual report, audit report, business plan, etc.); (3) Brownstein's status review of ongoing Watermaster projects and issues; (4) Brownstein's update of the outstanding issues list; (5) Coordination of ongoing Watermaster projects; (6) Review of draft documents and contracts; (7) Review transfer documents; (8) Ground-Level Monitoring Committee reports/meetings; (9) Review process and criteria for SGMA reporting; (10) MVWD SCADA Agreement and installation; (11) Angelica Corporation Bankruptcy matter; (12) NRG/GENON Bankruptcy matter; (13) Pomona extensometer project, CEQA review and compliance; (14) Desalter Replenishment obligations, assessment methodologies, and ongoing issues; (15) Master Cost Sharing Agreement with IEUA; (16) Estimation and adoption of an evaporative loss policy for Recharge; (17) CalMat intervention; (18) Angelica's water rights transfer; (19) Exhibit "G" rate issues; (20) Right of Entry Agreements for various locations; (21) Assessment Packages-Updates and Review; (22) Ag Pool Contest; (23) Payment of Ag Legal Fees; (24) Ag Invoices; and (25) Miscellaneous legal research on current and pending issues.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

OBMP ENGINEERING SERVICES AND LEGAL COSTS

CURRENT MONTH - AUGUST 2021

Reviewing in total the OBMP Engineering Services and Legal Costs (consolidating the five categories of OBMP Watermaster Staff and SAWPA, OBMP Engineering Services, OBMP Legal Costs, OBMP Update Costs, and OBMP Other Expenses) for the two months ending August 31, 2021, the actual expenses of \$157,094 were below the budgeted amount of \$266,741 by \$109,646 or 41.1%. For a detailed discussion, the following is provided.

For August 31, 2021, the accounts 6901-6903 (Optimum Basin Mgmt. Program) section was above the Year-To-Date (YTD) budget by \$1,524 or 2.8%. Watermaster utilizes an in-house database time and attendance system to record and document staff's actual hours worked and also allocates those hours to a specific project or activity. Watermaster staff time could be charged to Administrative, OBMP, or Implementation Project categories. Recently, Watermaster staff spent less time on specific OBMP related areas as budgeted. As a result, Watermaster staff allocated less actual time to the OBMP project as budgeted, which resulted in an under-budget variance of \$3,602 or 9.4%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2020/21 Basin Monitoring Program Task Force Contribution which was budgeted at \$15,032 and actual expenses were \$20,158 or \$5,126 or 34.1% above budget as of August 31, 2021.

For August 31, 2021, the accounts 6906 (Optimum Basin Mgmt. Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$30,400 or 25.1%. The majority of expenses within this OBMP category were under budget (YTD), however, the accounts over budget were the OBMP-Watermaster Model Update (6906.1) which were over budget by \$1,485 or 14.8%; Water Rights Compliance Reporting expenses (6906.22) which were over budget by \$7,755 or 258.8%; OBMP-Other General Meetings expenses (6906.32) which were over budget by \$6,530 or 50.8%; and the OBMP-Engineering Services-Other expenses (6906) which were over budget by \$1,102 or 15.8%. Within the 6906 categories, two accounts had funding "Carried-Over" from the previous fiscal year. The OBMP-Watermaster Model Update expenses (6906.1) had \$9,000 brought forward from the previous year and the Integrated Model Meetings-IEUA Costs expenses (6906.15) had \$14,594 brought forward from the previous year. These two amounts are included in the FY 2021/22 budget.

Within the category 6907 (Optimum Basin Mgmt. Program Legal Fees) are the remaining Brownstein Hyatt Farber Schreck (BHFS) Watermaster's legal expenses. Within the legal expense category, some individual line item activities were above the budget by \$1,939 while some other line item activities were below the budget by \$64,234. Above the budget line item were the 2020 Safe Yield Reset expenses (6907.47) over budget by \$1,939 or 289.4%. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$1,830; the Chino Airport Plume of \$1,830; the Desalter/Hydraulic Control of \$5,617; Santa Ana River Habitat of \$3,125; the Santa Ana River Habitat of \$2,579; the Regional Water Quality Control Board of \$8,141; the Recharge Master Plan expenses of \$1,502; Storage Agreements of \$8,591; the Prado Basin Habitat Sustainability of \$2,083; SGMA Compliance of \$1,500; the OBMP Update of \$13,650; the Ely Basin Investigation expenses of \$8,141; and the WM Unanticipated legal expenses of \$5,645. For the two months ended August 31, 2021, the overall cumulative (YTD) budget was \$73,495 and the actual (BHFS) legal expenses totaled \$11,200 which resulted in an under-budget variance of \$62,295 or 84.8%.

The OBMP Update Costs (6908.1) were below the budget for the month. These expenses relate to the OBMP Update costs for the contract between Tom Dodson and Associates and CBWM to procure environmental review services for the 2020 OBMP Update. The contract had a remaining amount available of \$17,065 as of the year-ended June 30, 2021 and that amount was "Carried-Over" into the FY 2021/22 budget. The budget has a remaining balance as of August 31, 2021 of \$17,065.

The OBMP Other Expenses (6909's) were below the budget for the month. These expenses are typically conference calls, meeting expenses, supplies, annual inspection fees, and other miscellaneous type expenses. As of August 31, 2021, this category of expenses was \$1,410 or 91.7% below the budgeted amount of \$1,537.

Overall, the Optimum Basin Management Program (OBMP) category was \$157,094 actual (YTD) compared to a budget (YTD) of \$266,741 for an under budget of \$109,646 or 41.1% as of August 31, 2021.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of August 31, 2021 compared to the Year-To-Date (YTD) budget. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '21 - Aug '21	Jul '21 - Aug '21			FY 2021/22
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6900 ⋅ Optimum Basin Mgmt Plan					
6901 ⋅ WM Staff Salaries	34,852.18	38,454.00	-3,601.82	90.63%	222,176.00
6903 · OBMP SAWPA Group	20,158.00	15,032.00	5,126.00	134.1%	15,032.00
Total 6901-6903 · OBMP WM Staff/SAWPA	55,010.18	53,486.00	1,524.18	102.85%	237,208.00
6906 · OBMP Engineering Services					
6906.1 · OBMP - Watermaster Model Update	11,506.75	10,022.00	1,484.75	114.82%	15,112.00
6906.15 · Integrated Model Mtgs IEUA Costs	8,085.37	19,804.00	-11,718.63	40.83%	45,874.00
6906.21 ⋅ State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	10,752.25	2,997.00	7,755.25	358.77%	17,984.00
6906.23 ⋅ SGMA Reporting Requirements	0.00	2,599.00	-2,599.00	0.0%	15,598.00
6906.24 · Compliance - SB88 and SWRCB	0.00	2,034.00	-2,034.00	0.0%	12,204.00
6906.26 · 2020 OBMP Update	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	6,597.00	18,000.00	-11,403.00	36.65%	108,000.00
6906.32 · OBMP - Other General Meetings	19,384.00	12,854.00	6,530.00	150.8%	77,134.00
6906.71 · OBMP - Data Requests - CBWM Staff	21,613.50	22,178.00	-564.50	97.46%	133,068.00
6906.72 · OBMP - Data Requests - Non CBWM	2,179.50	8,348.00	-6,168.50	26.11%	50,088.00
6906.73 · OBMP - Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	156.00	12,899.00	-12,743.00	1.21%	77,398.00
6906.81 · Prepare Annual Reports	2,396.00	2,437.00	-41.00	98.32%	14,626.00
6906 · OBMP Engineering Services - Other	8,087.50	6,986.00	1,101.50	115.77%	41,896.00
Total 6906 · OBMP Engineering Services	90,757.87	121,158.00	-30,400.13	74.91%	608,982.00
6907 · OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	1,830.00	-1,830.00	0.0%	10,975.00
6907.32 · Chino Airport Plume	0.00	1,830.00	-1,830.00	0.0%	10,975.00
6907.33 · Desalter/Hydraulic Control	0.00	5,617.00	-5,617.00	0.0%	33,700.00
6907.34 · Santa Ana River Water Rights	0.00	3,125.00	-3,125.00	0.0%	18,750.00
6907.36 ⋅ Santa Ana River Habitat	1,980.00	4,559.00	-2,579.00	43.43%	27,350.00
6907.38 ⋅ Reg. Water Quality Cntrl Board	0.00	8,141.00	-8,141.00	0.0%	48,850.00
6907.39 ⋅ Recharge Master Plan	580.50	2,083.00	-1,502.50	27.87%	12,500.00
6907.40 · Storage Agreements	0.00	8,591.00	-8,591.00	0.0%	51,550.00
6907.41 · Prado Basin Habitat Sustainability	0.00	2,083.00	-2,083.00	0.0%	12,500.00
6907.44 · SGMA Compliance	0.00	1,500.00	-1,500.00	0.0%	9,000.00
6907.45 · OBMP Update	0.00	13,650.00	-13,650.00	0.0%	81,900.00
6907.46 · Upper SAR Integrated Model	0.00	0.00	0.00	0.0%	0.00
6907.47 · 2020 Safe Yield Reset	8,639.10	6,700.00	1,939.10	128.94%	40,200.00
6907.48 · Ely Basin Investigation	0.00	8,141.00	-8,141.00	0.0%	48,850.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	5,645.00	-5,645.00	0.0%	33,875.00
Total 6907 · WM Legal Counsel	11,199.60	73,495.00	-62,295.40	15.24%	440,975.00
Total 6907 ⋅ OBMP Legal Fees	11,199.60	73,495.00	-62,295.40	15.24%	440,975.00
6908 · OBMP Updates	,	,	,		,
6908.1 · 2020 OBMP Update-Dodson & Assoc.	0.00	17,064.56	-17,064.56	0.0%	17,064.56
Total 6908 · OBMP Updates	0.00	17,064.56	-17,064.56	0.0%	17,064.56
6909 · OBMP Other Expenses	0.00	17,004.00	17,004.00	0.070	17,004.00
6909.1 · OBMP Meetings	126.81	250.00	-123.19	50.72%	1,500.00
6909.3 · Other OBMP Expenses	0.00	454.00	-454.00	0.0%	2,724.00
6909.6 · OBMP Expenses - Miscellaneous	0.00	833.00	-833.00	0.0%	5,000.00
6909 · OBMP Other Expenses - Other	0.00	0.00	0.00	0.0%	0.00
Total 6909 · OBMP Other Expenses	126.81	1,537.00	-1,410.19	8.25%	9,224.00
. C.a. 0000 - Obini Othor Expenses	120.01	1,557.00	1,710.19	0.2070	5,227.00
Total 6900 · Optimum Basin Mgmt Plan	157,094.46	266,740.56	-109,646.10	58.89%	1,313,453.56

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

ENGINEERING SERVICES - OBMP IMPLEMENTATION PROJECTS COSTS WEST YOST ASSOCIATES (formerly Wildermuth Environmental, Inc.)

CURRENT MONTH - AUGUST 2021

As of August 31, 2021, the total (YTD) Engineering Services expenses were \$595,079 or 60.7% below the (YTD) budget amount of \$979,745. The OBMP Implementation Projects (consolidated accounts 7100s – 7700s) were all under budget of as of August 31, 2021 except for the Groundwater Quality-Engineering Services expenses (7103.3) which were over budget by \$757 or 1.2%; the Groundwater Level-Engineering expenses (7107.2) which were over budget by \$1,501 or 13.7%; the Hydraulic Control-Lab Services expenses (7108.4) which were over budget by \$440 or 100%; and the PE4-Engineering expenses (7402) which were over budget by \$3,086 or 13.2%.

West Yost Associates provides Watermaster a Progress and Estimated Cost at Completion (ECAC) report each quarter. The purpose of this (ECAC) report is to update Watermaster on whether or not the Engineering Services budget will be above or below budget at the end of the fiscal year. If the Engineering Services budget is expected to be above budget at fiscal year-end, a Budget Amendment or Budget Transfer Form would need to be approved to ensure funding. The first quarter ECAC report for the period July 1, 2021 through September 30, 2021 will be submitted in early November 2021.

The table listed below summarized the Year-To-Date (YTD) Actual West Yost Associates and other Engineering costs compared to the Year-To-Date (YTD) Budget as of August 31, 2021. Please be advised that the "\$ Over Budge" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '21 - Aug '21	Jul '21 - Aug '21			FY 2021/22
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6906 · OBMP Engineering Services - Other	8,087.50	6,986.00	1,101.50	115.77%	41,896.00
6906.1 · OBMP - Watermaster Model Update	11,506.75	10,022.00	1,484.75	114.82%	15,112.00
6906.15 · Integrated Model Mtgs-IEUA Cost	8,085.37	19,804.00	-11,718.63	40.83%	45,874.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	10,752.25	2,997.00	7,755.25	358.77%	17,984.00
6906.23 · SGMA Reporting Requirements	0.00	2,599.00	-2,599.00	0.0%	15,598.00
6906.24 · Compliance - SB88 and SWRCB	0.00	2,034.00	-2,034.00	0.0%	12,204.00
6906.26 · 2019 OBMP Update	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	6,597.00	18,000.00	-11,403.00	36.65%	108,000.00
6906.32 · OBMP - Other General Meetings	19,384.00	12,854.00	6,530.00	150.8%	77,135.00
6906.71 · OBMP - Data Requests - CBWM Staff	21,613.50	22,178.00	-564.50	97.46%	133,068.00
6906.72 · OBMP - Data Requests - Non CBWM	2,179.50	8,348.00	-6,168.50	26.11%	50,088.00
6906.73 · OBMP - Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6906.74 · OBMP - Mat'l Physical Injury Requests	156.00	12,899.00	-12,743.00	1.21%	77,398.00
6906.81 · Prepare Annual Reports	2,396.00	2,437.00	-41.00	98.32%	14,626.00
7103.3 · Grdwtr Qual-Engineering	62,106.27	61,349.00	757.27	101.23%	206,089.00
7103.5 · Grdwtr Qual-Lab Svcs	5,172.00	10,544.00	-5,372.00	49.05%	63,261.00
7104.3 · Grdwtr Level-Engineering	21,828.61	33,799.00	-11,970.39	64.58%	202,793.00
7104.8 · Grdwtr Level-Contracted Services	0.00	1,667.00	-1,667.00	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	0.00	1,333.00	-1,333.00	0.0%	8,000.00
7107.2 · Grd Level-Engineering	12,423.98	10,923.00	1,500.98	113.74%	65,542.00
7107.3 · Grd Level-SAR Imagery	79,817.50	99,167.00	-19,349.50	80.49%	170,000.00
7107.6 · Grd Level-Contract Svcs	0.00	14,375.00	-14,375.00	0.0%	86,254.00
7107.8 · Grd Level-Capital Equipment	0.00	5,825.00	-5,825.00	0.0%	16,086.00
7108.3 · Hydraulic Control-Engineering	0.00	0.00	0.00	0.0%	0.00
7108.31 · Hydraulic Control-PBHSP	0.00	11,209.00	-11,209.00	0.0%	67,254.00
7108.4 · Hydraulic Control-Lab Svcs	440.00	0.00	440.00	100.0%	0.00
7108.41 · Hydraulic Control-PBHSP	0.00	0.00	0.00	0.0%	0.00
7108.6 · Hydraulic Control-Outside Professionals	4,500.00	4,500.00	0.00	100.0%	4,500.00
7109.3 · Recharge & Well - Engineering	1,706.25	5,535.00	-3,828.75	0.0%	33,208.00
7110.3 · Ag Production & Estimation - Eng. Serv.	2,545.50	45,053.00	-42,507.50	0.0%	56,910.00
7111.3 · Data Collection & Mgmt Eng. Services	1,157.25	3,359.00	-2,201.75	0.0%	20,158.00
7202.2 · Comp Recharge-Engineering Services	16,784.25	129,127.00	-112,342.75	13.0%	174,764.00
7206.1 · SB88 Specs-Compliance-50% IEUA	681.62	54,694.00	-54,012.38	1.25%	54,694.00
7210 · OBMP - 2023 RMPU	0.00	37,732.00	-37,732.00	0.0%	37,732.00
7303 · PE3&5-Engineering - Other	712.00	3,714.00	-3,002.00	19.17%	22,284.00
7402 · PE4-Engineering	26,387.25	23,301.00	3,086.25	113.25%	139,806.00
7402.10 · PE4-MZ1 Pomona Project	19,929.75	113,601.00	-93,671.25	17.54%	236,127.00
7502 · PE6&7-Engineering	14,213.00	18,653.00	-4,440.00	76.2%	111,916.00
7510 · PE6&7-IEUA Salinity Mgmt. Plan	14,749.39	73,975.00	-59,225.61	19.94%	73,975.00
7511 · PE6&7-SAWBMP Task Force-50% IEUA	0.00	4,401.00	-4,401.00	0.0%	26,405.00
7602 · PE8&9-Engineering	0.00	0.00	0.00	0.0%	0.00
7610 · PE8&9-Support 2020 Mgmt. Plan	0.00	43,220.00	-43,220.00	0.0%	43,220.00
7614 · OBMP-Support Imp. Safe Yield Court Order	8,753.25	47,531.00	-38,777.75	18.42%	285,188.00
tal Engineering Services Costs	384,665.74	979,745.00	-595,079.26	39.26%	2,825,149.00

^{*} West Yost and Subcontractor Engineering Budget of \$2,251,384 plus Carryover Funds from FY 2020/21 of \$573,765.00 Carryover Funds from FY 2020/21 of \$573,765.00 = \$9,000 (6906.1); \$14,594 (6906.15); \$85,000 (7107.3); \$3,772 (7107.8); \$42,682 (7110.3); \$120,000 (7202.2); \$54,694 (7206.1); \$37,732 (7210); \$89,096 (7402.10); \$73,975 (7510); and \$43,220 (7610)

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

The "Original" Approved budget for FY 2021/22 for Engineering Services was \$1,819,165. Budget Amendment A-21-07-01 in the amount of \$147,031 and Budget Amendment A-21-07-02 in the amount of \$276,761 were adopted by the Watermaster Board on July 22, 2021. Budget Amendment A-21-08-01 in the amount of \$8,427 was approved by the Advisory Committee on August 19, 2021. The accounts increased with the Budget Amendments were the OBMP-Northwest MZ-1 Area Project (7402.1) increased by \$147,031 and the Safe Yield Reset Methodology Evaluation (7614) increased by \$285,188. The "Amended" Engineering Services Budget after inclusion of the Budget Amendments was \$2,251,384. The

Engineering Services budget was Amended with the addition of "Carry-Over" funding \$573,765 which brought the Amended Budget amount to \$2,825,149.

The explanations regarding the Carry-Over amount of \$573,765 from FY 2020/21 to the FY 2021/22 budget is provided as follows:

- 1. <u>Watermaster Model Update and Required Demonstrations (Account 6906.1): \$9,000.</u> The requested Carry-Over is necessary to finalize the report on Model Update and Required Demonstrations, which was scheduled for completion in FY 2020/21.
- 2. <u>IEUA Integrated Model Meetings and Technical Review (Account 6906.15): \$29,188 (Watermaster's portion is \$14,594)</u>. The requested Carry-Over is necessary because this effort was planned for completion in FY 2020/21but is now scheduled to be completed by December 2021.
- 3. <u>Ground Level SAR Imagery (Account 7107.3): \$85,000.</u> The requested Carry-Over is necessary for the purchase and processing of satellite data by a subconsultant to estimate vertical ground motion. The work was completed in FY 2020/21, but the invoice has not yet been received from the subcontractor.
- 4. <u>Ground Level Capital Equipment (Account 7107.8): \$3,772.</u> The requested Carry-Over is necessary for the of purchase materials and equipment for the PomonaExtensometer Facility. The work was started in FY 2020/21 but wasn't completed until August 2021.
- 5. <u>Agriculture Production and Estimation (Account 7110.3): \$42,682.</u> The requested Carry-Over is necessary to complete the Agriculture Production and Estimation work that was originally scheduled to be performed in FY 2019/20 and FY 2020/21 but was delayed to FY2021/22.
- 6. PE2: Engineering Services for Other Recharge Improvement Projects (Account 7202.2): \$120,000. The requested Carry-Over is necessary to finalize this work in FY 2021/22. The work includes conducting a life-cycle analysis at the San Sevaine 1 and Etiwanda Debris conservation berms, and finalizing a technical memorandum describing the analysis and conclusions. The scope and schedule for this work was fine-tuned with input from IEUA and Watermaster Staff in FY 2020/21. The work is to be completed in FY 2021/22.
- 7. 2023 RMPU Recharge Master Plan Scoping (Account 7210): \$37,732. The requested Carry-Over is necessary to complete the scope, budget and report outline the 2023 RMPU. In June, the Parties determined that they were not interested in pursuing capital improvement projects was part of the 2023 RMPU. A scope, budget and report outline the 2023 RMPU still needs to be developed based on the input from the Parties.
- 8. <u>Management Zone Strategies Northwest MZ-1 (Account 7402.10): \$89,096.</u> The requested Carry-Over is necessary because this is a multi-year project to develop a subsidence management plan for the Northwest MZ-1, and not all tasks planned/budgeted in FY 2020/21 were completed in FY 2020/21.
- 9. <u>IEUA Update Recycled Water Permit Salinity (Account 7510): \$189,341 (Watermaster's portion is \$73,975)</u>. The requested Carry-Over is necessary to complete the technical and regulatory compliance supportwork to update the Chino Basin Maximum Benefit Salt and Nutrient Management Plan. Thismultiyear project began FY 2017/18 and is scheduled to be completed by June 2022.
- 10. PE 8/9: Support Implementation of the 2020 Storage Management Plan (Account 7610): \$43,220. The requested Carry-Over is for as-requested technical support to Watermaster staff, updating the information required for a complete Storage and Recovery Program application, updating the Storage and Recovery Program application forms, and updating the process to evaluate an application. No implementation activities occurred in FY 2020/21. The entire budget is requested to be brought forward into FY 2021/22.

11. SB88 Specification to Ensure Compliance with Regulations (Account 7206.1) - GRCC and 50% IEUA Cost Share: \$54,694. The requested Carry-Over is necessary to (1) complete the technical memorandum evaluating the existing methodology to estimate stormwater diversions in the Chino Basin, and (2) provide as needed support to IEUA and Watermaster in implementing the recommendations describes in the technical memorandum. The administrative draft technical memorandum was completed in June 2021 and comments were received on August 11, 2021.

PRADO BASIN HABITAT SUSTAINABILITY PROGRAM

Ongoing Costs

Program costs that are ongoing (Ongoing Costs) will be cost-shared between Watermaster and IEUA, split on a 50/50 basis, subject to the following limitation: in each fiscal year, neither Watermaster nor IEUA shall be obligated to reimburse the other for Ongoing Costs that exceed the amount that the reimbursing party has budgeted for Ongoing Costs in that fiscal year, except as agreed upon by both parties in writing or as amended during the fiscal year. The first year expenses (FY 2016/17) to be cost shared were approximately \$300,000, with projected future years (FY 2017/18 and forward) estimated at approximately \$150,000. For the purposes of the agreement, Ongoing Costs are defined as the costs associated with the following Program activities:

- 1. A Riparian Habitat Monitoring Program, including, but not limited to, the following sub-tasks:
 - a. Design and implement a site–specific vegetation monitoring program with the United States Bureau of Reclamation (USBR) and Orange County Water District, pursuant to which USBR will perform site-specific vegetation surveys.
 - b. Manage and perform custom flight to collect a high resolution air photo of the Prado Basin Region.
 - c. Collect, check, and upload historical air photos and vegetation survey data in the Prado Basin region.
 - d. Collect, check, and upload historical Landsat data in the Prado Basin region.
- 2. A Climate Monitoring Program, including, but not limited to, the following sub-task:
 - a. Collect, check, and upload climatic data on an annual basis
- Preparation of the AMP Annual Report (Annual Report), including, but not limited to, the following subtasks:
 - a. Water level monitoring, vegetation survey, photo monitoring, landsat data, climate data and analysis of the components.
 - b. Analyze data and prepare an administrative draft of the Annual Report for Watermaster/IEUA.
 - c. Incorporate the Watermaster and IEUA comments and prepare a draft Annual Report for review by the PBHSC.
 - d. Meet with PBHSC to review draft Annual Report.
 - e. Incorporate PBHSC comments and finalize the Annual Report.
- 4. Annual license fees for monitoring wells.
- 5. Project management and administration activities associated with the Program undertaken by a Party's consultant, including, but not limited to, the following sub-tasks:
 - a. Ad-Hoc Meetings
 - b. Preparation of scope and budget for the Program
 - c. Project administration and financial reporting
- 6. Other costs required to fulfill the requirements of Peace II Subsequent EIR mitigation measure 4.4-3. Watermaster shall be responsible for the costs associated with the Groundwater Level Monitoring Program, Groundwater Quality Monitoring Program, and Surface Water Monitoring Program.

Watermaster and IEUA shall each have responsibility for its own administrative costs, excluding the tasks and expenses included under Set-Up Costs and Ongoing Costs. Watermaster and IEUA will meet to review the cost-sharing structure under this agreement and negotiate necessary adjustments in good faith on at least an annual basis.

The Peace II SEIR does not explicitly state a duration for the monitoring and mitigation program. It is logical to assume that the program will last until the drawdown impacts, if any, on the riparian habitat from Peace II activities are fully manifested and not predicated to worsen, and that mitigation measures, if any are required, are fully implemented. This is not a perpetual agreement. Upon termination of the monitoring and any necessary mitigation obligations, the parties may elect to terminate the cost share agreement.

	West Yost Associates	"10		50% Billing " FROM" IEUA	Costs For Watermaster		
Jul. 2021 - Aug. 2021	\$ -	\$	-	\$ -	\$	-	
Totals	\$ -	\$	-	\$ -	\$	-	
	 7108.31		7108.31	7108.31			
Maximum Costs	\$ 143,508.00	\$	71,754.00	\$ 71,754.00	\$	71,754.00	

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

OTHER INCOME AND EXPENSE

There were no other significant items to report within the category of Other Income and Expenses for the month ending August 31, 2021.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

Per section VI.D.3 of the Groundwater Storage Program Funding Agreement No. 49960 in the Chino Basin with The Metropolitan Water District of Southern California, the FY 2021/22 annual administrative fee invoice was issued on July 6, 2021 in the amount of \$177,430.03 under invoice number 2021-07-CUP. Payment in the amount of \$177,430.03 was received and deposited on August 10, 2021.

The FY 2021/22 annual debt service expense (account 7690.1) of \$529,029 was paid directly to IEUA on July 8, 2021.

POOL LEGAL SERVICES FUND ACCOUNTING

Each Pool has a Fund Account created to pay their own legal service invoices. The legal services invoices are funded and paid using the Fund accounts (8467 for the OAP, 8567 for the ONAP, and 8367 for the AP). These Fund Accounts are replenished at the direction of each Pool, and the legal service invoices are approved by the Pool leadership and when paid by Watermaster, are deducted from the existing Fund Account balances. If the Fund Account for any Pool reaches zero, no further payments can be paid from the Fund and a replenishment action must be initiated by the Pool.

Along with the legal services Fund account for the OAP (8467), the OAP also has two other Fund accounts for Ag Pool Meeting Attendance expenses (8470), and Special Projects expenses (8471). These Fund accounts are also shown in the charts listed below.

Normally, the Watermaster Admin Reserve would not be used to fund any of the Pool's legal services invoices. However, for the Agricultural Pool, the amount of \$102,557.12 was used from the Watermaster Admin Reserve to fund the shortfall created when the November 19, 2020 Assessment invoices totaling \$500,000 were not paid in full. In fact, \$115,263.88 was paid, leaving a balance due of \$384,736.12 (\$115,263.88 + \$384,736.12 = \$500,000) which still remains unpaid. Through November 2020, invoices totaling \$217,821.00 had been paid for the Agricultural Pool. Please note the invoices issued on November 19, 2020 were due on December 21, 2020. The available cash of \$115,263.88 and payments issued of \$217,821.00 left a Fund balance shortfall of \$102,557.12 which was temporarily funded through Admin Reserves (\$217,821.00 - \$115,263.88 = \$102,557.12). The Admin Reserve amount of \$102,557.12 will need to be refunded back to Watermaster.

Fund Balance for Agricultural Pool Account 8467 - Legal Services			Agricultural Pool Reserve Funds As shown the B-3 Financial Report		
Beginning Balance July 1, 2020:	_ \$	_	To show the D o Thinking Report		
Additions:	·		Agricultural Pool Reserve Funds Balance as of June 30, 2020:	\$	515,498.06
Assessment issued November 19, 2020 for \$500,000					
with outstanding balance of \$384,736.12	\$	115,263.88	Additions:		
Admin Reserve used to cover shortfall *	\$	102,557.12	AP payments w/o Escrow instructions (\$165,694.75 - \$161,070.09)	\$	4,624.66
Subtotal Additions:	\$	217,821.00	Y-T-D Interest earned on Ag Pool Funds FY 2020/21	\$	1,933.80
			Subtotal Additions:	\$	6,558.46
From Agricultural Pool Reserve Funds	\$	258,027.50			
Total Additions:	\$	475,848.50	Reductions:		
Reductions:			Actual vs. Budget Shortfall from FY 2019/20	\$	(165,694.75)
Invoices paid July 2020 - November 2020	\$	(217,821.00)	Mediation invoice paid	\$	(8,450.00)
Invoices paid December 2020 - June 2021	\$	(220,365.00)	Subtotal Reductions:	\$	(174,144.75)
Invoices paid July 2021 - August 2021	\$	(37,662.50)	Invoices paid December 2020 - June 2021	\$	(220,365.00)
Subtotal Reductions:	\$	(475,848.50)	Invoices paid July 2021 - August 2021	\$	(37,662.50)
			Total Reductions	\$	(432,172.25)
Ending Fund Balance as of August 31, 2021	\$	-			
			Agricultural Pool Reserve Funds Balance as of August 31, 2021:	\$	89,884.27
* The Admin Reserve amount of \$102,557.12 will need to be refund	ed				
back to Watermaster.			Note: Balance of \$89,884.27 as shown on B-3 Financial Report		
Fund Balance For Agricultural Pool	_		Fund Balance For Agricultural Pool		
Account 8470 - Meeting Compensation			Account 8471 - Special Projects		
Beginning Balance July 1, 2021:	s	19.525.00	Beginning Balance July 1, 2021:	<u> </u>	31.516.00
Additions:		.,.	Additions:		,
Assessment issued and paid	\$	-	Assessment issued and paid	\$	-
Budget Transfers	\$	-	Subtotal Additions:	\$	
Subtotal Additions:	\$	-	Reductions:	-	
Reductions:			Invoices paid July 2021 - August 2021	\$	-
Compensation paid July 2021 - August 2021	\$	(4,000.00)	Budget Transfers	\$	-
Subtotal Reductions:	\$	(4,000.00)	Subtotal Reductions:	\$	-
Ending Fund Balance as of August 31, 2021	\$	15,525.00	Ending Fund Balance as of August 31, 2021	\$	31,516.00

Fund Balance For Non-Agricultural Pool	
Account 8567 - Legal Services	
Beginning Balance July 1, 2021:	\$ 32,320.70
Additions:	
Assessment issued and paid	\$ -
Reductions:	
Invoices paid July 2021 - August 2021	\$ (3,385.80)
Ending Fund Balance as of August 31, 2021	\$ 28,934.90
Fund Balance For Appropriative Pool	
Account 8367 - Legal Services	
Beginning Balance July 1, 2021:	\$ 62,391.25
Additions:	
Assessment issued and paid	\$
Subtotal Additions:	\$
Reductions:	
Invoices paid July 2021 - August 2021	\$ (29,826.00)
Accrued (not paid)	\$
Subtotal Reductions:	\$ (29,826.00)
Ending Fund Balance as of August 31, 2021	\$ 32,565.25

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

"CARRY OVER" FUNDING
BACKGROUND OF "CARRY OVER" FUNDING

CURRENT MONTH - AUGUST 2021

As of August 31, 2021, the total (YTD) amount remaining of the "Carried Over" funding is \$2,708,370.59 (\$2,943,828.87 - \$235,458.28 = \$2,708,370.59).

The following details are provided:

"Carried Over" Expenses At June 30, 2021

Total Balance, July 1, 2021	\$ 2,943,828.87				
Non-Agricultural Pool - Legal Services	\$ 32,320.70	Υ	8567	FY 2020/21	ONAP
Agricultural Pool - Special Project Funding	\$ 31,516.00	Χ	8471	FY 2020/21	OAP
Agricultural Pool - Mtg. Attendance Compensation	\$ 19,525.00	W	8470	FY 2020/21	OAP
Agricultural Pool - Legal & Technical Services	\$ 61,814.00	V	8467	FY 2020/21	OAP
Appropriative Pool - Legal Services	\$ 62,391.25	U	8367	FY 2020/21	AP
Funds on Hold for Projects/Refund	\$ 1,434,582.42	Т	7690.9	FY 2017/18	PROJ
Lower Day Basin RMPU (TO #2)	\$ 238,646.90	S	7690.8	FY 2016/17	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 5,000.00	R	7690.7	FY 2015/16	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 15,062.88	R	7690.7	FY 2014/15	PROJ
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$ 43,220.00	Q	7610	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$ 73,975.00	Р	7510	FY 2020/21	ENG
PE4 - Northwest MZ-1 Area Project	\$ 89,096.00	0	7402.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$ 37,732.00	Ν	7210	FY 2020/21	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$ 54,694.00	М	7206.1	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$ 120,000.00	L	7202.2	FY 2020/21	ENG
Agriculture Production and Estimation	\$ 42,682.00	K	7110.3	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$ 3,772.00	J	7107.8	FY 2020/21	ENG
Ground Level Monitoring - SAR Imagery	\$ 85,000.00	1	7107.3	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$ 14,594.00	Н	6906.15	FY 2020/21	ENG
OBMP - Watermaster Model Update	\$ 9,000.00	G	6906.1	FY 2020/21	ENG
Meter Installation - Calibration and Testing	\$ 181,650.00	F	7102.8	FY 2018/19	OBMP
Meter Installation - New Meter Installation	\$ 175,400.00	Е	7102.65	FY 2018/19	OBMP
2020 OBMP Update - Tom Dodson & Associates	\$ 17,064.56	D	6908.1	FY 2020/21	ОВМР
Other Office Equipment - Boardroom Upgrades	\$ 41,295.45	С	6038	FY 2020/21	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ 26,794.71	С	6038	FY 2019/20	ADMIN
Temporary Services	\$ 21,000.00	В	6017	FY 2020/21	ADMIN
Human Resources Services	\$ 6,000.00	Α	6013	FY 2020/21	ADMIN

"Carried Over" Balance, July 1, 2021	\$ 2,943,828.87				
Less: (Invoices Received To Date FY 2021/22)					
Human Resources Services	\$ -	Α	6013	FY 2020/21	ADMIN
Temporary Services	\$ (7,517.52)	В	6017	FY 2020/21	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ (1,473.08)	С	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ -	С	6038	FY 2020/21	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$ -	D	6908.1	FY 2020/21	ОВМР
Meter Installation - New Meter Installation	\$ -	E	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$ -	F	7102.8	FY 2018/19	ОВМР
OBMP - Watermaster Model Update	\$ (9,000.00)	G	6906.1	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$ (8,085.37)	Н	6906.15	FY 2020/21	ENG
Ground Level Monitoring - SAR Imagery	\$ (79,817.50)	1	7107.3	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$ -	J	7107.8	FY 2020/21	ENG
Agriculture Production and Estimation	\$ (2,545.50)	K	7110.3	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$ (16,784.25)	L	7202.2	FY 2020/21	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$ (681.62)	М	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$ -	Ν	7210	FY 2020/21	ENG
PE4 - Northwest MZ-1 Area Project	\$ (19,929.75)	0	7402.1	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$ (14,749.39)	Р	7510	FY 2020/21	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$ -	Q	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$ -	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ -	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ -	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$ -	Т	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$ (29,826.00)	U	8367	FY 2020/21	AP
Agricultural Pool - Legal & Technical Services	\$ (37,662.50)	V	8467	FY 2020/21	OAP
Agricultural Pool - Mtg. Attendance Compensation	\$ (4,000.00)	W	8470	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$ -	Χ	8471	FY 2020/21	OAP
Non-Agricultural Pool - Legal Services	\$ (3,385.80)	Υ	8567	FY 2020/21	ONAP
Updated Balance as of August 31, 2021	\$ 2,708,370.59				

Updated Balance as of August 31, 2021					
Human Resources Services	\$ 6,000.00	Α	6013	FY 2020/21	ADMIN
Temporary Services	\$ 13,482.48	В	6017	FY 2020/21	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ 25,321.63	С	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ 41,295.45	С	6038	FY 2020/21	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$ 17,064.56	D	6908.1	FY 2020/21	ОВМР
Meter Installation - New Meter Installation	\$ 175,400.00	Ε	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$ 181,650.00	F	7102.8	FY 2018/19	OBMP
OBMP - Watermaster Model Update	\$ =	G	6906.1	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$ 6,508.63	Н	6906.15	FY 2020/21	ENG
Ground Level Monitoring - SAR Imagery	\$ 5,182.50	1	7107.3	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$ 3,772.00	J	7107.8	FY 2020/21	ENG
Agriculture Production and Estimation	\$ 40,136.50	K	7110.3	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$ 103,215.75	L	7202.2	FY 2020/21	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$ 54,012.38	М	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$ 37,732.00	Ν	7210	FY 2020/21	ENG
PE4 - Northwest MZ-1 Area Project	\$ 69,166.25	0	7402.1	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$ 59,225.61	Р	7510	FY 2020/21	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$ 43,220.00	Q	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$ 15,062.88	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 5,000.00	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ 238,646.90	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$ 1,434,582.42	Т	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$ 32,565.25	U	8367	FY 2020/21	AP
Agricultural Pool - Legal & Technical Services	\$ 24,151.50	V	8467	FY 2020/21	OAP
Agricultural Pool - Mtg. Attendance Compensation	\$ 15,525.00	W	8470	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$ 31,516.00	Χ	8471	FY 2020/21	OAP
Non-Agricultural Pool - Legal Services	\$ 28,934.90	Υ	8567	FY 2020/21	ONAP
Updated Balance as of August 31, 2021	\$ 2,708,370.59				

ADMINISTRATION SERVICES:

Unspent funds related to ongoing projects and associated activities from the Administration Services budget from FY 2020/21 totaling \$95,090.16 were "Carried Over" into the current FY 2021/22 budget. These funds were from the Human Resources Services [A] in the amount of \$6,000 in account (6013); Temporary Services [B] in the amount of \$21,000 in account (6017); and Other Office Equipment-Boardroom Upgrades [C] in the amount of \$68,090.16 in account (6038). The total funds available are \$95,090.16.

OBMP ACTIVITIES:

The OBMP Update costs relate to the contract between Tom Dodson and Associates and CBWM to procure environmental review services for the 2020 OBMP Update. The original budget was \$225,500 and was approved during FY 2019/20. At the end of June 30, 2021 a remaining balance in the fund of \$17,064.56 was "Carried Over" into the current FY 2021/22 budget. The 2020 OBMP Update - Tom Dodson & Associates [D] in the amount of \$17,064.56 in account (6908.1).

Unspent funds related to ongoing projects and associated activities from the Agricultural area metering installation efforts budget from FY 2018/19 in several accounts totaling \$357,050 were "Carried Over" into the current FY 2021/22 budget. These funds were from the Meter Installation - New Meter Installation [E] in the amount of \$175,400 in account (7102.65); and Meter Installation - Calibration and Testing [F] in the amount of \$181,650 in account (7102.8). The total funds available are \$374,114.56.

ENGINEERING SERVICES:

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2020/21 in several accounts totaling \$573,765 were "Carried Over" into the current FY 2021/22 budget. These funds were from the OBMP - Watermaster Model Update [G] in the amount of \$9,000 in account (6906.1); Integrated Model-Meetings-50% IEUA Costs [H] in the amount of \$14,594 in account (6906.15); Ground Level Monitoring-SAR Imagery [I] in the amount of \$85,000 in account (7107.3); Ground Level Monitoring-Capital Equipment [J] in the amount of \$3,772 in account (7107.8); Agriculture Production and Estimation [K] in the amount of \$42,682 in account (7110.3); PE2 - Comprehensive Recharge-Engineering Services [L] in the amount of \$120,000 in account (7202.2); SB88 Specs-Ensure Compliance-50% IEUA [M] in the amount of \$54,694 in account (7206.1); OBMP-2023 RMPU [N] in the amount of \$37,732 in account (7210); PE4 - Northwest MZ-1 Area Project [O] in the amount of \$89,096 in account (7402.1); PE6&7 - IEUA Salinity Management Plan [P] in the amount of \$73,975 in account (7510); and PE8&9 - Support Implementation 2020 Storage Management Plan [Q] in the amount of \$43,220 in account (7610). The total funds available are \$573,765.

ONGOING RECHARGE IMPROVEMENT PROJECTS:

The Upper Santa Ana River HCP-Task Order #7 [R] has a remaining funded balance of \$20,062.88 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 [S] has a remaining funded budget balance of \$238,646.90 in account (7690.8). The total funds available are \$258,709.78.

FUNDS ON HOLD FOR PROJECTS/REFUND:

The "Funds on Hold for Projects/Refund" [T] has a remaining budget from FY 2017/18 of \$1,434,582.42 in account (7690.9). By unanimous action of the Watermaster Board on June 24, 2021 the amount of \$1,234,582.42 is to be refunded to the Appropriative Pool with the upcoming November 2021 Assessment Package. The amount of \$200,000 will be kept on hold until the warranty period for the San Sevaine Project has expired, and no warranty issues are noted.

POOL RELATED FUNDING;

The remaining funding items are strictly Pool related and are added to the FY 2021/22 budget to ensure proper funding is recorded and tracked. The Appropriative Pool Legal Services [U] in the amount of \$62,391.25 in account (8367); the Agricultural Pool Legal and Technical Services [V] in the amount of \$61,814 in account (8467); the Agricultural Pool Meeting Attendance Compensation [W] in the amount of \$19,525 in account (8470); the Agricultural Pool Special Project Funding [X] in the amount of \$31,516 in account (8471); and the Non-Agricultural Pool Legal Services [Y] in the amount of \$32,320.70 in account (8567). The total funds available are \$207,566.95.

As invoices are received from the vendors and booked against these items listed above, the "Carried Over" balance will be reduced throughout the current fiscal year. At June 30, 2022, any remaining balances of the FY 2020/21 and prior years funding (if any), along with any new FY 2021/22 expenses, will then be "Carried Over" into the FY 2022/23 budget.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

AUDIT FIELD WORK

CURRENT MONTH - AUGUST 2021

The Annual Financial and Audit Reports are tentatively scheduled for presentation to the Watermaster Board by Fedak & Brown LLP at the October 28, 2021 Board meeting. The Annual Financial and Audit Reports for FY 2020/21 are tentatively scheduled for posting to the Watermaster website no later than October 31, 2021.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2021:

The auditors from the audit firm of Fedak & Brown LLP started the interim field work on June 8, 2021 through June 9, 2021. The plan was for the auditors not to be onsite at the Watermaster office for the interim field audit. Instead, all of the audit schedules, accounts payable selections, accounts receivable selections, bank reconciliations, payroll and timesheet selections, and any other reports and information were provided to the auditors electronically via Dropbox software. This was the start of the interim field work for the period of July 1, 2020 through March 31, 2021.

The final field work for the period of April 1, 2021 through June 30, 2021 was started on September 1, 2021 and continued through September 3, 2021.

FY 2021/22 EXHIBIT "G" NON-AGRICULTURAL POOL SALE OF WATER

CURRENT MONTH - AUGUST 2021

No Exhibit "G" activity for the month to report.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

ASSESSMENTS AND OTHER INVOICING

CURRENT MONTH - AUGUST 2021

FY 2021/22 Assessment Package

No new current activity to report.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

ATTACHMENTS

1. Financial Report - B5

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

1/12th (8.33%) of the Total Budget

2/12th (16.67%) of the Total Budget

100% of the Total Budget

			of August 2021	get	Year-To-Date as of August 31, 2021				Fiscal Year End as of June 30, 2022			
		or The Month o									-	
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
Income												
4010 · Local Agency Subsidies	0.00	0.00	0.00	0.0%	177,430.03	177,430.00	0.03	100.0%	177,430.03	177,430.00	0.03	100.0%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	7,175,034.00	7,175,034.00	0.00	100.0%
4120 · Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	249,843.00	249,843.00	0.00	100.0%
4130 · Admin Asmnts-Agricultural Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	200,000.00	0.00	200,000.00	100.0%
4700 · Non Operating Revenues	3.07	0.00	3.07	100.0%	6.33	0.00	6.33	100.0%	106,125.00	106,125.00	0.00	100.0%
4900 · Miscellaneous Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Income	3.07	0.00	3.07	100.0%	177,436.36	177,430.00	6.36	100.0%	7,908,432.03	7,708,432.00	200,000.03	102.6%
Gross Profit	3.07	0.00	3.07	100.0%	177,436.36	177,430.00	6.36	100.0%	7,908,432.03	7,708,432.00	200,000.03	102.6%
Expense												
6010 · Admin. Salary/Benefit Costs	126,236.93	114,667.00	11,569.93	110.09%	232,668.87	246,993.00	-14,324.13	94.2%	1,235,557.00	1,235,557.00	0.00	100.0%
6020 · Office Building Expense	11,205.75	25,319.00	-14,113.25	44.26%	21,241.57	51,263.00	-30,021.43	41.44%	223,929.00	223,929.00	0.00	100.0%
6030 · Office Supplies & Equip.	3,890.50	2,300.00	1,590.50	169.15%	6,760.60	73,065.16	-66,304.56	9.25%	99,690.16	99,690.16	0.00	100.0%
6040 · Postage & Printing Costs	2,168.48	2,593.00	-424.52	83.63%	4,529.09	5,595.00	-1,065.91	80.95%	37,460.00	37,460.00	0.00	100.0%
6050 · Information Services	10,472.43	15,539.00	-5,066.57	67.39%	23,201.88	30,310.00	-7,108.12	76.55%	173,398.00	173,398.00	0.00	100.0%
6060 · Contract Services	1,095.00	8,100.00	-7,005.00	13.52%	4,682.16	18,200.00	-13,517.84	25.73%	56,545.00	56,545.00	0.00	100.0%
6070 · Watermaster Legal Services	32,851.19	26,424.00	6,427.19	124.32%	63,284.01	55,341.00	7,943.01	114.35%	326,975.00	326,975.00	0.00	100.0%
6080 ⋅ Insurance	8,853.24	10,256.00	-1,402.76	86.32%	40,581.57	44,470.00	-3,888.43	91.26%	46,797.00	46,797.00	0.00	100.0%
6110 · Dues and Subscriptions	-162.92	950.00	-1,112.92	-17.15%	16,123.94	17,320.00	-1,196.06	93.09%	38,815.00	38,815.00	0.00	100.0%
6140 · WM Admin Expenses	98.57	337.00	-238.43	29.25%	249.26	675.00	-425.74	36.93%	4,750.00	4,750.00	0.00	100.0%
6150 · Field Supplies	0.00	200.00	-200.00	0.0%	0.00	313.00	-313.00	0.0%	2,750.00	2,750.00	0.00	100.0%
6170 · Travel & Transportation	1,719.29	2,550.00	-830.71	67.42%	2,984.44	4,255.00	-1,270.56	70.14%	24,170.00	24,170.00	0.00	100.0%
6190 · Training, Conferences, Seminars	1,679.00	3,400.00	-1,721.00	49.38%	3,483.16	6,800.00	-3,316.84	51.22%	40,800.00	40,800.00	0.00	100.0%
6200 · Advisory Committee Expenses	967.73	4,952.00	-3,984.27	19.54%	6,758.83	9,787.00	-3,028.17	69.06%	55,336.00	55,336.00	0.00	100.0%
6300 · Watermaster Board Expenses	1,415.60	14,453.00	-13,037.40	9.8%	18,487.32	28,724.00	-10,236.68	64.36%	190,149.00	190,149.00	0.00	100.0%
8300 · Appr PI-WM & Pool Admin	18,013.94	6,875.00	11,138.94	262.02%	37,242.97	75,968.25	-38,725.28	49.02%	139,365.25	139,365.25	0.00	100.0%
8400 · Agri Pool-WM & Pool Admin	555.14	6,177.00	-5,621.86	8.99%	4,151.30	12,207.00	-8,055.70	34.01%	69,011.00	69,011.00	0.00	100.0%
8467 · Ag Legal & Technical Services	7,675.00	0.00	7,675.00	100.0%	37,662.50	61,814.00	-24,151.50	60.93%	61,814.00	61,814.00	0.00	100.0%
8470 · Ag Meeting Attend -Special	2,000.00	0.00	2,000.00	100.0%	4,000.00	19,525.00	-15,525.00	20.49%	19,525.00	19,525.00	0.00	100.0%
8471 · Ag Pool Expense	0.00	0.00	0.00	0.0%	0.00	31,516.00	-31,516.00	0.0%	31,516.00	31,516.00	0.00	100.0%
8485 · Ag Pool - Misc. Exp Ag Fund	0.00	0.00	0.00	0.0%	0.00	100.00	-100.00	0.0%	400.00	400.00	0.00	100.0%
8500 · Non-Ag PI-WM & Pool Admin	1,863.29	5,178.00	-3,314.71	35.99%	7,188.60	42,573.70	-35,385.10	16.89%	90,066.70	90,066.70	0.00	100.0%
9400 · Depreciation Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9500 · Allocated G&A Expenditures	-21,017.86	-38,787.00	17,769.14	54.19%	-42,700.90	-77,572.00	34,871.10	55.05%	-465,442.00	-465,442.00	0.00	100.0%
6900 · Optimum Basin Mgmt Plan	85,532.79	105,954.00	-20,421.21	80.73%	157,094.46	266,740.56	-109,646.10	58.89%	1,313,453.56	1,313,453.56	0.00	100.0%
9501 · G&A Expenses Allocated-OBMP	5,886.61	13,937.00	-8,050.39	42.24%	10,493.80	27,872.00	-17,378.20	37.65%	167,242.00	167,242.00	0.00	100.0%
7101 - Production Monitoring	1,475.38	9,085.00	-7,609.62	16.24%	8,695.98	17,777.00	-9,081.02	48.92%	102,740.00	102,740.00	0.00	100.0%
7102 · In-line Meter Installation	0.00	1,443.00	-1,443.00	0.0%	0.00	359,889.00	-359,889.00	0.0%	373,617.00	373,617.00	0.00	100.0%
7103 - Grdwtr Quality Monitoring	50,454.39	56,686.00	-6,231.61	89.01%	79,307.67	86,112.00	-6,804.33	92.1%	352,035.00	352,035.00	0.00	100.0%
7104 · Gdwtr Level Monitoring	14,170.06	25,678.00	-11,507.94	55.18%	33,306.02	51,082.00	-17,775.98	65.2%	303,753.00	303,753.00	0.00	100.0%
7105 · Sur Wtr Qual Monitoring	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
7106 · Wtr Level Sensors Installation	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
	•				-				•			

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

1/12th (8.33%) of the Total Budget

2/12th (16.67%) of the Total Budget

100% of the Total Budget

-	1,	/12th (8.33%) (of the Total Budg	get	2	of the Total Bud	get	100% of the Total Budget				
	F	or The Month o	of August 2021		Yea	r-To-Date as of	August 31, 2021	L	Fis	cal Year End as	of June 30, 2022	:
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7107 · Ground Level Monitoring	84,830.61	21,541.00	63,289.61	393.81%	92,241.48	131,825.00	-39,583.52	69.97%	346,810.00	346,810.00	0.00	100.0%
7108 · Hydraulic Control Monitoring	4,940.00	6,632.00	-1,692.00	74.49%	4,940.00	17,722.00	-12,782.00	27.88%	83,379.00	83,379.00	0.00	100.0%
7109 · Recharge & Well Monitoring Prog	1,706.25	2,767.00	-1,060.75	61.66%	1,706.25	5,535.00	-3,828.75	30.83%	33,208.00	33,208.00	0.00	100.0%
7110 · Ag Production & Estimation	926.25	1,186.00	-259.75	78.1%	2,545.50	45,053.00	-42,507.50	5.65%	56,910.00	56,910.00	0.00	100.0%
7111 · Improved Data Collection & Mgmt	1,157.25	1,680.00	-522.75	68.88%	1,157.25	3,359.00	-2,201.75	34.45%	20,158.00	20,158.00	0.00	100.0%
7200 · PE2- Comp Recharge Pgm	10,845.56	15,161.00	-4,315.44	71.54%	27,006.84	509,355.00	-482,348.16	5.3%	1,458,198.00	1,458,198.00	0.00	100.0%
7300 · PE3&5-Water Supply/Desalte	0.00	4,077.00	-4,077.00	0.0%	712.00	8,088.00	-7,376.00	8.8%	47,793.00	47,793.00	0.00	100.0%
7400 · PE4- Mgmt Plan	28,973.75	25,111.00	3,862.75	115.38%	46,317.00	139,275.00	-92,958.00	33.26%	389,739.00	389,739.00	0.00	100.0%
7500 · PE6&7-CoopEfforts/SaltMgmt	17,616.66	12,683.00	4,933.66	138.9%	32,451.58	99,290.00	-66,838.42	32.68%	225,364.00	225,364.00	0.00	100.0%
7600 · PE8&9-StorageMgmt/Conj Use	9,244.68	25,980.00	-16,735.32	35.58%	9,539.54	95,086.00	-85,546.46	10.03%	353,463.00	353,463.00	0.00	100.0%
7690 · Recharge Improvements	0.00	0.00	0.00	0.0%	529,029.00	2,222,321.20	-1,693,292.20	23.81%	2,222,321.20	2,222,321.20	0.00	100.0%
7700 · Inactive Well Protection Prgm	0.00	42.00	-42.00	0.0%	0.00	83.00	-83.00	0.0%	500.00	500.00	0.00	100.0%
9502 · G&A Expenses Allocated-Projects	15,131.25	24,850.00	-9,718.75	60.89%	32,207.10	49,700.00	-17,492.90	64.8%	298,200.00	298,200.00	0.00	100.0%
Total Expense	544,471.79	565,976.00	-21,504.21	96.2%	1,561,332.64	4,895,407.87	-3,334,075.23	31.89%	10,652,260.87	10,652,260.87	0.00	100.0%
Net Ordinary Income	-544,468.72	-565,976.00	21,507.28	96.2%	-1,383,896.28	-4,717,977.87	3,334,081.59	29.33%	-2,743,828.84	-2,943,828.87	200,000.03	93.21%
Other Income												
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4225 · Interest Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4226 · LAIF Fair Market Value	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4227 · AP Escrow Interest	24.67	0.00	24.67	100.0%	49.32	0.00	49.32	100.0%	0.00	0.00	0.00	0.0%
4600 · Groundwater Sales	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4715 · Gain on Sale of Assets	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other Income	24.67	0.00	24.67	100.0%	49.32	0.00	49.32	100.0%	0.00	0.00	0.00	0.0%
Other Expense												
5010 · Groundwater Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
5100 · Other Water Purchases	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9200 · Interest Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9251 · Other Post Employment Benefits	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996 · Refund-Excess Reserves-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996.5 · Refund-Basin O&M-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997 · Refund-Excess Reserves-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997.5 · Refund-Basin O&M-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9998 · Refund-Recharge Debt-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9999 · To/(From) Reserves	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Net Other Income	24.67	0.00	24.67	100.0%	49.32	0.00	49.32	100.0%	0.00	0.00	0.00	0.0%
Net Income	-544,444.05	-565,976.00	21,531.95	96.2%	-1,383,846.96	-4,717,977.87	3,334,130.91	29.33%	-2,743,828.84	-2,943,828.87	200,000.03	93.21%

Note: Please see the staff report (Financial Report-B10) for additional detailed information on the account categories.

III. REPORTS/UPDATES D. GENERAL MANAGER 2. Chino Basin Sustainability Report
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The Big Picture in 2021: Chino Basin Sustainability Report



This report is an update on the status of Basin stewardship efforts and trends of some of the Basin management drivers identified in the 2020 OBMP. For perspective, information is offered on key milestones from the date of the Judgment, and highlights from 5, 10, and 20 years ago.

BASIN STEWARDSHIP EFFORTS

SUSTAINABILITY

"Sustainability" is a general requirement for groundwater management in California under the Sustainable Groundwater Management Act ("SGMA"). The Basin is expressly exempt from the legislative requirements because of court oversight and Watermaster administration. "Sustainability" is largely measured under SGMA as whether management maximizes the beneficial use of groundwater without causing undesirable results. This is a direct paraphrase of Watermaster's duty under the Judgment. Toward that end data collection is continuing through the ongoing **Chino Basin Monitoring Program.** This

includes groundwater levels, groundwater production, water quality, as well as Santa Ana River flow and water quality, ground level movement, land use and climate data. The data collection, evaluation, and reporting are being done following prior Court Orders, and have associated timelines. Prado Basin habitat monitoring and reporting, a Peace II CEQA mitigation measure, is also ongoing. Watermaster also continues to implement the Maximum Benefit Salt Nutrient Management Plan that allows for use and recharge of recycled water in the Basin, as well as continued implementation of the MZ-1 Subsidence Management Plan through the Ground Level Monitoring Committee.

The balance of recharge and discharge from each management zone, and the cumulative effect of transfers are currently being evaluated. These are being done pursuant to prior Court Orders.

The 2020 OBMP Implementation Plan has not yet been developed with the exception of the Local Storage Limitation Solution (Program Element 8.) To effectively manage the Basin the **2020 OBMP Implementation Plan** covering all elements needs to be developed with input from the parties and agreed to by all the signatories to the Peace Agreement. Beyond the Local Storage Element, a **Water Quality Management Plan** and a **Storage and Recovery Plan** need to be advanced. Currently these efforts are not under consideration.

Additionally, it is essential that the Inland Empire Utilities Agency (IEUA) as the lead agency proceed with

In the year...

2000/01:

Watermaster began implementation of the OBMP Implementation Plan: established monitoring and reporting efforts; ag well metering; development of a Recharge Master Plan; and started planning the first Desalter expansion.

Watermaster, IEUA, and TVMWD developed the DYY Agreement with MWD, allowing imported water to be stored in the Basin.

Watermaster Rules and Regulations were revised by April 2001 as ordered by the Court.

Agreements on privacy for AG data were developed.

2010/11:

Watermaster's Engineer began to update the groundwater model for the Safe Yield Recalculation. The data for the model update included the more robust data collected in the previous decade as a result of the OBMP Basin-wide Monitoring Plan.

The Overlying (Non-Agricultural) and Appropriative Pools and Watermaster continued ongoing legal argument regarding the June 30, 2007 Purchase and Sale Agreement included in the Peace II documents (Paragraph 31.)

The Appropriative Pool considered and adopted an update to its 85/15 Rule Policy.

Assessment Package was delayed until January 2012 due to issues with the 85/15 rule and storage of water in the Basin, delaying collection of funds for Watermaster's annual budget.

the certification of the necessary **CEQA documentation for the 2020 OBMP**. The document will serve as a programmatic evaluation of all potential projects that may be carried out to analyze their cumulative impacts, paving the way for individual project CEQA analyses at a later time.

The Court-required development of a **Recharge Master Plan Update** is on track to be completed in 2023. Evaluation of **additional recharge facilities** or increase of the capacity of existing facilities is up to the discretion of the parties, and currently not under consideration.

Watermaster operates openly and transparently and routinely prepares and files progress/status reports with the Court.

Considering the significance of groundwater in the water supply mix in Southern California, it would be constructive to develop policies for **interacting with neighboring basins**, which are also pursuing sustainability. Policies would address CEQA, optimizing the regional use of the groundwater resources, enhancement of regional reliability, shared consultant expenses, use of the Chino Valley Model, and SGMA. Currently such policy development is not under consideration.

SAFE YIELD OF THE BASIN

The **2025 Safe Yield evaluation** is on track to meet the Court-ordered timeframe. As a first step Watermaster has begun to **evaluate uncertainty** associated with modeling of the Basin and may recommend changes to the Safe Yield Evaluation Methodology.

Watermaster has been asked to respond to questions related to storage, stemming from the ongoing **Storage contest**. Consistent with its objective to operate openly and transparently, Watermaster will request input from all parties before embarking on responding to the questions to allow for a streamlined process and facilitate a comprehensive response.

A study suggested by several Appropriators to evaluate **optimization of Safe Yield** would be valuable to the parties to the Judgment. The study would consider future scenarios and recommend alternatives that maximize the safe yield while allowing parties to make the best use of their water rights. While such a study would be in furtherance of the objective of optimizing beneficial use, the study is not currently under consideration.

2015/16:

Watermaster and the stakeholders began working on the looming issue of reaching the maximum permitted storage limit; IEUA adopted the first addendum to the OBMP EIR to permit temporary storage increase from 500kaf to 600kaf until 2021. Watermaster's Engineer started the Storage Framework Investigation to evaluate the changes in storage under various scenarios.

Appropriative Pool members continued legal argument regarding Safe Yield Reset and provisions of the Peace II agreement regarding Desalter Replenishment Obligation.

Hydraulic control achievement was demonstrated to the satisfaction of the RWQCB.

2020/21:

Watermaster adopted the 2020 OBMP. The adoption concluded a nearly two-year effort to update the OBMP, the planning document that has guided basin management efforts since 2000.

The Court ordered the extension of local storage limits from 500,000 ac-ft to 700,000 ac-ft until 2030 and 620,000 ac-ft until 2035, averting the possibility of parties having to evacuate storage accounts. IEUA adopted Addendum #2 to the OBMP PEIR to support the action.

The Pomona Extensometer installation was completed, starting to provide much-needed data toward the development of a subsidence management plan for the northwest area of the Basin.

The Appropriative and Overlying (Agricultural) Pools continued ongoing legal argument about interpretation of Peace Agreement Paragraph 5.4(e); the ongoing argument deferred processing of the Storage Contest initiated by the Overlying (Agricultural) Pool.

2020 OBMP Drivers

HYDROLOGIC CHANGES

FUNDING

LEGISLATION, REGULATION AND AGREEMENTS

SALT AND NUTRIENT MANAGEMENT

OUTSIDE INTEREST IN CHINO BASIN OPERATIONS

GROWTH

VULNERABILITY OF INFRASTRUCTURE

SCIENTIFIC AND TECHNOLOGIC IMPROVEMENTS

SALT AND NUTRIENT MANAGEMENT

Increased TDS concentrations in imported water and implementation of rationing and conservation measures have resulted in an increase in TDS concentrations in recycled water effluents that jeopardize compliance with existing permits.

Watermaster and IEUA are working with the Regional Board

in exploring revised compliance metrics that better reflect the new hydrologic trends and allow for improved approaches and timelines for salinity management actions. These actions are consistent with the OBMP and enable maximum beneficial use of all water supplies available to the Chino Basin parties.

OUTSIDE INTEREST IN CHINO BASIN OPERATIONS

As upstream and downstream agencies consider implementation of new water supply projects that will have an effect on the flows of the Santa Ana River, there is increased interest in the operations within Chino Basin. This includes regional efforts like the Upper Santa Ana River Habitat Conservation Plan, the Basin Monitoring Program Task Force, and related modeling efforts like the Integrated Santa Ana River Model, in which Watermaster and IEUA are partners and participants.

The increased interest in Chino Basin operations emphasizes the need for a robust monitoring network and a continued cooperative relationship with the regulatory agencies like Cal Fish and Wildlife and the Regional Board. Watermaster maintains a close relationship with these agencies and actively participates in regional efforts towards cooperative implementation of projects that will protect the interests and past investments of the parties and benefit the watershed.

FUNDING OPPORTUNITIES

There is an unprecedented number of funding opportunities to improve water systems at all levels (i.e., local, state, and federal). These grants are available for a variety of projects including improvement of infrastructure, climate change resilience, projects that directly benefit disadvantaged communities, drought resilience, water quality improvements, and safe drinking water. The economic and population expansion in Chino Basin is

HYDROLOGIC CHANGES

Increasing average surface temperatures, shrinking snowpack coverage and premature melting, and reduction of runoff from the mountains result in decreased availability of imported water and increased TDS concentrations in imported water.

A reduced State Water Project allocation reduces the ability of the Chino Basin to recharge imported water, to satisfy the replenishment obligations with "wet" water, increases the stress on local water resources, and reduces the availability of high-quality water for blending. Since imported water TDS

concentrations increase during low allocation periods with water rationing and conservation efforts, TDS concentrations in recycled water increase, which risks IEUA's and Watermaster's ability to comply with permits and water quality regulations. The Court Order regarding Watermaster is implementing the Local Storage Limitation Solution ensures there is stored water in the basin for use during imported water scarcity.

Please see Page 5 for a more in-depth discussion of climate change and its implications on Chino Basin.



LEGISLATION, REGULATION, AND AGREEMENTS

The California Legislature and Administration continue to look at all issues through a social justice lens. We have seen environmental justice advocates appointed to key administration positions and funding set aside for disadvantaged communities in budget allocations as well as bond funding. This is a trend that is expected to continue to be prominent in Sacramento, both in legislative and regulatory efforts.

Additionally, there has been and will continue to be a focus on clean drinking water, focusing on the chemical du jour. We have seen this with Chrom-6 MCLs, overturned by the courts, but more recently with legislative activity to regulate PFAS and PFOA and regulatory activity currently occurring. Both trends are expected to continue as water

and other natural resources laws and regulations are pursued.

emerging contaminants and

with an increased focus on

advancements in contaminant

detection technologies, paired

An increased focus on

social justice issues related to water and clean drinking water, will mean an increased scrutiny on Basin operations and pressure on regulatory and legislative bodies to expedite the development of contaminant limits. These trends will put additional burden on existing treatment infrastructure and on the ability of the region to fulfill its water demands, however, there are also new opportunities that will be made available through bonds and grants specific for disadvantaged communities.

continuing; these funding opportunities could offer significant benefit toward local infrastructure needs.

The Chino Basin regional and local agencies need to be ready to apply and receive funding for projects that will improve the Basin's infrastructure. This includes performing the necessary environmental analyses and legal work to swiftly implement projects if the opportunities arise.

Hydrologic Changes

The planet has been experiencing a warming trend since the mid-20th century that is proceeding at a rate that is unprecedented over millennia. The warming trend and its physical impacts are expected to continue and increase in severity.¹

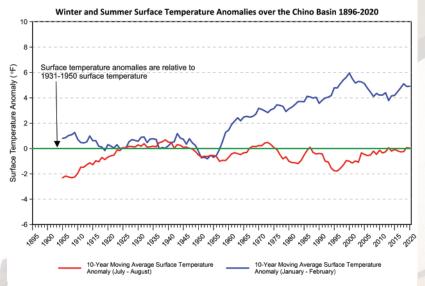
Globally, the warming trend is causing: retreating glaciers and melting polar ice; warming and acidification of the ocean; rising sea levels; more frequent and intense heat waves and drought; and less frequent but higher intensity precipitation and flooding.

Regionally across the western U.S, climate-change impacts include: reduced availability of imported waters from the State Water Project and the Colorado River; higher salinity in these imported waters; mandates for water conservation; restrictions on outdoor water use; and increases in recycling of wastewater.

Locally, the Chino Basin has experienced an increase in the frequency/intensity of dry periods and increasing winter-time temperatures. Since 1896, four of the five driest years on record occurred during the 2002-2020 period. From 1954 to 2020, the average winter-time temperature has increased by about 5 degrees Fahrenheit, which results in reduced snowfall and increased precipitation and runoff [see inset chart].

The main potential impacts of climate-change on the Chino Basin include:

- Decreases in recharge which will reduce the Safe Yield of the Chino Basin.
- Increases in salinity which can cause regulatory-compliance challenges with the reuse and recharge of recycled water.
- Lower availability of imported and recycled waters which are important supplemental water supplies needed to sustainably manage the Chino Basin and maximize its beneficial use.



Since 1954, winter-time temperatures have increased in the Chino Basin by about 5 degrees Fahrenheit. Higher winter-time temperatures result in reduced snowfall, increased runoff associated with individual precipitation events, more frequent exceedance of the recharge capacity of existing recharge facilities, and hence, reduced recharge.

While these climate-change impacts will likely occur somewhat gradually in the future, Watermaster and the parties can proactively combat these impacts through the implementation of the 2020 OBMP:

- **Recharge Master Planning,** where recharge projects are designed and implemented to increase the capacity to recharge storm-water runoff and supplemental waters when they are available.
- Salt Management Planning, where Watermaster uses sophisticated models to predict the impacts of
 climate change on groundwater quality and develops salt-management strategies. These efforts are executed
 in collaboration with State regulators to proactively address regulatory-compliance challenges that may limit
 the ability to reuse recycled water.
- **Storage Management,** where Watermaster can assist the Parties in developing and implementing groundwater storage programs, so that groundwater is more available during dry periods when imported and storm-water supplies are less available.

¹ IPCC, 2021: Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu and B. Zhou (eds.)]. Cambridge University Press. In Press.

Adjudication Milestones

		1970s	Conflicts over water threaten supply reliability, water quality, and the regional economy.
A pump tax is enacted to raise money to implement recharge.	1973		
The nine-member Watermaster	1000	1978	Chino Basin is adjudicated and CBMWD Board is appointed as Watermaster. Planning and funding are initiated to manage the Basin.
Board is created and tasked with the development of the OBMP. Stakeholders reach agreement (Peace	1998	1999	OBMP is developed by Watermaster with input from stakeholders and provides a detailed blueprint to ensure a reliable water supply and to protect and
Agreement) to move forward cooperatively with the OBMP Implementation Plan; Basin monitoring begins in earnest, as does the first Desalter expansion.	2000		enhance water quality. Recharge Master Plan implementation and funding agreement is reached; the
		2002	\$40 million Chino Basin Facilities Project moves forward, securing Prop 13 grant
RWQCB adopts unique Max Benefit Salinity Management Program, enabling implementation of a massive recycled water reuse, stormwater and supplemental	2004		funding for approximately half the cost.
water recharge program, and the expansion of groundwater desalting to achieve hydraulic control.		2007	Stakeholders agree (Peace II Agreement) to the second expansion of the Desalters to meet the commitments in the Max
The 2010 RMPU is updated to reflect revised UWMPs developed by water providers (2013 Amendment) to make sure the Basin will be managed at a new		2007	Benefit, securing tens of millions of dollars in grant funding and resulting in hundreds of millions of dollars in cost savings and other benefits.
equilibrium at the end of the ReOperation			
period. This forms the foundation for cost-effectively recharging storm, imported, and recycled water with the goal of improving water quality and	2013		
ensuring water supply reliability. Several recharge improvement projects are agreed to and move forward.		2016	Pumping at the Chino Desalter Authority desalter wells in the Chino Creek Well Field continues to increase and hydraulic control is demonstrated.
lanuary marks the 40th anniversary of			Desalter expansion continues.
January marks the 40th anniversary of the Chino Basin Judgment. Appeals to the first Safe Yield Reset Court Order conclude and the first Safe Yield Reset is	2018		
adopted effective 2011; Safe Yield is set at 135,000 afy.		2020	The 2020 OBMP is developed by Watermaster staff with input from stakeholders and adopted by the Board, updating the 20-year-old document. The second Safe Yield Reset is ordered
The Court approves an extension of the current Storage Management Plan from 500,000 af to 700,000 af until 2030.	2021		by the Court effective 2021; the Safe Yield is set at 131,000 afy.
	Page	334	

