

**RAYMOND BASIN MANAGEMENT BOARD**

**Regular Meeting of the Board of Directors**

**Conference Room, 1<sup>st</sup> Floor  
City of Azusa Light and Water Administration Facility  
729 N. Azusa Avenue  
Azusa, California**

**July 17, 2024**

**2:30 p.m.**

Posted: July 11, 2024

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1. Preliminary Items:
  - a. Call to Order and Determination of Quorum
  - b. Self-introductions
  - c. Additions to Agenda (2/3 vote required for action items)
  - d. Public Comment (Speakers will be limited to three minutes each)
  - e. Approval of Minutes of April 17, 2024, Regular Meeting [1]
2. A Resolution of the Board of Directors of the Raymond Basin Management Board Expressing Appreciation, Commemorating and Inviting Public Attention to the Outstanding Services Rendered by Anthony C. Zampielo (Resolution No. 58-0724) [1]
3. Treasurer's Report:
  - a. Approval of financial statement for quarter ending June 30, 2024 [1]
4. Executive Committee Report
  - a. Consideration and Approval of Weck Laboratory Contract [1]
5. Pumping and Storage & Technical Advisory Committee Report [2]
6. Ad Hoc Short-Term Storage Committee Report [2]
7. Consideration of Award of Contract for the Washington Park Monitoring Well Construction Project [1]
8. Rubio Cañon Land and Water Association's Monk Hill Pumping Reduction Plan Exemption Quarterly Update [1]
9. Annual Review of City of Sierra Madre's Imported Water Spreading Program [1]
10. Reports and results of meter testing and authorization to process appropriate adjustments [1]
11. Engineer's Report [2]

12. Executive Officer's Report [2]
13. Information Items [1]:
  - a. Groundwater production summary (fourth quarter 2023-24)
  - b. Acknowledge 2023-24 groundwater leases/exchanges/sales
  - c. Investment Report/LAIF Statements
14. Other Business
15. Adjournment; Next Regular Meeting October 16, 2024

**LEGEND**            [1]        INDICATES ACTION ANTICIPATED BY RBMB ON THIS ITEM  
                         [2]        INDICATES INFORMATION ITEM - NO RBMB ACTION ANTICIPATED

# AGENDA ITEM 1

MINUTES

RAYMOND BASIN MANAGEMENT BOARD  
REGULAR MEETING

Wednesday, April 17, 2024

BOARD MEMBERS PRESENT AND PARTIES REPRESENTED

Jennifer Betancourt Torres	Lincoln Avenue Water Company La Canada Irrigation District Las Flores Water Company Pasadena Cemetery Association Valley Water Company
Chris Burt	Kinneloa Irrigation District Huntington Library and Art Gallery
John Corona (A)	City of Arcadia
Jim Prior	San Gabriel County Water District
Stacie Takeguchi	City of Pasadena
Jessica Taylor	California American Water Company
Ken Tcheng	Sunny Slope Water Company
Lisa Yamashita-Lopez*	Rubio Cañon Land and Water Association

BOARD MEMBERS ABSENT

Paul Cranmer	City of Arcadia
Martin Ray	City of Alhambra
Jose Reynoso	City of Sierra Madre

OTHERS PRESENT

Lawrence Duncan	Lincoln Avenue Water Company
Bob Fan	Valley Water Company
Fred Hicks	Hicks-Richardson Associates (via Zoom consultant presentation)

STAFF PRESENT

Lupe Artis	Raymond Basin Management Board
Kelly Gardner	Raymond Basin Management Board
Steve Johnson	Stetson Engineers
Ana Mata	Raymond Basin Management Board
Jenny Savron	Stetson Engineers

\*Director Remote Participation Pursuant to Assembly Bill 2449: Director Lisa Yamashita-Lopez, Chair, attended the meeting virtually due to just cause.

*Director Takeguchi arrived later in the meeting.*

1. PRELIMINARY ITEMS

A regular meeting of the Raymond Basin Management Board (RBMB) was duly and regularly held in the Conference Room of the Raymond Basin Management Board Office, at 725 North Azusa Avenue, in the City of Azusa,



County of Los Angeles, State of California, 91702, and via Zoom Meeting on Wednesday, April 17, 2024, at the hour of 2:30 p.m.

The meeting was called to order by Director Yamashita-Lopez, Chair. It was determined that a quorum was present and no additions to the agenda or public comments were offered.

On motion made by Director Ken Tchong, seconded by Director Chris Burt, Secretary, and unanimously carried, the minutes of the January 17, 2024, meeting were approved.

2. REPORT FROM OUTSIDE AGENCIES

Mr. Fred Hicks, Hicks-Richardson Associates, RBMB Lobbyist, provided a presentation on federal legislative matters.

3. TREASURERS REPORT

On behalf of the Treasurer, Mr. John Corona reported that, as of March 31, 2024, the RBMB has collected \$918,700 in Assessments and \$400 in Long-Term Storage. All Assessments and Long-Term Storage Program Revenue has been collected for Fiscal Year (FY) 2023-24. He added that, as of March 31, 2024, the RBMB has spent \$1,101,000 (which includes Monk Hill Subarea In-Lieu Program, Title 22, and Salvage Credit Reimbursable Expenditures), and currently has a balance of \$47,000 in Receivables and \$3,776,000 in available cash. Reserved Funds available for groundwater recharge projects are \$2,655,000.

Director Yamashita-Lopez, Chair, asked for any questions, and with none offered, ordered the financial statement for quarter ending March 31, 2024 received and filed.

4. FINANCE AND EXECUTIVE COMMITTEE REPORT AND APPROPRIATE ACTION

Director Yamashita-Lopez, Chair, reported that the Finance and Executive Committees met jointly on March 21, 2024, and reviewed the RBMB's 2024-25 Budget and Assessment proposal; and is now recommending this budget to the full Board for approval. She reported that the proposed budget for FY 2024-25 was included in each Board Member's packet along with a spreadsheet showing the apportionment of the tentative budget among the Basin Parties.

Director Yamashita-Lopez, Chair, reported that the Committee also discussed the upcoming 2023-24 financial audit. RBMB staff has received a bid for auditing services from Egan & Egan, and following a discussion, the Committee agreed to present their recommendation to the Board to continue audit work with Egan & Egan.

The Executive Officer, Mrs. Kelly Gardner, referred to the staff report included in the Board packet, went through the budget, provided an understanding of each item and answered any questions.

Mrs. Gardner stated that the Committee recommends an increase in the assessment from \$30.00 per acre-foot to \$35.00 per acre-foot.

Item i: On motion made by Director Burt, Secretary, seconded by Director Jim Prior, and unanimously carried, the 2024-25 Proposed Tentative General Budget was approved.

Item ii: On motion made by Director Burt, Secretary, seconded by Director Prior, and unanimously carried, the 2024-25 Apportionment of Budget Among Parties was approved.

Item iii: On motion made by Director Tcheng, seconded by Director Jennifer Betancourt Torres, and unanimously carried, the Board approved renewing financial auditing services with Egan & Egan and authorizing them to prepare the 2023-24 Financial Audit.

Item iv: Director Tcheng, Nominating Committee Chair, reported that an action of Board Officers was also held and recommended the following slate of officers for FYs 2024-26:

Chair:	Jose Reynoso
Vice Chair:	Chris Burt
Secretary:	Paul Cranmer
Treasurer:	Stacie Takeguchi
Member At Large:	Lisa Yamashita-Lopez

Director Yamashita-Lopez, Chair, asked if there were any other nominations, and there being none, on motion made by Director Burt, Secretary, seconded by Director Prior, and unanimously carried, the slate of officers was adopted for FY 2024-26.

*Director Takeguchi joined the meeting.*

5. PUMPING AND STORAGE AND TECHNICAL ADVISORY COMMITTEE REPORT AND APPROPRIATE ACTION

Mrs. Gardner reported that the Pumping and Storage Committee met jointly with the Technical Advisory Committee on March 5, 2024 and April 2, 2024, and referenced the staff reports included in the Board packet, stating that the discussion included the status of the Raymond Basin Model, Monk Hill Short-Term Storage Concept and Santa Anita Subarea 500' Rule.

Mr. Johnson referenced the presentation included in the Board packet and provided an overview of three suggested successive model simulations addressing potential dry climate impacts, enhancing groundwater storage, and the significance of the Eaton Wash Fault.

On motion made by Director Burt, Secretary, seconded by Director Stacie Takeguchi, and unanimously carried, that the three successive model simulations were approved.

6. RUBIO CAÑON LAND AND WATER ASSOCIATION'S MONK HILL PUMPING REDUCTION PLAN EXEMPTION QUARTERLY UPDATE

Mrs. Gardner referred to Director Yamashita-Lopez', Chair, written report included in the Board packet.

On motion made by Director Burt, Secretary, seconded by Director Prior, and unanimously carried, Rubio Cañon Land and Water Association's Monk Hill Pumping Reduction Plan Exemption Quarterly Update, was received and filed.

7. EVALUATION OF SANTA ANITA SUBAREA GROUNDWATER PUMPING "500-FOOT RULE"

Mr. Steve Johnson, Stetson Engineers, reported that this is an annual review of the groundwater levels within the East Raymond Basin - Santa Anita Subarea, that influences water production. He then referred to the staff report included in the Board packet and provided an overview on groundwater pumping and levels.

Mr. Johnson stated that it is staff's recommendation to continue supporting the cities of Arcadia and Sierra Madre in their efforts to manage groundwater levels in the Santa Anita Subarea, and groundwater pumping continue to be reduced, consistent with the Judgment.

On motion made by Director Prior, seconded by Director Tcheng, and unanimously carried, the Santa Anita Subarea Groundwater Pumping "500-Foot Rule," was received and filed.

8. CONSIDERATION AND APPROVAL OF LONG-TERM STORAGE POLICY ITEMS

Mrs. Gardner stated that this item is routine in nature and that the policy requires that it be heard at this meeting, each year. She stated that each item should be voted on independently, and that there are no changes recommended from last year.

Item A: The Executive Officer stated that it is recommended that the Board of Directors receive and file the Monk Hill Party pumping schedules pursuant to the established Long-Term Storage Accounts.

On motion made by Director Burt, seconded by Director Betancourt Torres, and unanimously carried, Item A was approved.

Item B: The Executive Officer stated that the recommendation is to approve the Determination of Administrative Charge per acre-foot for 2024-25 as \$1.50/AF.

On motion made by Director Burt, Secretary, seconded by Director Betancourt Torres, and unanimously carried, Item B was approved.

Item C: The Executive Officer requested approval for the determination of percentage loss of stored water applicable to 2024-25 and be set at 1%.

On motion made by Director Burt, Secretary, seconded by Director Betancourt Torres, and unanimously carried, Item C was approved.

9. ENGINEER'S REPORT

Mr. Johnson referred to the written Engineers Report included in the Board packet, highlighting hydrologic conditions and information by subarea on rainfall, groundwater levels, production records and spreading.

10. EXECUTIVE OFFICER'S REPORT

Mrs. Gardner referred to the report on outside activities included in the Board packet.

She thanked the City of Pasadena for including the RBMB staff in the dedication of the new Wadsworth Treatment Facility, designed to enhance the reliability, safety and quality of local water supply.

Mrs. Gardner reported on the Water Resources Development Act of 2024, stating that a draft letter will be provided to the RBMB for their review and approval.

She provided a brief update on the Strategic Planning Meeting process, stating that the Consultant is completing the interviews.

Lastly, Mrs. Gardner reported that the Pumping and Storage Committee scheduled for May 7, 2024 conflicts with the Association of California Water Agencies Conference; therefore, it will be rescheduled to a later date jointly with the Technical Advisory Committee. RBMB staff was directed to provide options of availability for consideration.

*Director Tchong left the meeting.*

11. INFORMATION ITEMS

Director Yamashita-Lopez, Chair, referred to the items included in the Board packet.

On motion made by Director Burt, Secretary, seconded by Director Jessica Taylor, and unanimously carried, the information items were noted, and received and filed.

12. OTHER BUSINESS

None.

13. ADJOURNMENT

There being no other business, a motion was made by Director Prior, seconded by Director Tchong, and unanimously carried, adjourning to the next Regular Board meeting on Wednesday, July 17, 2024, at 2:30 p.m.

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Lisa Yamashita-Lopez, Chair

Attest:

\_\_\_\_\_  
Chris Burt, Secretary

DRAFT

# AGENDA ITEM 2



RAYMOND BASIN  
MANAGEMENT BOARD

RESOLUTION NO. 58-0724

A RESOLUTION OF THE BOARD OF DIRECTORS OF  
THE RAYMOND BASIN MANAGEMENT BOARD  
EXPRESSING APPRECIATION, COMMEMORATING AND INVITING PUBLIC ATTENTION  
TO THE OUTSTANDING SERVICES RENDERED BY ANTHONY C. ZAMPIELLO  
FOR A PERIOD OF 20 YEARS OF DEDICATED SERVICE

WHEREAS, Mr. Anthony C. Zampiello served as Executive Officer for the Raymond Basin Management Board from January 8, 2003 to December 31, 2022, amassing nearly 20 years of leadership; and

WHEREAS, Mr. Zampiello during his years of service served as Assistant Secretary-Treasurer of the Board as well as a member of various stakeholder and community committees as RBMB's representative; and

WHEREAS, Mr. Zampiello commissioned and completed RBMB's first groundwater model and study in conjunction with a matching grant from Army Corps of Engineers for planning assistance to the States; and

WHEREAS, Mr. Zampiello was instrumental in coordinating a Cooperative Pumping Reduction Plan in the Pasadena and Monk Hill Subareas; an Alternative Management Scenario to address declining water levels and many other Raymond Basin groundwater studies; and

WHEREAS, Mr. Zampiello efficiently, loyally, tirelessly and professionally served the water users and Producers overlying the Raymond Basin; and

WHEREAS, during all of said public service, the Raymond Basin and all water consumers within the area have benefited from his knowledge, experience in the community, intuitive understanding of the historical richness of the region and help in managing the groundwater resources of the area and of Southern California; and

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE RAYMOND BASIN MANAGEMENT BOARD, that the Board does hereby express its wholehearted and unre-served appreciation to Mr. Anthony C. Zampiello for his unselfish and liberal commitment of time, energy and expertise on behalf of the Board and the communities it serves, and for the willing and generous contribution he has made in furthering the affairs of the Board.

ADOPTED by the RAYMOND BASIN MANAGEMENT BOARD on July 17, 2024.

RAYMOND BASIN MANAGEMENT BOARD

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CHAIR

ATTEST:

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VICE CHAIR

# AGENDA ITEM 3



**Income Statement**  
**For The 12 Periods Ended 6/30/2024**

**RAYMOND BASIN MANAGEMENT BOARD (RBM)**

	Year to Date	ORIGINAL Annual Budget	Variance	Variance %
<b>Revenue</b>				
DWR Serv. Assessments - Part A	\$ 6,000.00	\$ 6,000.00	\$ 0.00	0 %
Administration Assess - Part C	908,660.00	908,660.00	0.00	0
Long-Term Storage Program-Income	407.55	400.00	7.55	2
Title 22 Program Income	23,286.89	38,000.00	(14,713.11)	(39)
Spreading Program - Part B	4,000.00	4,000.00	0.00	0
Salvage Credit Reimbursement	0.00	2,000.00	(2,000.00)	(100)
Monk Hill Subarea In-Lieu Program Income	438,425.78	0.00	438,425.78	0
FWC - Project Income	456.00	1,000.00	(544.00)	(54)
<b>Total Revenue:</b>	<b>1,381,236.22</b>	<b>960,060.00</b>	<b>421,176.22</b>	<b>44</b>
<b>Gross Profit:</b>	<b>1,381,236.22</b>	<b>960,060.00</b>	<b>421,176.22</b>	<b>44</b>
<b>Expenses</b>				
DWR Administration	0.00	6,000.00	6,000.00	100
MSGBW Administration	256,927.00	280,284.00	23,357.00	8
Office Expense	593.89	6,000.00	5,406.11	90
Professional Services	0.00	5,000.00	5,000.00	100
General Engineering	95,422.45	140,000.00	44,577.55	32
Staff Reports for Wells	8,049.39	10,000.00	1,950.61	20
Raymond Basin 3D Model	156,461.75	0.00	(156,461.75)	0
FWC - Basin Contribution	456.00	1,000.00	544.00	54
Monk Hill Study	6,067.17	50,000.00	43,932.83	88
Federal Grant Match	0.00	50,000.00	50,000.00	100
Monitoring Well Design	3,112.50	20,000.00	16,887.50	84
Monitoring Well Construction	0.00	203,000.00	203,000.00	100
Salt & Nutrient Mgmt Plan	0.00	5,000.00	5,000.00	100
S.A. Subarea Engineering	38,163.34	50,000.00	11,836.66	24
Pasadena Subarea Study	4,737.50	50,000.00	45,262.50	91
Monk Hill Subarea In-Lieu Program	647,735.38	0.00	(647,735.38)	0
Legal Fees	3,716.40	10,000.00	6,283.60	63
Legislative Advocacy	33,000.00	40,000.00	7,000.00	18
Grant Support	0.00	10,000.00	10,000.00	100
Meeting & Travel	5,779.11	6,000.00	220.89	4
Strategic Planning	0.00	10,000.00	10,000.00	100
Mapping/GIS/Data Management	0.00	5,000.00	5,000.00	100
Baseline Assessment Study	0.00	40,000.00	40,000.00	100
Annual Report Expense	14,243.04	12,000.00	(2,243.04)	(19)
Audit Expense	3,800.00	5,000.00	1,200.00	24
Membership Dues	5,697.00	7,000.00	1,303.00	19
Title 22 Program Exp.	25,098.89	43,000.00	17,901.11	42
Spreading Program	1,486.25	4,000.00	2,513.75	63
Sierra Madre Salvage Credit Expense	879.25	2,000.00	1,120.75	56
FWC - Project Expense	456.00	1,000.00	544.00	54
Contingency	0.00	10,000.00	10,000.00	100
<b>Total Expenses:</b>	<b>1,311,882.31</b>	<b>1,081,284.00</b>	<b>(230,598.31)</b>	<b>(21)</b>
<b>Change in Net Assets from Operations:</b>	<b>69,353.91</b>	<b>(121,224.00)</b>	<b>190,577.91</b>	<b>157</b>
<b>Other Income and Expense</b>				
Interest Income - Admin. Fund	179,115.86	50,000.00	129,115.86	258
<b>Total Other Income and Expense:</b>	<b>179,115.86</b>	<b>50,000.00</b>	<b>129,115.86</b>	<b>258</b>
<b>Change in Net Assets:</b>	<b>\$ 248,469.77</b>	<b>\$(71,224.00)</b>	<b>\$ 319,693.77</b>	<b>449 %</b>

**Balance Sheet**  
**As of 6/30/2024**

**RAYMOND BASIN MANAGEMENT BOARD (RBM)**

**Assets**

**CURRENT ASSETS**

Petty Cash	\$ 200.00
Regular Checking	5,697.56
Interest Receivable	43,944.55
Title 22 - Receivable	6,243.08

**Total CURRENT ASSETS:**

56,085.19

**OTHER ASSETS**

LAIF - Admin.

5,119,370.63

**Total OTHER ASSETS:**

5,119,370.63

**Total Assets:**

\$ 5,175,455.82

**Liabilities**

**CURRENT LIABILITIES**

Deferred Assessments

1,071,770.00

**Total CURRENT LIABILITIES:**

1,071,770.00

**Total Liabilities:**

1,071,770.00

**Equity**

Retained Earnings-Current Year

248,469.77

Retained Earnings

3,855,216.05

**Total Equity:**

4,103,685.82

**Total Liabilities & Equity:**

\$ 5,175,455.82

# AGENDA ITEM 4

# RAYMOND BASIN MANAGEMENT BOARD EXECUTIVE COMMITTEE MEETING REPORT

**Meeting Date:** June 20, 2024

**Present:** L. Yamashita-Lopez, Rubio Cañon Land and Water Association (*Chair*)  
C. Burt, Kinneloa Irrigation District  
C. Feilen, San Gabriel County Water District  
J. Prior, San Gabriel County Water District  
J. Reynoso, City of Sierra Madre  
G. Takara, City of Pasadena

**Staff Present:** K. Gardner  
L. Augino

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Ms. Lisa Yamashita-Lopez chaired the meeting.

## **Review of Agenda for July 17, 2024 Regular Meeting**

The Committee reviewed the agenda for the July Board meeting. Staff was asked to inquire with Los Angeles County Flood Control District to report on local conditions and annual spreading totals.

Staff was also asked to prepare a commendation resolution honoring the upcoming retirement of former Executive Officer, Tony Zampello.

## **Annual Sierra Madre Spreading Report**

Mr. Jose Reynoso reported that Stetson Engineers will provide the annual update and that the city intends to continue utilizing the program into the next fiscal year.

## **Spreading/Diversion Metering Discussion**

Executive Officer, Mrs. Kelly Gardner, reported on annual meter testing. She stated that during the review of the Rules and Regulations on the topic, it was noted that spreading and diversion devices are also required to be tested for accuracy. The group discussed the importance of this and have directed staff to work with the Consulting Engineer on a protocol for annual testing in compliance with the Rules and Regulations.

## **Weck Laboratory Contract with Watermaster**

Mrs. Gardner reported that as part of the Raymond Basin Management Board (RBMB) contract with Main San Gabriel Basin Watermaster (Watermaster), RBMB benefits from economies of scales for certain programs. The Title 22 Water Quality sampling program through Weck Laboratories is one, though not all Producers participate. Watermaster renews the contract and extends the pricing and contract term to the RBMB. At its June 5, 2024 meeting, the Watermaster Board approved a 2-year agreement with Weck Laboratories, with a 5-8% increase on routine sampling. The same terms are offered to RBMB and staff recommends approval.

**Other**

None.

**Date of Next Executive Committee Meeting**

The Committee is scheduled to meet on Thursday, August 15, 2024

# AGENDA ITEM 5

# **RAYMOND BASIN MANAGEMENT BOARD MEETING OF THE PUMPING & STORAGE COMMITTEE AND TECHNICAL ADVISORY COMMITTEE REPORT**

**Meeting Date:** May 16, 2024

**Members Present:** **J. Reynoso**, City of Sierra Madre (Chair)  
**D. Ahlen**, City of Alhambra (Zoom)  
**J. Bailey**, La Cañada Irrigation District (Zoom)  
**J. Betancourt-Torres**, Lincoln Avenue Water Company  
**B. Boman**, City of Pasadena (Zoom)  
**C. Burt**, Kinneloa Irrigation District  
**P. Cranmer**, City of Arcadia  
**J. Corona**, City of Arcadia  
**B. Fan**, Valley Water Company  
**G. Hofer**, California American Water Company  
**S. McGee**, City of Sierra Madre (Zoom)  
**N. Ouwersloot**, Foothill Municipal Water District  
**J. Prior**, San Gabriel County Water District (Zoom)  
**G. Takara**, City of Pasadena  
**S. Takeguchi**, City of Pasadena  
**J. Taylor**, California American Water Company  
**K. Tcheng**, Sunny Slope Water Company (Zoom)  
**L. Yamashita-Lopez**, Rubio Cañon Land and Water Association (Zoom)

**Staff and Others Present:** **K. Gardner**, Executive Officer  
**L. Augino**, Water Resources Analyst II  
**S. Johnson**, Consulting Engineer  
**J. Savron**, Consulting Engineer (Zoom)  
**K. Kules**, Pasadena Resident

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The meeting was held in-person at the Raymond Basin offices and online access via Zoom conference was accommodated.

## **Monk Hill Short-Term Storage (STS) Concept**

Mr. Jose Reynoso, Chair, introduced Ms. Kelly Gardner, Executive Officer, who provided a brief background of the request to consider a STS program in the Monk Hill Subarea. The concept was first introduced at the request of Ms. Jennifer Betancourt-Torres, Lincoln Avenue Water Company, who raised awareness about the impacts of the voluntary reduction on the long-term operations of the NASA JPL remedy. Raymond Basin staff requested projections from Producers to develop options for program criteria and only received responses from Lincoln Avenue Water Company and Valley Water Company. Ms. Gardner explained that the need for flexibility appears to be tied

directly to injected water and the remedy stating that a subarea wide program might not be the most appropriate route. Ms. Betancourt-Torres described limitations restricting participation in the Cyclic Cost Offset Program offered by the Metropolitan Water District of Southern California (MWD) in 2023 and clarified that a program which generates flexibility in water use planning would be beneficial. The concept of a storage program for the use of imported water was discussed at length and the importance of defining parameters to guard against the creation of accumulated credits that are not representative of actual water storage was emphasized. Unknowns which need to be considered include the actual impact of the voluntary pumping reduction on water levels in the Monk Hill Subarea and the annual water loss. Other management strategies to enhance flexibility were also briefly discussed and Chair Reynoso suggested the creation of an Ad Hoc committee with representatives from each subarea to gather and develop potential program parameters and limitations. Mr. Justin Bailey, La Cañada Irrigation District, and Ms. Betancourt-Torres volunteered to represent the Monk Hill Subarea, Ms. Stacie Takeguchi, City of Pasadena, and Ms. Jessica Taylor, California American Water Company, volunteered to represent the Pasadena Subarea, and Mr. Paul Cranmer, City of Arcadia, and Chair Reynoso volunteered to represent the Santa Anita Subarea. Staff will coordinate a kick-off meeting.

### **Raymond Basin 3D Model: Overview of Tasks and Timeline**

Chair Reynoso introduced Mr. Steve Johnson, Consulting Engineer, who provided an update on the tasks planned and performed using the Raymond Basin 3D Model. Task 1, an evaluation of the Eaton Fault, has been completed and calibrated and a report will be distributed in the following week. Task 2, an evaluation of the Santa Anita Subarea and the Anoakia Well, is in progress and a report of the results is anticipated to be distributed before the end of May. A schedule for task 3, an evaluation of in-lieu programs, and task 4, an evaluation of hydrology conditions and projections, will be provided along with reports detailing the results from tasks 1 and 2 in coming weeks.

### **Other**

Ms. Lauren Augino, Water Resources Analyst II, reminded Producers of the deadline to conduct and submit meter tests for FY 2023-2024.



# AGENDA ITEM 6

# **RAYMOND BASIN MANAGEMENT BOARD MEETING OF THE AD HOC SHORT-TERM STORAGE COMMITTEE REPORT**

**Meeting Date:** June 20, 2024

**Members Present:** J. Betancourt-Torres, Lincoln Avenue Water Company  
C. Burt, Kinneloa Irrigation District  
B. Fan, Valley Water Company  
G. Takara, City of Pasadena  
S. Takeguchi, City of Pasadena  
J. Taylor, California-American Water Company  
L. Yamashita-Lopez, Rubio Cañon Land & Water Association

**Staff and Others Present:** K. Gardner, L. Augino, J. Savron and M. Jimenez.

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## **Introduction: Review of Objectives**

Ms. Kelly Gardner, Executive Officer, provided a brief overview of the discussion which led to the creation of the Ad Hoc Short-Term Storage (STS) Committee as well as the basic principles of the existing STS Program in the Pasadena Subarea. The consideration of a STS Program in the Monk Hill Subarea was first introduced as an option to support Lincoln Avenue Water Company (LAWC) and allow for continued operation of the NASA JPL remedy. Ms. Gardner asked Ms. Jennifer Betancourt-Torres, LAWC, to review the circumstances which first suggested the need for flexible resource planning and storage opportunities. Ms. Betancourt-Torres reviewed the opportunity to inject imported water under the Cyclic Cost Offset Program offered by the Metropolitan Water District of Southern California (MWD) in 2023 and the limitations and restrictions which prohibited participation.

## **STS Concept Discussion**

Ms. Stacie Takeguchi, City of Pasadena, suggested a Front-Loading Program as a potential solution to enhance flexibility and encourage intentionally reduced water use. She reviewed the concept of the program and potential safeguards which prevent the accumulation of paper water credits. The Front-Loading Program concept involves assignment of credit for intentional reduction of water use to be used in a subsequent year. Potential safeguards discussed include defined maximum credits per producer, limited use of credits per year, and criteria for credit awards. Ms. Gardner cautioned against developing programs which are tied to the 1955 Decreed Rights and programs which mimic the Long-Term Storage Program, both of which proved to be detrimental to the basin. Additionally, the Front-Loading Program does not immediately resolve the issues raised by LAWC as proposed. In-lieu and injected water were discussed, and the needs of producers were clarified. Programs and policies which create opportunities for flexible resource planning, allow for participation in MWD programs, and support operation of the NASA JPL remedy are needed. The Committee was renamed the Ad Hoc Storage Committee and staff was tasked with defining the purpose and goals of the Committee and reviewing existing injection and spread policies.

# AGENDA ITEM 7

## Washington Park Monitoring Well Project

### Bid Summary

Bid Opening: July 8, 2024

Bidders:

BC2	\$207,020.00*
Gregg Drilling	\$284,544.00

\*Mathematical calculation error found post opening

ITEM NO	ITEM QUANTITY	ITEM UNIT	ITEM DESCRIPTION	BC2		Gregg		CHECKED AMOUNT	TOTAL ITEM COST	DIFFERENCE BETWEEN BC2 AND GREGG
				UNIT COST	TOTAL ITEM COST	UNIT COST	TOTAL ITEM COST			
1	1	LSUM	Obtain appropriate drilling permits	\$ 2,000	\$ 2,000	\$ 2,750	\$ 2,750	\$ 2,000	\$ 2,750	\$ 750
2	1	LSUM	Provide, install, and remove temporary sound barriers	\$ 1,500	\$ 1,500	\$ 27,000	\$ 27,000	\$ 1,500	\$ 27,000	\$ 25,500
3	1	LSUM	Mobilize well drilling equipment	\$ 18,000	\$ 18,000	\$ 7,500	\$ 7,500	\$ 18,000	\$ 7,500	\$ (10,500)
4	1	LSUM	Containerize and dispose of all waste and fluid generated during the drilling and pump testing process	\$ 30,000	\$ 30,000	\$ 23,000	\$ 23,000	\$ 30,000	\$ 23,000	\$ (7,000)
5	550	LF	Drill 9-inch diameter Borehole to 550 feet bgs	\$ 102	\$ 56,100	\$ 210	\$ 115,500	\$ 56,100	\$ 115,500	\$ 59,400
6	1	LSUM	Conduct geophysical logs	\$ 4,000	\$ 4,000	\$ 5,000	\$ 5,000	\$ 4,000	\$ 5,000	\$ 1,000
7	1	LSUM	Perform caliper log of completed bore hole	\$ 1,250	\$ 1,250	\$ 2,500	\$ 2,500	\$ 1,250	\$ 2,500	\$ 1,250
8	515	LF	Furnish and install 4-inch diameter Sch 80 PVC blank casing	\$ 48	\$ 24,720	\$ 24,720	\$ 64,375	\$ 24,720	\$ 64,375	\$ 39,655
9	20	LF	Furnish and install 4-inch diameter Sch 80 PVC slotted screen	\$ 52	\$ 1,040	\$ 1,040	\$ 2,500	\$ 1,040	\$ 2,500	\$ 1,460
10	60	LF	Furnish and install gravel pack and No. 60 transition sand	\$ 72	\$ 4,320	\$ 4,320	\$ 900	\$ 4,320	\$ 900	\$ (3,420)
11	467	LF	Furnish and install cement-bentonite grout or bentonite chips	\$ 56	\$ 26,152	\$ 17	\$ 7,939	\$ 26,152	\$ 7,939	\$ (18,213)
12	20	LF	Furnish and install bentonite pellets	\$ 78	\$ 1,560	\$ 25	\$ 500	\$ 1,560	\$ 500	\$ (1,060)
13	1	LSUM	Furnish and install traffic vault set in concrete	\$ 1,650	\$ 1,650	\$ 2,500	\$ 2,500	\$ 1,650	\$ 2,500	\$ 850
14	1	LSUM	Furnish and install equipment for swabbing and bailing	\$ 2,000	\$ 2,000	\$ 1,000	\$ 1,000	\$ 2,000	\$ 1,000	\$ (1,000)
15	1	LSUM	Furnish and install equipment for pumping development	\$ 2,500	\$ 2,500	\$ 2,000	\$ 2,000	\$ 2,500	\$ 2,000	\$ (500)
16	24	Hours	Perform well swabbing and bailing	\$ 450	\$ 10,800	\$ 260	\$ 6,240	\$ 10,800	\$ 6,240	\$ (4,560)
17	24	Hours	Perform well surging and pumping tests	\$ 550	\$ 13,200	\$ 260	\$ 6,240	\$ 13,200	\$ 6,240	\$ (6,960)
18	1	LSUM	Furnish and install the well cap	\$ -	\$ -	\$ 1,400	\$ 1,400	\$ -	\$ 1,400	\$ 1,400
19	1	LSUM	Demobilize and cleanup the construction site, and close	\$ 3,000	\$ 3,000	\$ 4,500	\$ 4,500	\$ 3,000	\$ 4,500	\$ 1,500
20	1	LSUM	Prepare reports	\$ 1,500	\$ 1,500	\$ 1,200	\$ 1,200	\$ 1,500	\$ 1,200	\$ (300)
<b>TOTAL</b>				NA	\$ 207,020	\$ 205,292	NA	\$ 284,544	\$ 284,544	\$ 79,252

**Notes:**

1. There was one error on BC2's bid: bid item 8 should have totaled \$24,720, which resulted in an overall higher difference of \$1,728 for their bid.

2. The item quantity for bid item 8 is 515 feet. BC2 mistakenly took "551" in their calculation

# AGENDA ITEM 8



Date: July 17, 2024

From: Lisa Yamashita-Lopez

To: RBMB Board of Directors

Re: Rubio Cañon Land and Water Association's Monk Hill Pumping Reduction Plan Exemption  
Quarterly Update

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Rubio Cañon Land and Water Association continues working on water treatment outline options with two vendors, assessment of moving to sodium hypochlorite, equipment needs, engineering scope of work and treatment design. The bids and selection of vendors has taken a little longer than expected. Rubio is also exploring grant funding that will help cover costs. Rubio hopes to have more information from Atec soon.

# AGENDA ITEM 9





861 Village Oaks Drive, Suite 100 • Covina, California 91724  
Phone: (626) 967-6202 • FAX: (626) 331-7065 • Web site: [www.stetsonengineers.com](http://www.stetsonengineers.com)

Northern California • Southern California • New Mexico • Arizona • Nevada • Colorado

Reply to: Covina

## MEMORANDUM

**TO:** Raymond Basin Management Board

**FROM:** Stetson Engineers Inc.

**SUBJECT:** City of Sierra Madre Replenishment Program - FY 23-24

**JOB NO.:** 1927-14

**DATE:** July 10, 2024

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### Fiscal Year 2023-24

Sierra Madre's "500-foot Rule" reduced Decreed Rights are 940 acre-feet per year. During fiscal year 2023-24, Sierra Madre restarted deliveries of MWD treated imported water into the Sierra Madre Spreading Grounds and replenished 1,257.2 acre-feet of MWD treated imported water, as of June 30, 2024. Sierra Madre produced an estimated 2,109 acre-feet of groundwater through the end of June 2024. The combined water right (940 acre-feet) plus the treated imported water delivered to the Santa Anita Subarea of 1,257 acre-feet totals about 2,197 acre-feet ( $940+1,257 = 2,197$ ). Sierra Madre produced below its fiscal year 2023-24 pumping rights by about 88 ( $2,197-2,109 = 88$ ) acre-feet. Sierra Madre's reported production is less than the combined water right plus water spread and is in compliance with the Raymond Basin Judgment. Under the 500-foot Rule, there is no carry-over of unused water rights.



Sierra Madre's fiscal year 2023-24 pumping rights accounting is shown below:

Decreed Rights (500-foot Rule)	+940 AF
Treated Imported Water Replenished	+1,257 AF
Total Pumping:	- <u>2,109 AF</u>
<i>End of Fiscal Year 2023-24 Total</i>	<i>+ 88 AF* (forfeited for general benefit of the basin)</i>

\*In accordance with the 500-Foot Rule, there is no carry-over of unused water rights.

# AGENDA ITEM 10

TABLE 13. METER TESTING PROGRAM FOR 2023-2024

PARTY	OWNER DESIGNATION	TEST DATE	METER ERROR <sup>1/</sup>		SERIAL NUMBER	NOTES
Alhambra, City of	WELL NO. 2	-	-	-	-	Inactive
Arcadia, City of	ANOAKIA	-	-	-	-	Inactive
	CHAPMAN 6	-	-	-	-	Inactive
	CHAPMAN 7	-	-	-	-	Inactive
	COLORADO	5/7/2024	1.2%	Slow	200-90854-06	
	HUGO REID	-	-	-	-	Inactive
	ORANGE GROVE 1A	5/7/2024	1.5%	Slow	97-3802-12	
	ORANGE GROVE 2A	-	-	-	-	Out of service - Rehab
	ORANGE GROVE 5A	6/27/2024	1.4%	Slow	973800-08	
	ORANGE GROVE 6	5/7/2024	0.9%	Slow	20012209-12	
	RANCHO 6	-	-	-	-	Inactive
California-American Water Company	LAMANDA PARK	-	-	-	-	Destruction approved 4/19/17
	LOMBARDY	-	-	-	-	Out of service
	OAK KNOLL	-	-	-	-	Inactive
	OSWEGO	-	-	-	-	Inactive
	PATTON	-	-	-	-	Non-Operational
	WINSTON	-	-	-	-	PENDING
	WELL NO. 1	-	-	-	-	Inactive
	WELL NO. 7	-	-	-	-	Inactive
	WELL NO. 8	-	-	-	-	Inactive
H.E. Huntington Library & Art Gallery	CANYON	3/7/2024	1.3%	Slow	20023828-10	
	ORLANDO	-	-	-	-	Inactive
	ROSCOE MOSS	3/7/2024	0.1%	Fast	00-09437-06	Calibrated
	BUDDY MOSS	3/7/2024	2.0%	Slow	16-10192-08	
Kinnetoa Irrigation District	K-3	5/29/2024	0.0%	-	20013275-06	
	WAGNER	-	-	-	-	Inactive
	WILCOX	5/29/2024	1.0%	Slow	20170593-06	
La Canada Irrigation District	WELL NO. 1	-	-	-	-	Inactive
	WELL NO. 6	6/27/2023	1.3%	Slow	96-09359-08	NO TEST FY 23-24
Las Encinas Hospital	WELL NO. 1	6/26/2023	1.8%	Slow	8108124	NO TEST FY 23-24
Las Flores Water Company	WELL NO. 2	-	-	-	-	Inactive
Lincoln Avenue Water Company	WELL NO. 3	2/15/2024	0.4%	Fast	07-05308-10	
	WELL NO. 5	2/15/2024	0.5%	Slow	05-05107-10	
	WELL NO. 6	2/15/2024	0.3%	Slow	16-05947-12	

1/ Slow=Percent production meter is under recording

Fast=Percent production meter is over recording

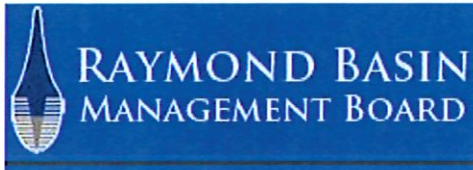
2/ Separate serial numbers for meter test tube (first serial number) and converter (second serial number).

3/ Waiver of meter test requirement granted due to inactivity related to water quality issues and/or mechanical failure

TABLE 13. METER TESTING PROGRAM FOR 2023-2024

PARTY	OWNER DESIGNATION	TEST DATE	METER ERROR <sup>1/</sup>		SERIAL NUMBER	NOTES
Pasadena Cemetery Association	WELL NO. 2-3 WELL NO. 4	6/26/2024	2.1%	Slow	12132	Inactive
Pasadena, City of	ARROYO	2/16/2024	0.1%	Fast	M148393810/M230683921	Non-Operational
	BANGHAM	-	-	-	-	Destruction approved 1/20/21
	COPELIN 3	-	-	-	-	NEW METER
	CRAIG	3/1/2024	0.7%	Fast	UP23-1412/E23-07787	Inactive
	EATON 51	-	-	-	-	Construction approved 10/20/21
	EXPLORER	-	-	-	-	Construction approved 10/21/20
	GARFIELD REPLMNT.	-	-	-	-	Inactive
	GROUNDS-INJECT.	-	-	-	-	Destruction approved 7/20/22
	JOURDAN	-	-	-	-	Destruction approved 1/15/20
	MONTE VISTA	-	-	-	-	
	NEW CHAPMAN	2/16/2024	0.8%	Slow	M099255005	
	NEW CHAPMAN - WASTE	2/16/2024	0.4%	Fast	20231246-12/E23-05998	NEW METER
	PASA 52	3/1/2024	0.1%	Fast	M148403810	
	SHELDON 1	-	-	-	-	Inactive
	SUNSET	3/1/2024	0.7%	Slow	974184-8	
	VENTURA	2/16/2024	0.1%	Fast	UP23-1411/E23-07786	NEW METER
	VILLA	-	-	-	-	Inactive
	WELL 58, TWOMBLY	2/16/2024	0.8%	Slow	M147603310	
	WELL 58, TWOMBLY - WASTE	2/16/2024	0.0%		20231247-12/E23-05999	NEW METER
	WELL 59, WADSWORTH	2/16/2024	0.2%	Fast	M237493023	
	W59, WADSWORTH - WASTE	2/16/2024	0.4%	Slow	20231248-12/E23-06000	NEW METER
	WINDSOR	-	-	-	-	Inactive
	WOODBURY	3/1/2024	1.3%	Slow	17887932	
Rubio Canon Land and Water Assoc.	WELL NO. 4	5/30/2024	1.0%	Slow	02-06275-08	
	WELL NO. 7	5/30/2024	1.4%	Slow	17-08135-12	
San Gabriel County Water District	VAN NUYS 3	-	-	-	-	Destruction approved 10/21/15
	WELL NO. 16	11/27/2023	1.9%	Fast	20111385-06	
Sierra Madre, City of	WELL NO. 3	5/14/2024	1.0%	Slow	3105-12	
	WELL NO. 4	5/14/2024	1.1%	Slow	1573-12	
	WELL NO. 5	5/14/2024	1.0%	Slow	1556-10	
	WELL NO. 6	5/14/2024	1.3%	Slow	1596-12	
Sunny Slope Water Company	WELL NO. 1	-	-	-	-	Inactive
	WELL NO. 6	-	-	-	-	Inactive
	WELL NO. 11	2/28/2024	0.4%	Fast	20201251-12	
	WELL NO. 12	2/28/2024	0.3%	Fast	20101500-12	
Valley Water Company	WELL NO. 1	-	-	-	912604-10	Inoperative
	WELL NO. 2	1/8/2024	3.0%	Fast	20010901-08	
	WELL NO. 3	1/4/2024	4.7%	Slow	934091-8	
	WELL NO. 4	1/8/2024	3.3%	Slow	201458-08	
1/ Slow=Percent production meter is under recording Fast=Percent production meter is over recording 2/ Separate serial numbers for meter test tube (first serial number) and converter (second serial number). 3/ Waiver of meter test requirement granted due to inactivity related to water quality issues and/or mechanical failure						

# AGENDA ITEM 11



July 17, 2024

REPORT OF THE ENGINEER ON HYDROLOGIC CONDITIONS

**MONK HILL SUBAREA**

➤ **Key Well** (see attached graph)

❖ **City of Pasadena Sheldon Well**

- Located in the Southeastern portion of the Monk Hill Subarea.
- On May 2, 2023, the Sheldon Well groundwater elevation was 932.9 feet.
- On May 20, 2024, the Sheldon Well groundwater elevation was 962.94 feet.
  - About 30 feet higher than one year ago.
  - About 8 feet higher than the prior quarter (March 2024).

❖ **Valley Water Company Well No. 2**

- Located in the Central portion of the Monk Hill Subarea.
- On May 31, 2023, Well No. 2 groundwater elevation was 880.7
- On May 31, 2024, Well No. 2 groundwater elevation was 898.7
  - About 18 feet higher than one year ago.
  - About 94 feet lower than the prior quarter (March 2024).

➤ **Rainfall** (see attached graph)

❖ **Descanso Gardens Station as of June 30, 2024** (see attached graph)

- Average rainfall from July 1<sup>st</sup> through June 30<sup>th</sup> of each year is about 21.92 inches
- Rainfall during July 1, 2023 through June 30, 2024 was 27.72 inches (126 percent of average)
- Rainfall for FY 2022-23 was about 40.84 inches (186 percent of average)

**Report of the Engineer on Hydrologic Conditions – July 17, 2024 (continued)**

- **Production** (Decreed Right – 7,489.0 AF; Reduced Right – 5,691.6 AF; Cooperative Pumping Reduction Plan effective July 1, 2023)

<u>FY 2022-2023</u>	<u>Quarterly</u>	<u>Accum.</u>
07/01/22 – 09/30/22	2,179 AF	2,179 AF
10/01/22 – 12/31/22	1,536 AF	3,715 AF
01/01/23 – 03/31/23	1,183 AF	4,898 AF
04/01/23 – 06/30/23	<u>1,588 AF</u>	6,486 AF
Total	6,486 AF	

<u>FY 2023-2024</u>	<u>Quarterly</u>	<u>Accum.</u>
07/01/23 – 09/30/23	2,288 AF	2,288 AF
10/01/23 – 12/31/23	1,676 AF	3,964 AF
01/01/24 – 03/31/24	1,243 AF	5,207 AF
04/01/24 – 06/30/24 <sup>2/</sup>	1,126 AF	6,333 AF

2/ Note: Data available through end of May 2024

- **Total Replenishment**

	<u>“Spread Credit”</u>	<u>General Benefit</u>	<u>Total Replenishment</u>
FY 2012-13:	856.9 AF	372.4 AF	1,229.3 AF
FY 2013-14:	289.6 AF	113.6 AF	403.2 AF
FY 2014-15:	327.9 AF	113.8 AF	441.7 AF
FY 2015-16:	454.1 AF	183.7 AF	637.8 AF
FY 2016-17:	831.0 AF	446.6 AF	1,277.6 AF
FY 2017-18:	640.9 AF	234.1 AF	875.0 AF
FY 2018-19:	1,865.6 AF	1,057.9 AF	2,923.5 AF
FY 2019-20:	1,684.7 AF	858.0 AF	2,542.7 AF
FY 2020-21:	435.7 AF	180.5 AF	616.2 AF
FY 2021-22:	819.4 AF	424.6 AF	1,244.0 AF
FY 2022-23:	3,673.6 AF	1,908.5 AF	5,582.1 AF
FY 2023-24:	-	-	5,781.2 AF <sup>3/</sup>

3/ Note: Preliminary (July 2023 – May 2024)

**PASADENA SUBAREA<sup>1/</sup>**

- **Key Wells** (see attached graph)

- ❖ **City of Pasadena Sunset Well**

- Located in the West Central portion of the Pasadena Subarea.
- On May 30, 2023, the Sunset Well groundwater elevation was 688.43 feet.



*Report of the Engineer on Hydrologic Conditions – July 17, 2024 (continued)*

- On May 22, 2024, the Sunset Well groundwater elevation was 648.43 feet.
  - About 40 feet lower than one year ago.
  - About 37 feet lower than the prior quarter (March 2024)
  
- ❖ California American Water Company Winston Well
  - Located in the East Central portion of the Pasadena Subarea.
  - On May 31, 2023, the Winston Well groundwater elevation was 411.6 feet.
  - On May 30, 2024, the Winston Well groundwater elevation was 422.6 feet.
    - About 11 feet higher from one year ago.
    - About two feet higher from the prior quarter (March 2024).
  
- ❖ California American Water Company Well No. 7
  - Located in the Southeast portion of the Pasadena Subarea.
  - On May 31, 2023, Well No. 7 groundwater elevation was 418.2 feet.
  - On May 30, 2024, Well No. 7 groundwater elevation was 429.2 feet.
    - About 11 feet higher from one year ago.
    - About three feet higher from the prior quarter (March 2024).
  
- **Rainfall** (see attached graphs)
  - ❖ Pasadena City Hall Station as of May 31, 2024 (see attached graph)
    - Average rainfall from July 1<sup>st</sup> through May 31<sup>th</sup> of each year is about 19.89 inches
    - Rainfall during July 1, 2023 through May 31, 2024 was 30.31 inches (152 percent of average)
    - Rainfall for FY 2022-23 was about 20.03 inches (215 percent of average)
  
  - ❖ Altadena-Rubio Canyon Station as of May 31, 2024 (see attached graph)
    - Average rainfall from July 1<sup>st</sup> through May 31<sup>st</sup> of each year is about 21.23 inches
    - Rainfall during July 1, 2023 through May 31, 2024 was 30.52 inches (144 percent of average)
    - Rainfall for FY 2022-23 was about 36.04 inches (168 percent of average)

**Report of the Engineer on Hydrologic Conditions – July 17, 2024 (continued)**

- **Production** (Decreed Right – 17,843.0 AF; Reduced Right – 12,490.1 AF) (see attached graph)

<u>FY 2022-2023</u>	<u>Quarterly</u>	<u>Accum.</u>
07/01/22 – 09/30/22	3,210 AF	3,210 AF
10/01/22 – 12/31/22	2,364 AF	5,574 AF
01/01/23 – 03/31/23	1,834 AF	7,408 AF
04/01/23 – 06/30/23	<u>1,628 AF</u>	9,036 AF
Total	9,036 AF	

<u>FY 2023-2024</u>	<u>Quarterly</u>	<u>Accum.</u>
07/01/23 – 09/30/23	3,298 AF	3,298 AF
10/01/23 – 12/31/23	3,064 AF	6,362 AF
01/01/24 – 03/31/24	1,866 AF	8,228 AF
04/01/24 – 06/30/24 <sup>4/</sup>	1,330 AF	9,558 AF

4/ Note: Data available through end of May 2024

- **Total Replenishment**

	<u>“Spread Credit”</u>	<u>General Benefit</u>	<u>Total Replenishment</u>
FY 2011-12:	548.8 AF	175.4 AF	724.2 AF
FY 2012-13:	342.1 AF	85.5 AF	427.6 AF
FY 2013-14:	331.4 AF	144.5 AF	475.9 AF
FY 2014-15:	193.4 AF	87.5 AF	280.9 AF
FY 2015-16:	250.1 AF	76.5 AF	326.6 AF
FY 2016-17:	471.2 AF	811.9 AF	1,283.1 AF
FY 2017-18:	266.1 AF	84.5 AF	350.6 AF
FY 2018-19:	644.1 AF	161.0 AF	805.1 AF
FY 2019-20:	1,035.1 AF	258.9 AF	1,294.0 AF
FY 2020-21:	620.9 AF	155.3 AF	776.2 AF
FY 2021-22:	618.7 AF	154.7 AF	773.4 AF
FY 2022-23:	5,521 AF	282 AF	5,803 AF
FY 2023-24:	-	-	4,134 AF <sup>5/</sup>

5/ Note: Preliminary (July 2023 – May 2024)

**SANTA ANITA SUBAREA<sup>1/</sup>**

- **Key Well** (City of Arcadia Orange Grove No. 1A Well, see attached graph)

- ❖ On May 3, 2023, the Orange Grove 1A Well groundwater elevation was 426.35 feet.
- ❖ On May 8, 2024, the Orange Grove 1A Well groundwater elevation was 494.35 feet.
  - About 68 feet higher than one year ago.
  - About five feet higher than the prior quarter (March 2024).



Report of the Engineer on Hydrologic Conditions – July 17, 2024 (continued)

➤ **Rainfall** (see attached graph)

- ❖ Sierra Madre Dam Station as of June 30, 2024 (see attached graph)
  - Average rainfall from July 1<sup>st</sup> through June 30<sup>th</sup> of each year is about 24.69 inches
  - Rainfall during July 1, 2023 through June 30, 2024 was 37.10 inches (150 percent of average)
  - Rainfall for FY 2022-23 was about 48.66 inches (197 percent of average)

➤ **Production** (Decreed Right – 5,290.0 AF; Reduced Right – 3,261 AF; Sierra Madre converted to MWD supply in October 2013)

<u>FY 2022-2023</u>	<u>Quarterly</u>	<u>Accum.</u>
07/01/22 – 09/30/22	1,017 AF	1,017 AF
10/01/22 – 12/31/22	723 AF	1,740 AF
01/01/23 – 03/31/23	701 AF	2,441 AF
04/01/23 – 06/30/23	<u>1,283 AF</u>	3,724 AF
Total	3,724 AF	

<u>FY 2023-2024</u>	<u>Quarterly</u>	<u>Accum.</u>
07/01/23 – 09/30/23	1,774 AF	1,774 AF
10/01/23 – 12/31/23	1,014 AF	2,788 AF
01/01/24 – 03/31/24	493 AF	3,281 AF
04/01/24 – 06/30/24 <sup>6/</sup>	579 AF	3,860 AF

6/ Note: Data available through end of May 2024

➤ **Total Replenishment**

	<u>“Water Stored”</u>	<u>General Benefit</u>	<u>Total Replenishment</u>
FY 2011-12:	639.5 AF	837.2 AF	1,476.7 AF
FY 2012-13:	201.2 AF	242.6 AF	443.8 AF
FY 2013-14:	259.2 AF	200.5 AF	459.7 AF
FY 2014-15:	247.9 AF	167.0 AF	414.9 AF
FY 2015-16:	1,433.9 AF	319.1 AF	1,753 AF <sup>7/</sup>
FY 2016-17:	2,570.9 AF	679 AF	3,250 AF <sup>8/</sup>
FY 2017-18:	1,706.1 AF	582 AF	2,275 AF <sup>9/</sup>
FY 2018-19:	2,575.7 AF	1,133 AF	3,709 AF <sup>10/</sup>
FY 2019-20:	2,724.7 AF	1,094 AF	3,819 AF <sup>11/</sup>
FY 2020-21:	1,856.6 AF	221.6 AF	2,078 AF <sup>12/</sup>
FY 2021-22:	1,850.0 AF	392.9 AF	2,243 AF <sup>13/</sup>
FY 2022-23:	1,616.8 AF	1,719.2 AF	3,336 AF <sup>14/</sup>
FY 2023-24:	-	-	2,375 AF <sup>15/</sup>

*Report of the Engineer on Hydrologic Conditions – July 17, 2024 (continued)*

7/ Note: Includes 1,020 AF of Imported Water

8/ Note: Includes 1,617 AF of Imported Water

9/ Note: Includes 1,340 AF of Imported Water

10/ Note: Includes 1,016 AF of Imported Water

11/ Note: Includes 1,729 AF of Imported Water

12/ Note: Includes 1,546 AF of Imported Water

13/ Note: Includes 1,525 AF of Imported Water

14/ Note: Includes 1,150 AF of Imported Water

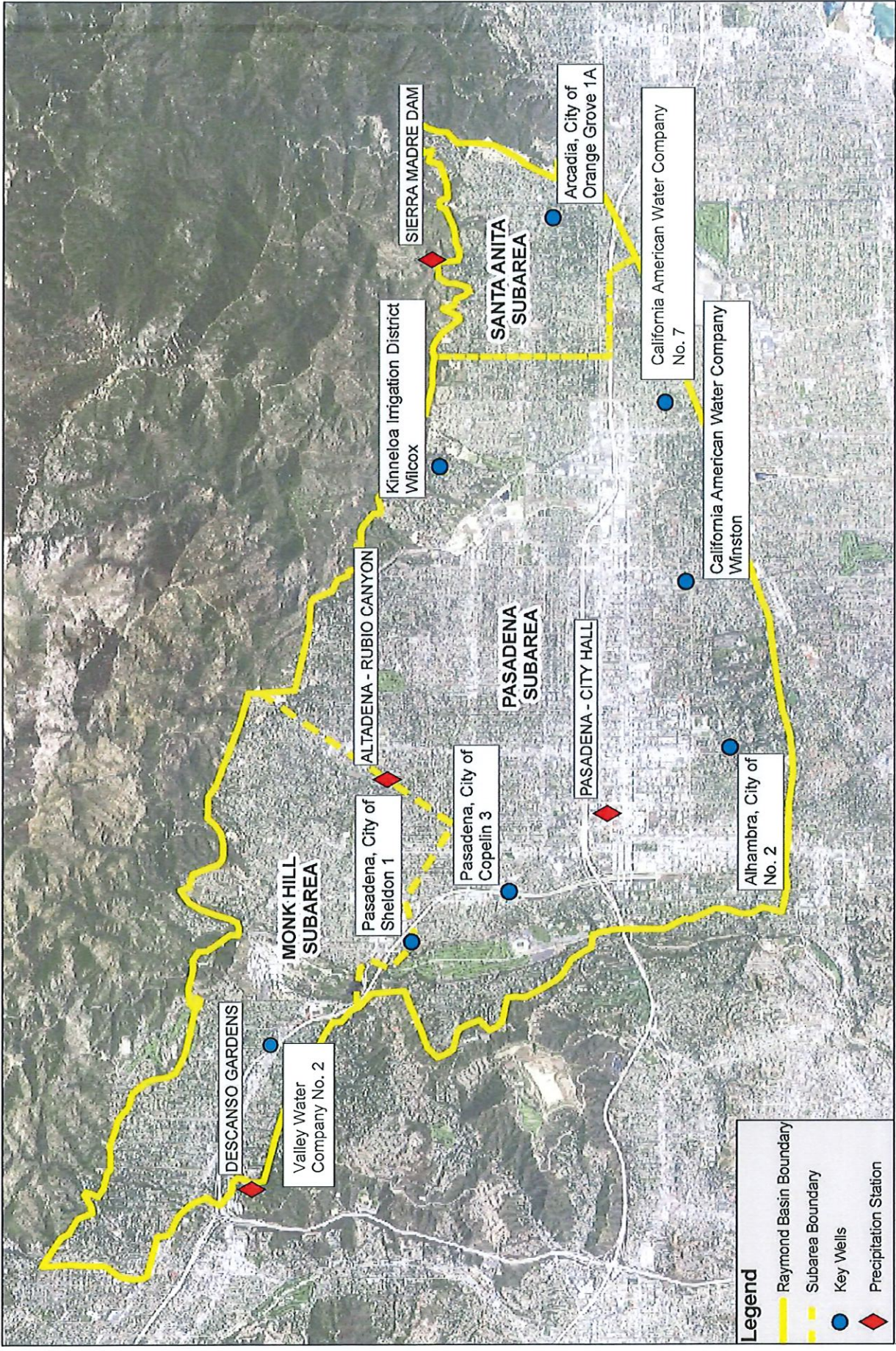
15/ Note: Preliminary Total Diverted (July 2023 – May 2024). Includes 1,135 AF of Imported Water

NOTE:

1/ Key Wells partially based on information shown on Figure 9 of RBMB Annual Reports. Rainfall stations selected based on information shown on Figure 2 of RBMB Annual Reports.

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**Legend**

- Raymond Basin Boundary
- Subarea Boundary
- Key Wells
- Precipitation Station

STETSON  
ENGINEERS, INC.

0 0.75 1.5 Miles

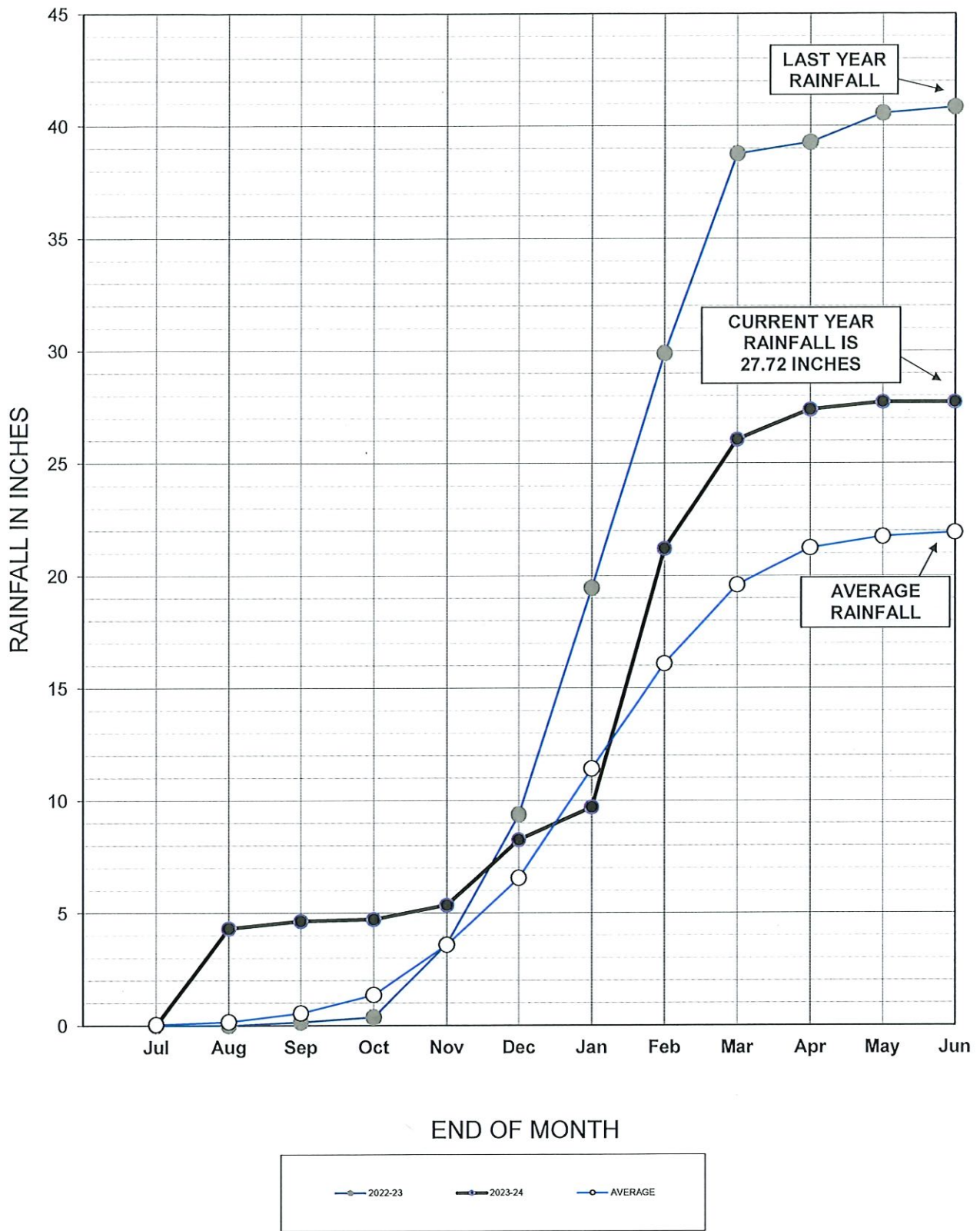
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**RAYMOND BASIN MANAGEMENT BOARD**

**LOCATION OF "KEY" WELLS AND PRECIPITATION STATIONS**



**MONK HILL SUBAREA  
(KEY WELL GRAPH AND  
PRECIPITATION GRAPH)**

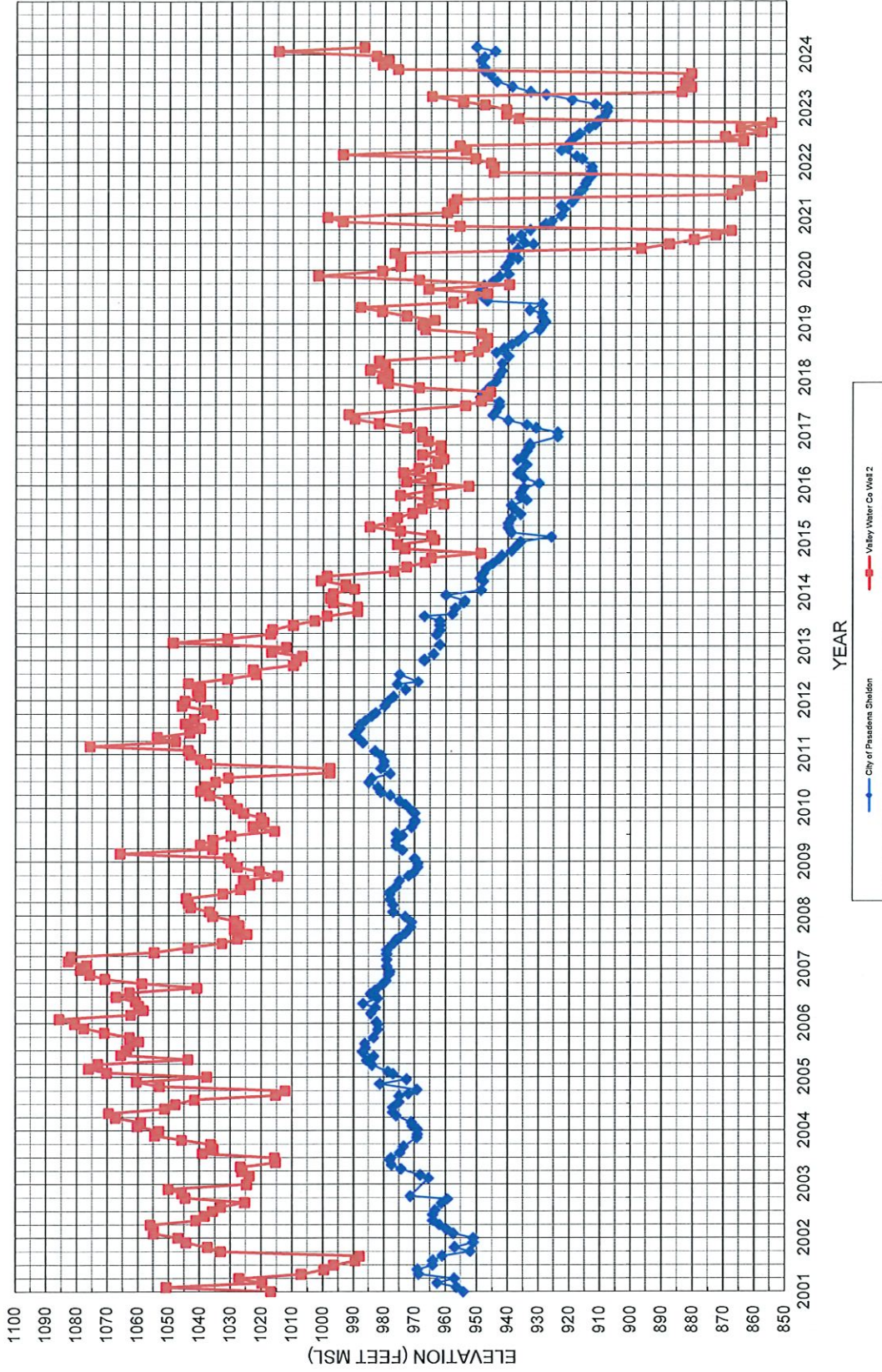


**STETSON ENGINEERS INC.**  
 Covina San Rafael Mesa, Arizona  
 WATER RESOURCE ENGINEERS

**RAYMOND BASIN MANAGEMENT BOARD**

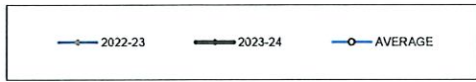
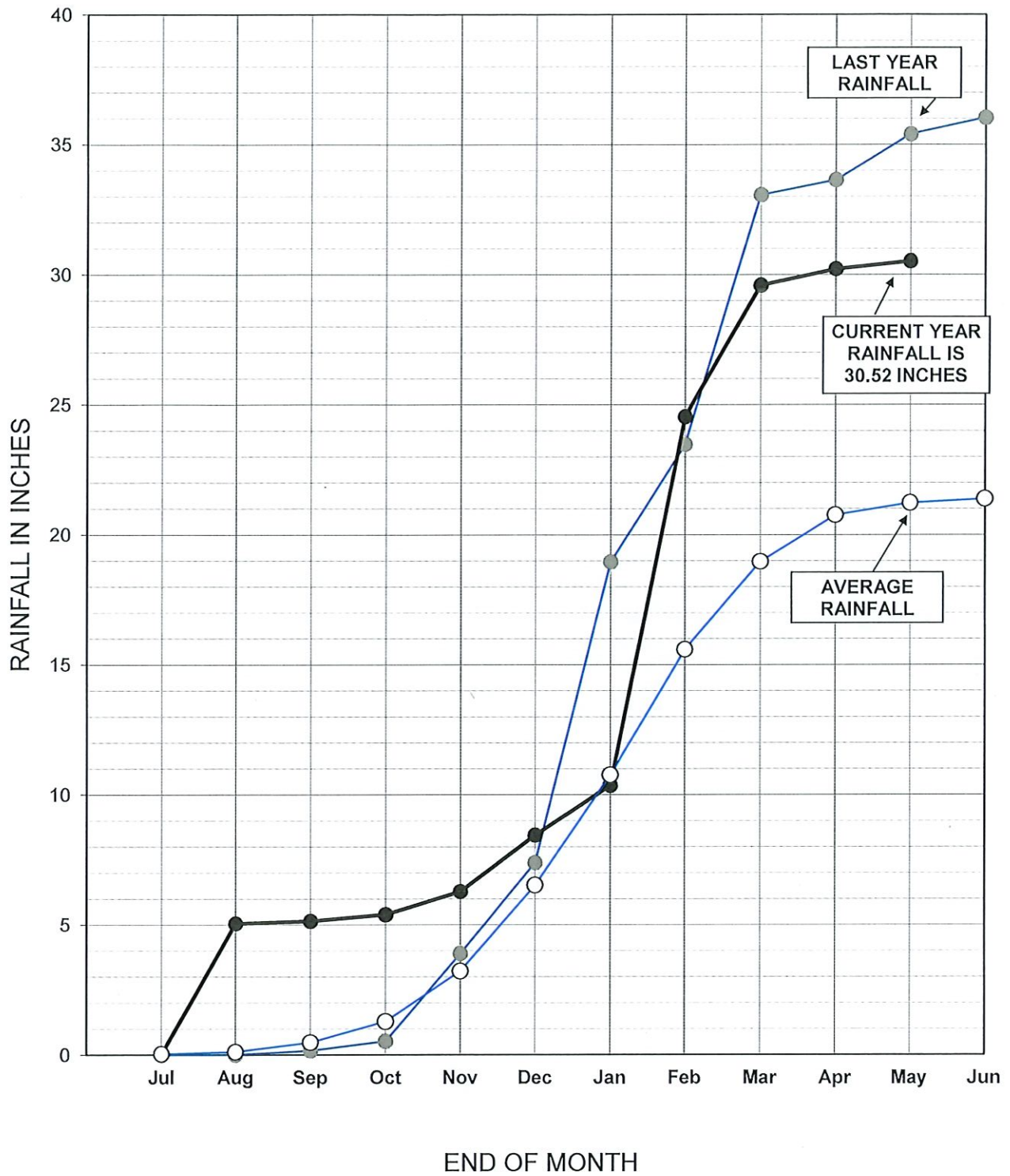
**ACCUMULATED RAINFALL  
 AT DESCANSO GARDENS (STATION NO. 1071B)**

# GROUNDWATER ELEVATION IN MONK HILL SUBAREA





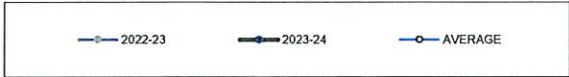
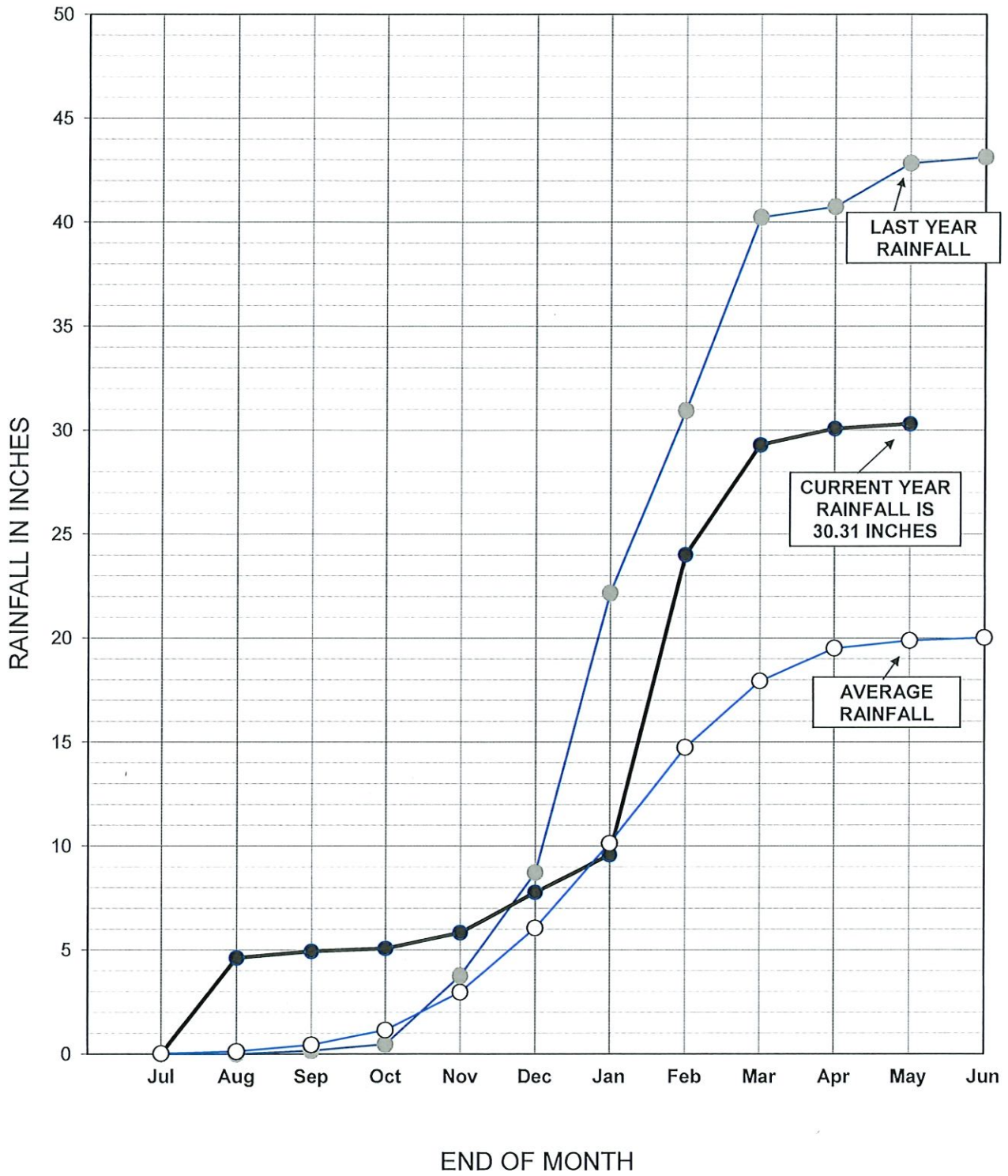
**PASADENA SUBAREA  
(KEY WELL GRAPH AND  
PRECIPITATION GRAPHS)**



**STETSON ENGINEERS INC.**  
 Covina San Rafael Mesa, Arizona  
 WATER RESOURCE ENGINEERS

**RAYMOND BASIN MANAGEMENT BOARD**

**ACCUMULATED RAINFALL  
 AT ALTADENA-RUBIO CANYON (STATION NO. 176)**



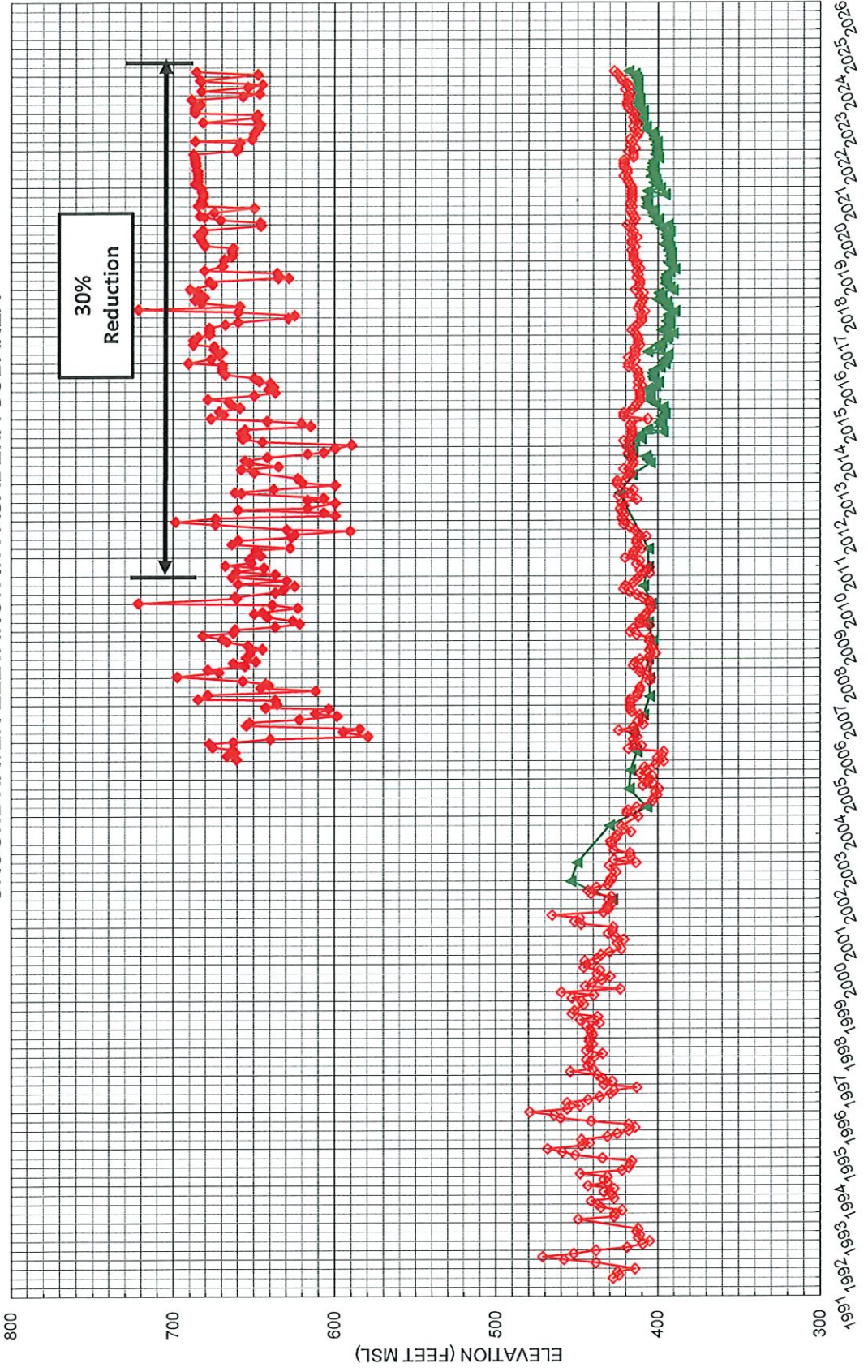
**STETSON ENGINEERS INC.**  
Covina San Rafael Mesa, Arizona  
WATER RESOURCE ENGINEERS

**RAYMOND BASIN MANAGEMENT BOARD**

**ACCUMULATED RAINFALL  
AT PASADENA CITY HALL (STATION NO. 610B)**



# GROUNDWATER ELEVATION IN PASADENA SUBAREA



YEAR

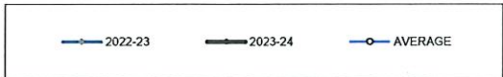
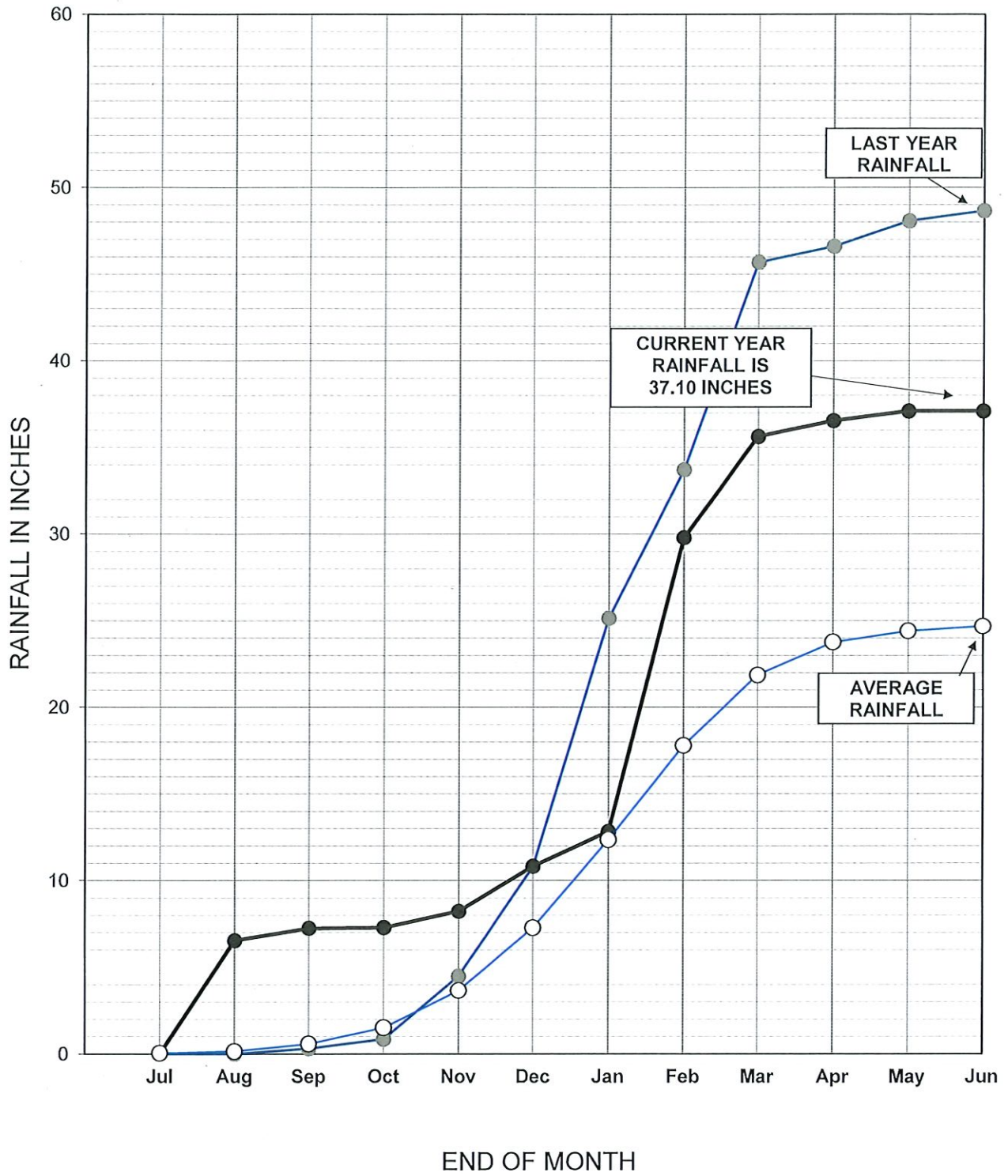
California American Water Co. (formerly East Pasadena Water Co.) Well No. 7

California American Water Co. Winston

City of Pasadena Sunset

**SANTA ANITA SUBAREA  
(KEY WELL GRAPH AND  
PRECIPITATION GRAPH)**



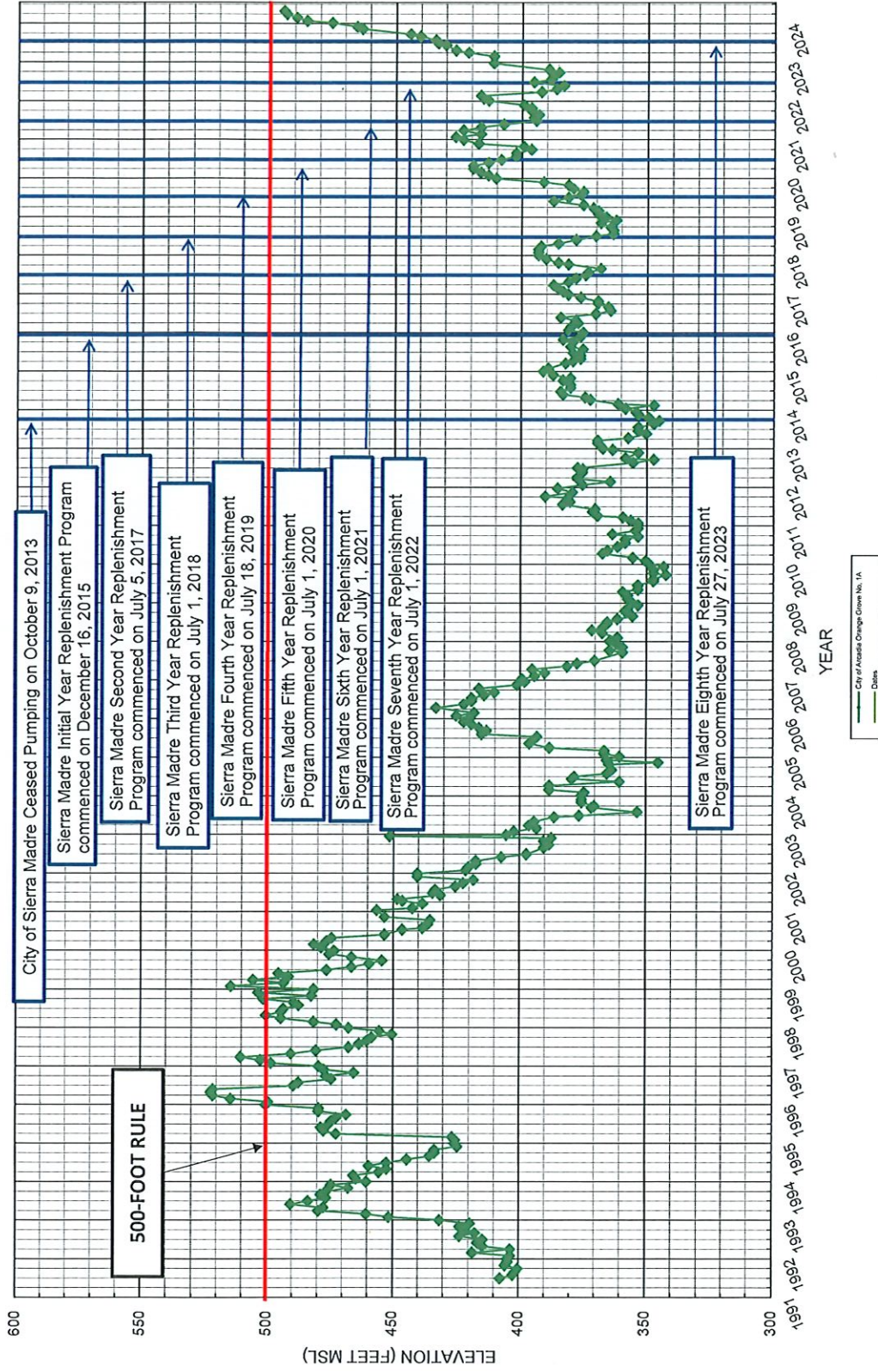


**STETSON ENGINEERS INC.**  
 Covina San Rafael Mesa, Arizona  
 WATER RESOURCE ENGINEERS

RAYMOND BASIN MANAGEMENT BOARD

ACCUMULATED RAINFALL  
 AT SIERRA MADRE DAM (STATION NO. 144)

# GROUNDWATER ELEVATION IN SANTA ANITA SUBAREA



# AGENDA ITEM 12





RAYMOND BASIN  
MANAGEMENT BOARD

## STAFF REPORT

**TO:** Board of Directors  
**FROM:** Kelly Gardner, Executive Officer  
**RE:** Outside Activities  
**DATE:** July 11, 2024

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This report is intended to provide the Board with a “snapshot” of activities staff is engaged in as part of, and in addition to daily operations on behalf of the Raymond Basin Management Board.

On Monday, April 15, 2024, attended the Safe, Clean Water Program’s Rio Hondo Watershed Area Steering Committee meeting focused on the current funding round and project scoring.

On Monday, April 29, 2024, attended a meet and greet event with Los Angeles County’s Supervisor Lindsey Horvath. Following that event, participated in the County’s Water Resiliency Summit. County staff and other speakers discussed the benefits of the County’s Water Plan to the region.

From Monday, May 6, 2024, through Thursday, May 9, 2024, attended the Association of California Water Agency’s (ACWA’s) semi-annual conference in Sacramento. While there, also participated in the ACWA Joint Powers Insurance Agency’s membership meeting.

Tuesday, May 14, 2024, attended an individual Bimonthly Coordination meeting with County staff to discuss ongoing issues.

On Thursday, May 16, 2024, participated in the Upper San Gabriel and Rio Hondo IRWM Steering Committee meeting.

On Wednesday, May 22, 2024, participated in the IRWM Leadership Committee meeting.

On Thursday, May 30, 2024, attended a meeting of the California Groundwater Coalition’s Legislative group.

On Monday, June 17, 2024, met with County staff to discuss concerns of algae growth in County water conservation facilities.

On Tuesday, June 25, 2024, staff participated in a pre-bid job walk at the project site for the Washington Park Monitoring Well Construction project.

# AGENDA ITEM 13

DRAFT

**APPENDIX D**  
**RAYMOND BASIN GROUNDWATER PRODUCTION SUMMARY**  
**JULY 2023-JUNE 2024**  
 (acre-feet)

PARTY NAME	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD (AF)
Menk Hill Basin	0.0	0.0	0.4	0.0	0.0	0.3	0.0	0.2	0.5	0.0	0.0	0.0	1.4
La Canada Irrigation District	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
Las Flores Water Company	155.3	161.1	150.9	138.3	128.2	104.8	75.0	76.5	92.1	79.1	94.7	94.7	1256.0
Lincoln Avenue Water Company	8.7	5.2	5.2	7.3	5.4	2.3	1.5	0.6	0.6	0.3	2.3	2.3	34.2
Pasadena Cemetery Association	238.5	300.8	224.0	251.0	302.8	321.7	238.4	223.1	267.3	274.2	344.5	344.5	2986.3
Pasadena, City of	208.1	176.9	147.7	151.7	141.0	116.5	95.3	68.3	82.5	98.9	135.3	135.3	1420.1
Rubio Canon Land & Water Assoc.	181.2	165.3	163.9	2.7	1.2	0.7	0.3	20.6	0.4	1.1	97.9	20.6	635.3
Valley Water Company	791.8	804.1	692.1	551.0	578.6	546.3	410.5	389.3	443.4	451.5	674.7	0.0	6333.3
<b>Subtotals</b>	<b>689.8</b>	<b>782.5</b>	<b>706.5</b>	<b>627.1</b>	<b>511.7</b>	<b>396.8</b>	<b>322.1</b>	<b>390.7</b>	<b>470.6</b>	<b>534.6</b>	<b>416.1</b>	<b>537.2</b>	<b>6465.7</b>
<i>Prior Year</i>													

PARTY NAME	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD (AF)
Pasadena Sub-w/30% Reduction	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
Alhambra, City of	62.2	55.5	0.0	0.0	4.5	6.0	3.6	4.8	0.7	26.9	56.2	0.0	220.4
Arcadia, City of	177.3	219.1	175.4	171.5	216.4	107.4	105.2	116.4	51.5	0.0	0.0	0.0	1,340.2
California-American Water Co.	35.2	18.9	25.8	17.3	21.1	12.9	2.5	1.2	4.5	6.4	21.2	0.0	167.0
Huntington Library & Art Gallery	35.3	30.0	27.8	31.6	43.4	43.4	34.6	22.8	31.5	31.2	24.8	0.0	344.7
Kinneloa Irrigation District	466.6	738.0	732.4	742.9	670.6	493.4	341.9	396.9	386.5	355.6	522.5	0.0	5,847.3
Pasadena, City of	77.4	66.0	75.9	77.3	75.7	64.3	50.9	40.1	51.5	56.3	52.9	0.0	688.3
San Gabriel County Water Dist.	105.4	89.3	85.1	100.8	90.3	84.8	76.7	66.0	75.9	82.3	93.8	0.0	950.4
Sunny Slopes Water Company	959.4	1,216.8	1,122.4	1,141.4	1,110.3	812.2	615.4	648.2	602.1	556.7	771.4	0.0	9,558.3
<b>Subtotals</b>	<b>983.2</b>	<b>946.6</b>	<b>1,273.8</b>	<b>947.8</b>	<b>723.5</b>	<b>693.1</b>	<b>634.0</b>	<b>565.0</b>	<b>633.1</b>	<b>633.1</b>	<b>447.5</b>	<b>547.4</b>	<b>9036.1</b>
<i>Prior Year</i>													

Western Unit Totals	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD (AF)
<i>Prior Year</i>	1,751.2	2,020.9	1,814.5	1,692.4	1,688.9	1,358.5	1,025.9	1,037.5	1,045.5	1,010.2	1,446.1	0.0	15,891.6
<b>Subtotals</b>	<b>1,673.0</b>	<b>1,729.1</b>	<b>1,966.3</b>	<b>1,574.9</b>	<b>1,235.2</b>	<b>1,089.9</b>	<b>956.1</b>	<b>955.7</b>	<b>1,105.9</b>	<b>1,267.7</b>	<b>863.6</b>	<b>1,054.6</b>	<b>15,527.8</b>

Subtotals	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD (AF)
Santa Anita Subarea	384.7	346.9	379.0	361.3	52.7	11.1	20.3	2.0	84.4	124.3	132.3	0.0	1,921.0
Arcadia, City of	233.7	223.0	204.3	203.6	187.2	177.9	143.6	106.3	136.3	142.1	181.0	0.0	1,999.0
Sierra Madre, City of	616.4	571.9	563.3	584.9	239.9	189.0	153.9	108.3	220.7	266.4	313.3	0.0	3,860.0
<b>Subtotals</b>	<b>227.9</b>	<b>297.9</b>	<b>492.1</b>	<b>397.5</b>	<b>170.6</b>	<b>154.5</b>	<b>121.7</b>	<b>292.0</b>	<b>286.9</b>	<b>266.5</b>	<b>484.2</b>	<b>542.4</b>	<b>3723.5</b>
<i>Prior Year</i>													

RAYMOND BASIN TOTALS	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD (AF)
<i>Prior Year</i>	2,369.6	2,592.8	2,397.8	2,277.3	1,928.8	1,547.5	1,189.8	1,145.8	1,266.2	1,276.6	1,759.4	0.0	19,751.6
<b>Subtotals</b>	<b>1,900.2</b>	<b>2,027.0</b>	<b>2,478.4</b>	<b>1,972.4</b>	<b>1,405.8</b>	<b>1,244.4</b>	<b>1,077.7</b>	<b>1,247.7</b>	<b>1,392.7</b>	<b>1,594.2</b>	<b>1,347.8</b>	<b>1,627.0</b>	<b>19,245.3</b>

IMPORTED WATER SPREAD / INJECTIONS (July 23 to June 24)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD (AF)
Valley Water Company	0.0	0.0	0.0	0.0	0.0	0.0	46.6	35.0	0.0	0.0	0.0	0.0	81.6
Lincoln Avenue Water Company	0.0	0.0	0.0	0.0	0.0	0.0	114.0	0.0	0.0	0.0	0.0	0.0	114.0
City of Sierra Madre	30.1	222.9	0.0	0.0	246.8	336.1	296.8	0.0	0.0	0.0	0.0	0.0	1,134.7
If Water injected by Valley Water Company on behalf of Lincoln Avenue Water Company and certified by Foothill Municipal Water District.													

**TABLE 10. TRANSFERS OR LEASES OF DECREED RIGHT  
(acre-feet)**

Lease No.	Lease Date	Leasor	Lessee	Acre-Feet
LFWC-LAWC-011724a	11/30/2023	Las Flores W.C.	Lincoln Avenue W.C.	70.0
LFWC-LAWC-011724b	1/9/2024	Las Flores W.C.	Lincoln Avenue W.C.	75.0
LFWC-RCLWA-041724	3/5/2024	Las Flores W.C.	Rubio Canon Land & Water Assoc.	2.1
PAS-VWC-071724	5/9/2024	City of Pasadena	Valley W.C.	26.2
PAS-LAWC-071724	5/21/2024	City of Pasadena	Lincoln Avenue W.C.	251.0
LFWC-LAWC-071724	5/31/2024	Las Flores W.C.	Lincoln Avenue W.C.	17.0
LCID-LAWC-071724	6/17/2024	La Canada Irrigation District	Lincoln Avenue W.C.	46.0

**LONG TERM STORAGE SPACE EXCHANGES  
(acre-feet)**

Lease No.	Leasor	Lessee	Lease Period	Acre-Feet
<u>Pasadena Subarea</u>				
<u>Monk Hill Subarea</u>				

Post to DL & Sage OE ✓



MALIA M. COHEN

California State Controller

LOCAL AGENCY INVESTMENT FUND  
REMITTANCE ADVICE

Agency Name

RAYMOND BASIN MANAGEMENT BD

Account Number

90-19-027

As of 04/15/2024, your Local Agency Investment Fund account has been directly credited with the interest earned on your deposits for the quarter ending 03/31/2024.

Earnings Ratio		.00011755619077389 ✓
Interest Rate		4.30% ✓
Dollar Day Total	\$	365,941,544.65 ✓
Quarter End Principal Balance	\$	3,770,351.94 ✓
Quarterly Interest Earned	\$	43,018.69 ✓

Handwritten initials and checkmarks

**RAYMOND BASIN MANAGEMENT BOARD  
LAIF INTEREST  
FOR QUARTER ENDING MARCH 31, 2024  
INTEREST RATE 4.30%  
(Earnings Ratio 0.00011755619077389)**

BALANCE	DAYS	DOLLAR DAY TOTAL	INTEREST
<b>ADMIN</b>			
4,567,489.95	11	50,242,389.45	
4,614,351.94	5	23,071,759.70	
3,940,351.94	43	169,435,133.42	
3,891,351.94	21	81,718,390.74	
3,770,351.94	11	41,473,871.34	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
	91	365,941,544.65	\$43,018.69
<b>FWC</b>			
0.00	0	0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
		0.00	
	0	0.00	\$0.00
<b>Total</b>		<b>365,941,544.65</b>	<b>\$43,018.69</b>

Earnings Ratio = Rate divided by 100, divided by 365 days.  
Interest = Dollar Day Total x Earnings Ratio.

# California State Treasurer *Fiona Ma, CPA*



Local Agency Investment Fund  
P.O. Box 942809  
Sacramento, CA 94209-0001  
(916) 653-3001

May 10, 2024

[LAIF Home](#)  
[PMIA Average Monthly Yields](#)

## RAYMOND BASIN MANAGEMENT BOARD

CONTROLLER  
725 N. AZUSA AVENUE  
AZUSA, CA 91702

### Tran Type Definitions

Account Number: 90-19-027

### April 2024 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Web Confirm Number	Authorized Caller	Amount
4/15/2024	4/12/2024	QRD	1751438	N/A	SYSTEM	43,018.69 ✓
4/17/2024	4/17/2024	RW	1752357	1712783	LUPE ARTIS	-64,000.00 ✓

### Account Summary

Total Deposit:	43,018.69 ✓	Beginning Balance:	3,770,351.94 ✓
Total Withdrawal:	-64,000.00 ✓	Ending Balance:	3,749,370.63 ✓

*jm* ✓

# California State Treasurer *Fiona Ma, CPA*



Local Agency Investment Fund  
P.O. Box 942809  
Sacramento, CA 94209-0001  
(916) 653-3001

June 12, 2024

LAIF Home  
PMIA Average Monthly  
Yields

## RAYMOND BASIN MANAGEMENT BOARD

CONTROLLER  
725 N. AZUSA AVENUE  
AZUSA, CA 91702

### Tran Type Definitions

Account Number: 90-19-027

May 2024 Statement

### Account Summary

Total Deposit:	0.00 ✓	Beginning Balance:	3,749,370.63 ✓
0.00 ✓ Ending Total Withdrawal:	3,749,370.63 ✓	0.00 ✓ Ending Balance:	3,749,370.63 ✓

*Jm*



# California State Treasurer *Fiona Ma, CPA*



## Local Agency Investment Fund

P.O. Box 942809  
Sacramento, CA 94209-0001  
(916) 653-3001

July 09, 2024

LAIF Home  
PMIA Average Monthly  
Yields

## RAYMOND BASIN MANAGEMENT BOARD

CONTROLLER  
725 N. AZUSA AVENUE  
AZUSA, CA 91702

### Tran Type Definitions

Account Number: 90-19-027

## June 2024 Statement

Transaction Number	Effective Date	Transaction Date	Tran Type	Confirm Number	Web Confirm Number	Authorized Caller	Amount
1714395	6/10/2024	6/10/2024	RD	1714395	1714395	LUPE ARTIS	1,400,000.00
1714702	6/19/2024	6/19/2024	RW	1714702	1714702	LUPE ARTIS	-30,000.00

### Account Summary

Total Deposit:	1,400,000.00	Beginning Balance:	3,749,370.63
Total Withdrawal:	-30,000.00	Ending Balance:	5,119,370.63

✓  
*Jo*