



**BOARD OF COMMISSIONERS  
MEETING AGENDA**

Rowland Water District  
3021 S. Fullerton Road  
Rowland Heights, CA 91748

**Thursday, February 6, 2025  
8:00 A.M.**

Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance, to take action on any item.

Materials related to an item on this agenda submitted after distribution of the agenda packet are available for public review at <https://puentebasin.com/board-packets/> or during regular business hours at the Walnut Valley Water District office, located at 271 S. Brea Canyon Road, Walnut, California.

- |    |   |             |
|----|---|-------------|
| 1. | Call to Order   | Chair Lewis |
| 2. | Flag Salute   | Chair Lewis |
| 3. | Roll Call   | Ms. Fleming |
|    | Chairman Lewis _____ Vice-Chairman Woo _____  |             |
|    | Commissioner Lima _____ Commissioner Lee _____  |             |
| 4. | Public Comment<br>The Chair may impose reasonable limitations on public comments to assure an orderly and timely meeting.                                     | Chair Lewis |
| 5. | <a href="#">Approval of Minutes for December 12, 2024</a><br>(1) Discussion (2) Action Taken  | Chair Lewis |
| 6. | <a href="#">Approval of Revision for October 3, 2024 Minutes</a><br>(1) Discussion (2) Action Taken   | Chair Lewis |
| 7. | <a href="#">Review of Financial Statements: Second Quarter FY 24-25</a><br>(1) Discussion (2) Action Taken  | Ms. Malner  |
| 8. | <a href="#">Receive and File Rowland and Walnut Valley Water Districts' 2025 PBWA Board Member Appointment Resolutions</a><br>(1) Discussion (2) Action Taken | Mr. Coleman |

- |     |   |             |
|-----|---|-------------|
| 9.  | <a href="#">Annual Selection of Commission Officers and Commission Staff</a>  | Mr. Coleman |
|     | (1) Discussion (2) Action Taken   |             |
| 10. | PBWA Legislative Activities   |             |
|     | A. <a href="#">PBWA 2025-26 Legislative Contract</a>  | Mr. Coleman |
|     | (1) Discussion (2) Action Taken   |             |
|     | B. CA Water for All Campaign Update   | Mr. Coleman |
| 11. | Regional Water Supply Reliability Program   | Mr. Coleman |
|     | A. Puente Basin Groundwater Management Plan   | Ms. Shaw    |
|     | B. California Domestic Water Company  | Mr. Coleman |
|     | C. Central Basin  | Mr. Coleman |
|     | D. Pomona Basin Regional Groundwater Project  | Ms. Shaw    |
|     | i. Six Basins Groundwater Project Update  |             |
|     | ii. Proposition 84 Grant  |             |
|     | E. Regional Water Supply Reliability Program Update   | Ms. Shaw    |
|     | F. Advanced Water Treatment Facility  | Ms. Shaw    |
|     | i. <a href="#">Technical Memo: Advanced Water Treatment Facility (AWTF) Preliminary Sizing and Concept Evaluation</a> |             |
|     | (1) Discussion (2) Action Taken   |             |
| 12. | Attorney's Report   | Mr. Ciampa  |
| 13. | Commissioner Comments   | Chair       |
| 14. | Items for Future Discussion/Review  | Chair       |
| 15. | Adjournment   |             |

*Next Commission Meeting: Thursday, April 3, 2025, 8:00 a.m., at Walnut Valley Water District.*

**MINUTES OF MEETING  
OF THE BOARD OF COMMISSIONERS OF  
PUENTE BASIN WATER AGENCY**

**December 12, 2024  
At the Offices of the  
Walnut Valley Water District**

**COMMISSIONERS PRESENT:**

Robert Lewis, Commissioner  
Anthony Lima, Commissioner  
Henry Woo, Commissioner  
Theresa Lee, Commissioner

**STAFF PRESENT:**

Jared Macias, Administrative Officer  
Myra Malner, Treasurer  
Josh Byerrum, Assistant Treasurer  
Jim Ciampa, Legal Counsel (Via Zoom)  
Carmen Fleming, Secretary

Staff, guests and others in attendance: Mr. Chris Brown, C.J. Brown & Company CPA's (via Zoom); Ms. Gabby Palomares, and Mr. Tom Coleman, Rowland Water District; Ms. Sherry Shaw, Lucie Cazares, and Mr. Tom Monk, Walnut Valley Water District.

The meeting was called to order at 8:00 a.m. with Chair Lewis presiding.

**Item 4: Public Comment**

None.

**Item 5: 2023-24 Audited Financial Statements – Prepared by Fedak & Brown**

Mr. Chris Brown, representative of C.J. Brown and Company CPAs, joined the meeting via teleconference and presented the 2023-24 Audited Financial Statements as prepared by his firm. Upon conclusion of Mr. Brown's presentation, he reported the financial statements of the Puente Basin Water Agency presented fairly in all material respects, the respective financial position of the business type activities, as of June 30, 2024 and 2023, and the respective changes in financial position, and cash flows thereof for the years then ended were in accordance with accounting principles generally accepted.

***Upon consideration thereof, it was moved by Commissioner Lima, seconded by Commissioner Lee, and unanimously carried (4-0) to approve and file the 2023-24 Puente Basin Water Agency Audited Financial Statements.***

**Chair Lewis indicated that the motion was approved by a 4-0 vote**

**Item 6: Approval of Minutes for October 3, 2024**

***Upon consideration thereof, it was moved by Commissioner Lima, seconded by Commissioner Lee, and unanimously carried (4-0) to approve the minutes of the Commission meeting held on October 3, 2024.***

**Chair Lewis indicated that the motion was approved by a 4-0 vote**

**Item 7: PBWA's Proposed 2025 Meeting Schedule and Approval of Resolution No. 12-24-035 Noting Same**

***Upon consideration thereof, it was moved by Commissioner Lima, seconded by Commissioner Woo, and unanimously carried (4-0) by the roll call vote noted below, to adopt PBWA Resolution No. 12-24-035, Adopting the 2025 PBWA Meeting Schedule:***

**Ayes:** Robert Lewis, Theresa Lee, Anthony J. Lima, Henry Woo  
**Noes:** None  
**Absent:** None  
**Abstain:** None

**Chair Lewis indicated that PBWA Resolution No. 12-24-035 was approved by a 4-0 roll call vote**

**Item 8: Review of Financial Statements: First Quarter FY 24-25**

- ◆ Ms. Malner reviewed the First Quarter Fiscal Year 2024-25 financials.

***Upon consideration thereof, it was moved by Commissioner Lee, seconded by Commissioner Lima, and unanimously carried (4-0), to receive, approve and file the financials for the First Quarter Fiscal Year 2024-25.***

**Chair Lewis indicated that the motion was approved by a 4-0**

**Item 9: PBWA Legislative Activities**

**A. CA Water for All Campaign Update**

- ◆ The Commission was updated regarding the veto of SB366 and the possible reprisal of the items included in SB 366 in future legislation.
- ◆ Staff briefed the Commission on the California Municipal Utilities Agency's activities and the California Water for All campaign and information regarding a possible donation.
- ◆ Staff requested the approval of a \$20,000 donation.

***Upon consideration thereof, it was moved by Commissioner Lee seconded by Commissioner Lima, and unanimously carried (4-0) to approve a donation of \$20,000 to the California Municipal Utilities Agency for use in the California Water for All campaign.***

**Chair Lewis indicated that the motion was approved by a 4-0**

**B. SB 1330 (Archuleta) Urban Retail Water Supplier: Water Use**

- ◆ No updated; this item will be removed from future agendas.

**Item 10: Regional Water Supply Reliability Program**

**A. Puente Basin Groundwater Management Plan**

- ◆ Mr. Macias reported on Phase 2 of the Puente Basin Groundwater Management Plan and its intended release in early 2025.

**B. California Domestic Water Company**

- ◆ Mr. Coleman reported the Cal Domestic project was operating at a single pump flow.
- ◆ Staff met with Cal Domestic and with the Division of Drinking Water's approval of Cal Domestic's new PFAS treatment for its well, up to a 3-pump flow will now be possible at times.

**C. Central Basin**



- ♦ Mr. Coleman reported that staff met with Pico Water District and the City of Whittier and continued discussions regarding conceptual intertie designs and a future joint effort to produce and deliver Central Basin groundwater.

*D. Pomona Basin Regional Groundwater Project*

*i. Six Basins Groundwater Project Update*

- ♦ Mr. Macias reported that Old Baldy Well is operational and Title 22 samples have been collected and a blending plan will be established.
- ♦ Mr. Macias also reported that Durward Well is close to being operational.

*ii. Proposition 84 Grant*

- ♦ Mr. Macias updated the Commission on the project progress and the reporting required for the receipt of grant funds. Completion of the grant process should take place by early next year.

*E. Regional Water Supply Reliability Program Update*

- ♦ Mr. Macias reported Woodard and Curran is continuing to work on the Puente Basin Water Agency Regional Water Supply Program Update and a final memo will be available early next year.

*F. Advanced Water Treatment Facility*

- ♦ Mr. Macias reported that staff is reviewing treatment plant size and possible grant opportunities available to provide funding assistance to acquire a parcel. Mr. Greg Saenz will present at the February meeting.

**Item 11: Attorney's Report**

- ♦ Mr. Ciampa reported each member of the Legislature will have a 35 bill limit on legislation they will be able to introduce.

**Item 12: Commission Follow-Up**

No report on this item

**Item 13: Commissioner Comments**

Happy New Year offerings were given to all.

**Item 14: Items for Future Discussion/Review**

No report on this item

**Item 15: Adjournment at 9:20 a.m.**

***By consensus of the Commission the meeting ended at 9:20 a.m.***

**MINUTES OF MEETING  
OF THE BOARD OF COMMISSIONERS OF  
PUENTE BASIN WATER AGENCY**

**October 3, 2024  
At the Offices of the  
Rowland Water District**

**COMMISSIONERS PRESENT:**

Robert Lewis, Commissioner  
Anthony Lima, Commissioner  
Henry Woo, Commissioner  
Scarlett Kwong, Alternate Commissioner

**STAFF PRESENT:**

Jared Macias, Administrative Officer  
Myra Malner, Treasurer  
Josh Byerrum, Assistant Treasurer  
Reid Miller, Legal Counsel  
Carmen Fleming, Secretary

Staff, guests and others in attendance: Ms. Dawn Flores, Woodard and Curran; Ms. Gabby Palomares, Mr. Tom Coleman and Mr. Dusty Moiso, Rowland Water District; Ms. Sherry Shaw and Mr. Tom Monk, Walnut Valley Water District.

The meeting was called to order at 8:00 a.m. with Chair Lewis presiding.

**Item 4: Public Comment**

None.

**Item 5: Approval of Minutes for August 1, 2024**

*Upon consideration thereof, it was moved by Commissioner Lima, seconded by Commissioner Lee, and unanimously carried (4-0) to approve the minutes of the Commission meeting held on August 1, 2024.*

**Chair Lewis indicated that the motion was approved by a 4-0 vote**

**Item 6: December 2024 Meeting Date Change**

- ♦ The Association of California Water Agencies Fall 2024 Conference is scheduled for December 2-5, 2024. Several of the Commissioners will be attending the conference, staff proposed to move the Thursday, December 5, 2024 Commission meeting to Thursday, December 12, 2024.

*Upon consideration thereof, it was moved by Commissioner Lee, seconded by Commissioner Lima, and unanimously carried (4-0) to move the Thursday, December 5, 2024 Commission meeting to Thursday, December 12, 2024.*

**Chair Lewis indicated that the motion was approved by a 4-0 vote**

**Item 7: Consider Approval of Resolution No. 10-24-034: Authorizing the Commitment of Funds and Support for the San Jose Creek Pipeline Project**

- ♦ The Commission was asked to approve Resolution No. 10-24-034 authorizing the commitment of funds and support for the San Jose Creek Pipeline project.

- ◆ Staff provided the Commission with an overview of the San Jose Creek Pipeline project and to seek approval for the submission of a grant application to the United States Bureau of Reclamation's Water & Energy Efficiency Grant (WEEG) program.

***Upon consideration thereof, it was moved by Commissioner Lee, seconded by Commissioner Lima, and unanimously carried by roll call vote (4-0) to approve Resolution No. 10-24-034 authorizing the commitment of funds and support for the San Jose Creek Pipeline project, including submission of a grant application under the WEEG program.***

**Chair Lewis indicated that the motion approved by a 4-0 roll call vote**

**Item 8: Review of Financial Statements: Fourth Quarter FY 23-24**

- ◆ Ms. Malner reviewed the Fourth Quarter Fiscal Year 2023-24 financials.

***Upon consideration thereof, it was moved by Commissioner Lee, seconded by Commissioner Woo, and unanimously carried (4-0), to receive, approve and file the financials for the Fourth Quarter Fiscal Year 2023-24.***

**Chair Lewis indicated that the motion was approved by a 4-0 vote**

**Item 9: PBWA Legislative Activities**

- A. *CA Water for All Campaign Update*
  - ◆ The Commission was updated regarding the veto of SB366.
- B. *SB 1330 (Archuleta) Urban Retail Water Supplier: Water Use*
  - ◆ The Commission was updated on SB1330.

**Item 10: Regional Water Supply Reliability Program**

- A. *Puente Basin Groundwater Management Plan*
  - ◆ Mr. Macias reported on Phase 2 of the Puente Basin Groundwater Management Plan.
- B. *California Domestic Water Company*
  - ◆ Mr. Moisio reported that the Cal Domestic project remained offline.
- C. *Central Basin*
  - ◆ Mr. Coleman reported that staff met with Pico Water District and continued discussions regarding a joint effort.
- D. *Pomona Basin Regional Groundwater Project*
  - i. *Six Basins Groundwater Project Update*
    - ◆ Mr. Macias reported on the Durward Well and the Old Baldy Well projects' status.
  - ii. *Proposition 84 Grant*
    - ◆ Mr. Macias updated the Commission on the project progress and the reporting required for the receipt of grant funds.

*E. Regional Water Supply Reliability Program Update*

- i. Ms. Dawn Flores of Woodard and Curran provided a PowerPoint presentation to the Commission regarding the Regional Water Supply Reliability Program Update.
- ii. Mr. Macias requested authorization to execute the Main San Gabriel Groundwater Basin Cyclic Storage letter agreement with Three Valleys Municipal Water District to purchase 3,000-acre feet of supplemental water for the 2025-2029 water years.

***Upon consideration thereof, it was moved by Commissioner Lee, seconded by Commissioner Lima, and unanimously carried (4-0) to authorize the Administrative Officer to execute the Main San Gabriel Groundwater Basin Cyclic Storage letter agreement with Three Valleys Municipal Water District to purchase 3,000-acre feet of supplemental water for the 2025-2029 water years.***

**Chair Lewis indicated that the motion was approved by a 4-0 vote**

*F. Advanced Water Treatment Facility*

- ♦ Mr. Macias reported that future PowerPoint presentations will be presented to the Commission regarding reclaimed water sources and grant funding availability for future projects.

**Item 11: Attorney's Report**

No report on this item

**Item 12: Commission Follow-Up**

No report on this item

**Item 13: Commissioner Comments**

No report on this item

**Item 14: Items for Future Discussion/Review**

No report on this item

**Item 15: Adjournment at 9:26 a.m.**

***By consensus of the Commission the meeting ended at 9:26 a.m. in memory of Mr. Tony Poli. The next Commission meeting is to be held December 12, 2024, at Walnut Valley Water District.***

	9/30/2024	12/31/2024	TOTAL	Budget
Ordinary Income/Expense				
1 Income				
2 Administrative Assessment	\$ 124,426	\$ 83,146	\$ 207,572	\$ 418,900
3 Water Sales - Project	73,104	288,824	361,928	2,155,900
4 Water Sales - TVMWD	4,670,551	2,900,025	7,570,577	14,804,500
5 Project Maintenance Reserve	-	2,021	2,021	6,000
6 Used of Stored/Leased Water	-	240,475	240,475	675,900
7 Total Income	4,868,081	3,514,491	8,382,573	18,061,200
8 Expense				
9 Source of Supply				
10 Purchased Water - TVMWD	4,504,779	2,655,909	7,160,688	14,004,400
11 Purchased Water - CDWC	-	174,142	174,142	536,100
12 Stored Water Used	-	240,475	240,475	675,900
13 Assessments - MSGBWM	-	81,236	81,236	240,000
14 Purchased Water - Old Baldy	-	-	-	310,400
15 Purchased Water - Durward	-	-	-	414,700
16 Total Source of Supply	4,504,779	3,151,763	7,656,541	16,181,500
17 Fixed Charges				
18 TVMWD Equivalent Small Meters	21,431	21,431	42,863	91,700
19 TVMWD Water Use Charge	19,664	19,664	39,329	83,600
20 TVMWD Connected Capacity	20,524	20,524	41,048	88,000
21 MWD Capacity Reservation Charge	102,092	102,092	204,185	451,100
22 TVMWD RTS Charge	-	80,403	80,403	83,500
22 Total Fixed Charges	163,713	244,116	407,829	797,900
23 Other Costs				
24 Energy - Pumping and Treatment	3,395	16,156	19,552	409,000
25 Materials & Supplies - Chemical	5,632	9,413	15,044	33,600
26 Materials & Supplies - Others	546	391	937	25,000
27 Other Costs (RWD Labor etc.)	4,263	7,486	11,749	65,700
28 Baldy Lease Agreement	59,269	-	59,269	121,400
29 Permits & Fees	2,060	-	2,060	2,200
30 Total Other Costs	75,164	33,446	108,610	656,900
31 Administrative & General				
32 Legal	1,575	2,465	4,040	20,000
33 Engineering	-	600	600	5,000
34 Professional Services- Other	97,614	67,887	165,501	304,200
35 Insurance - Property & Liability	4,963	2,131	7,094	6,500
36 Accounting	3,424	1,712	5,136	8,400
37 Administrative Expenses - Other	16,850	8,351	25,201	74,800
38 Total Administrative & General	124,426	83,146	207,572	418,900
39 Total Expense	4,868,081	3,512,471	8,380,552	18,055,200
40 Other Income/Expense				
41 Stored Water Transfer/Purchase	-	-	-	-
42 Leased Water Income	123,125	-	123,125	125,500
43 LAIF Interest	-	3,250	3,250	2,000
44 Grant Revenue	-	-	-	-
45 Other Income	-	-	-	-
46 Stored Water Expense	-	-	-	-
47 Net Other Income	123,125	3,250	126,375	127,500
48 Net Income (Loss) Before Transfers	123,125	5,270	128,395	133,500
49 Transfer In: Maint. Reserve Funds Used	-	-	-	-
50 Transfer Out: Maint. Reserve Funds Collected	-	(2,021)	(2,021)	(6,000)
51 Net Income (Loss) After Transfers	\$ 123,125	\$ 3,250	\$ 126,375	\$ 127,500

PBWA Maintenance Reserve		9/30/2024	12/31/2024	Year to Date	Budget
52	Beginning Balance	\$ 166,901	\$ 166,901	\$ 166,901	\$ 166,901
53	Transfers In	-	2,021	2,021	6,000
54	Transfers Out	-	-	-	-
55	Ending Balance September 30, 2024	\$ 166,901	\$ 168,922	\$ 168,922	\$ 172,901

Capital Projects		9/30/2024	12/31/2024	Year to Date	Life to Date
56	Revenues				
57	Member Assessment - RWD	\$ 50,782	\$ 100,114	\$ 150,896	\$ 3,352,650
58	Member Assessment - WWWD	50,782	100,114	150,896	\$ 3,352,650
59	Grant Proceeds Use	-	-	-	\$ 1,872,700
60	Total Revenues	101,563	200,228	301,791	\$ 8,577,999
61	Expenses				
62	Pomona Basin	101,563	200,228	301,791	\$ 10,778,062
63	Total Expenses	\$ 101,563	\$ 200,228	301,791	\$ 10,778,062

PBWA Stored Water		9/30/2024	12/31/2024	Year to Date
64	Stored Water (\$\$):			
65	Beginning Balance	\$ 14,918,620	\$ 14,918,620	\$ 14,918,620
66	Add: Transferred Water	-	-	-
67	Less: Water Produced	-	(240,475)	(240,475)
68	Ending Balance	\$ 14,918,620	\$ 14,678,145	\$ 14,678,145
69	Stored Water (AF):			
70	Beginning Balance	23,295	23,295	23,295
71	Add: Transferred Water	-	-	-
72	Less: Water Produced	-	(404)	(404)
73	Ending Balance	23,295	22,891	22,891

**PUENTE BASIN WATER AGENCY  
STATEMENT OF CASH FLOWS  
FY 2024-25**

		BEGINNING BALANCE JULY 1, 2024		\$ 461,680.36
<u>Deposits:</u>				
		Rowland	2,875,704.67	
		WVWD	6,255,956.96	
		Bellflower	5,000.00	
		Montebello Land & Water Company	58,125.00	
		South Montebello Irrigation District	65,000.00	
		City of Industry	9,627.54	
		LAIF-Interest	6,306.95	
		Subtotal Deposits		9,275,721.12
		Total Deposits		9,737,401.48
<u>Disbursements:</u>				
<u>Date</u>	<u>Check #</u>	<u>Payee</u>		
07/22/24		TVMWD	(1,176,938.46)	
08/21/24		TVMWD	(1,250,191.86)	
09/18/24		TVMWD	(1,643,844.66)	
07/03/24	2207	Lagerlof, LLP	(112.50)	
07/03/24	2208	Reeb Government Relations, LLC	(4,500.00)	
07/03/24	2209	Water Replenishment District of Southern	(241.25)	
07/22/24	2210	C.J. Brown & Company CPAs	(3,424.00)	
07/22/24	2211	Rowland Water District	(29,345.50)	
07/22/24	2212	West Yost & Associates, Inc.	(2,420.50)	
07/22/24	2213	Woodard & Curran, Inc.	(44,683.90)	
07/22/24	2214	City of La Verne	(59,269.18)	
07/22/24	2215	Lagerlof, LLP	(1,237.50)	
07/22/24	2216	Reeb Government Relations, LLC	(4,500.00)	
07/22/24	2217	City of La Verne	(51.00)	
08/27/24	2218	ACWA/JPIA	(100.00)	
08/27/24	2219	C.J. Brown & Company CPAs	(218.00)	
08/27/24	2220	City of La Verne	(51.00)	
08/27/24	2221	Lagerlof, LLP	(150.00)	
08/27/24	2222	Morrow Meadow	(261,953.00)	
08/27/24	2223	Reeb Government Relations, LLC	(4,500.00)	
08/27/24	2224	Rowland Water District	(5,704.69)	
08/27/24	2225	San Gabriel Valley Watermaster	(212,991.66)	
08/27/24	2226	Walnut Valley Water District	(1,922.30)	
08/27/24	2227	West Yost & Associates, Inc.	(6,378.73)	
09/24/24	2228	ACWA/JPIA	(4,863.27)	
09/24/24	2229	C.J. Brown & Company CPAs	(3,206.00)	
09/24/24	2230	City of La Verne	(51.00)	
09/24/24	2231	Lagerlof, LLP	(1,312.50)	
09/24/24	2232	Reeb Government Relations, LLC	(4,500.00)	
09/24/24	2233	Woodard & Curran, Inc.	(38,754.50)	
09/24/24	2234	City of La Verne	(53.55)	
10/24/24		TVMWD	(1,726,716.46)	

**PUENTE BASIN WATER AGENCY  
STATEMENT OF CASH FLOWS  
FY 2024-25**

11/18/24		TVMWD	(1,299,990.06)	
12/20/24		TVMWD	(1,066,150.06)	
10/28/24	2235	ACWA	(3,655.00)	
10/28/24	2236	Civiltec Engineering	(220.00)	
10/28/24	2237	Lagerlof, LLP	(112.50)	
10/28/24	2238	Morrow Meadow	(76,000.00)	
10/28/24	2239	Reeb Government Relations, LLC	(4,500.00)	
10/28/24	2240	SoCal SCADA Solutions	(24,968.00)	
10/28/24	2241	Walnut Valley Water District	(1,326.42)	
10/28/24	2242	West Yost & Associates, Inc.	(6,887.25)	
11/20/24	2243	City of La Verne	(51.00)	
11/20/24	2244	Lagerlof, LLP	(1,265.00)	
11/20/24	2245	Morrow Meadow	(114,679.00)	
11/20/24	2246	Reeb Government Relations, LLC	(4,500.00)	
11/20/24	2247	Rowland Water District	(13,983.12)	
11/20/24	2248	West Yost & Associates, Inc.	(15,593.08)	
11/20/24	2249	Woodard & Curran, Inc.	(18,378.75)	
11/20/24	2250	ACWA/JPIA	(2,131.13)	
12/19/24	2251	C.J. Brown & Company CPAs	(856.00)	
12/19/24	2252	City of La Verne	(51.00)	
12/19/24	2253	Civiltec Engineering	(820.00)	
12/19/24	2254	Lagerlof, LLP	(337.50)	
12/19/24	2256	Rowland Water District	(6,425.56)	
12/19/24	2257	West Yost & Associates, Inc.	(7,899.25)	
12/19/24	2258	Woodard & Curran, Inc.	(31,500.25)	
12/19/24	2259	Reeb Government Relations, LLC	(6,000.00)	
		Total Disbursements		<u>(9,202,466.90)</u>
		ENDING BALANCE DECEMBER 31, 2024		\$ 534,934.58
		LAIF		\$ 277,274.08
		Checking		\$ 257,660.50
		Total Cash Balance		\$ 534,934.58



**CERTIFIED COPY OF RESOLUTION OF THE  
BOARD OF DIRECTORS OF  
THE ROWLAND WATER DISTRICT**

The Board of Directors met in regular session in the Board Room of the Rowland Water District on December 10, 2024, at 6:00 p.m., with the following members being present and participating, to wit:

Present: Directors John Bellah, Vanessa Hsu, Anthony J. Lima, Robert Lewis, Szu Pei Lu-Yang

Absent: None

Board President Lu-Yang declared that a quorum was present and called the meeting to order.

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**CERTIFICATE**

I hereby certify that the attached copy of Resolution No. 12.1-2024 is a true and correct copy of the resolution duly adopted by the Board of Directors of the Rowland Water District on the Board meeting date stated therein, at which meeting a quorum of Board of Directors was present, that such resolution has not been modified, rescinded or revoked, and is at present in full force and effect.

This resolution is effective: December 10, 2024

*The official resolution is on file in the resolution book of the Rowland Water District.*



*Gabriela Palomares*

Executive Services Manager

Date: December 12, 2024



**RESOLUTION NO. 12.1-2024**  
***Supersedes Resolution No. 12.1-2023***

**ROWLAND WATER DISTRICT**

**RESOLUTION OF THE BOARD OF DIRECTORS  
APPOINTING REPRESENTATIVES TO THE  
PUENTE BASIN WATER AGENCY**

**WHEREAS**, the Rowland Water District entered into an Amended Restated and Renewed Joint Powers Agreement creating the PUENTE BASIN WATER AGENCY, dated October 28, 2009, with Walnut Valley Water District, (the PBWA Agreement); and,

**WHEREAS**, the PBWA Agreement provides that the PUENTE BASIN WATER AGENCY shall be governed by a Commission consisting of four commissioners, and that the governing body of each of the members shall annually appoint two representatives to the Commission and one alternate to serve in the absence of either of the appointed representatives; and,

**WHEREAS**, the PBWA Agreement further provides that at least one of the appointed representatives of each member shall be a Director on the governing board of the appointing member; and,

**WHEREAS**, each Commissioner must file with the PUENTE BASIN WATER AGENCY a certified copy of the resolution of the member appointing him or her,

**NOW THEREFORE, BE IT RESOLVED** by the Board of Directors of the Rowland Water District:

1. That ANTHONY J. LIMA, who is a member of the Board of Directors of the Rowland Water District, shall be appointed as a representative of the Rowland Water District to serve on the Commission of the PUENTE BASIN WATER AGENCY.
2. That ROBERT W. LEWIS, who is a member of the Board of Directors of the Rowland Water District shall be appointed as a representative of the Rowland Water District to serve on the Commission of the PUENTE BASIN WATER AGENCY.
3. That TOM COLEMAN, General Manager of Rowland Water District, shall be appointed as an alternate representative of the Rowland Water District to serve on the Commission of the PUENTE BASIN WATER AGENCY in the absence of either of the appointed representatives.

4. That each of the representatives and alternate appointed herein shall serve for a term of one year unless removed and replaced at the pleasure of the Board of Directors, or unless such representative or alternate resigns or becomes incapacitated.

5. That a certified copy of this Resolution be provided to the PUENTE BASIN WATER AGENCY.

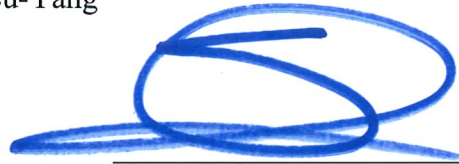
**PASSED, APPROVED, AND ADOPTED** at the regular meeting of the Board of Directors held December 10, 2024, by the following roll call vote:

AYES: Directors Bellah, Hsu, Lewis, Lima, and Lu-Yang

NOES: None

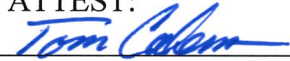
ABSENT: None

ABSTAIN: None



**SZU PEI LU-YANG**  
President

ATTEST:



**TOM COLEMAN**  
General Manager

I certify that the forgoing Resolution is a true and correct copy of the Resolution of the Board of Directors of the Rowland Water District adopted on December 10, 2024.



**TOM COLEMAN**  
Board Secretary



TO: Board of Commissioners  
FROM: Jared Macias, Administrative Officer  
DATE: February 6, 2025  
RE: Annual Selection of Commission Officers and Commission Staff for 2025

---

### **Recommendation**

That the Commissioners:

1. Conduct the annual selection of officers as set forth in the Puente Basin Water Agency Joint Powers Agreement (JPA);<sup>1</sup> and the
2. Annual appointment of Secretary, Treasurer, Administrative Officer, Assistant Administrative Officer and Assistant Treasurer as set forth in the JPA.

### **Background**

At the February PBWA meeting, the amended JPA (referenced below) directs the selection of Commission officers:

1. **Section of Chair and Vice-Chair** (as amended on January 19, 2012)

In the JPA, subdivision 1 of Section E, it states,

At the Commission meeting in February, there shall be selected from the Commission a Chairman and a Vice Chairman. When the Commissioners select a Chairman from Walnut, the Vice Chairman shall be from Rowland. In that instance, for the following year, the new Chairman shall be from Rowland and the Vice Chairman shall be from Walnut. Such offices shall alternate between the Commissioners from Walnut and Rowland each year.

Following is the rotation for 2025:

Position	2024	Rotation for 2025
Chairman	Mr. Lewis – RWD	WVWD Designee
Vice-Chairman	Mr. Woo - WVWD	RWD Designee

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<sup>1</sup> As amended at the PBWA's Jan 19, 2012, meeting and approved by the Rowland and Walnut Water Districts Board of Directors. Further amendments took place at the Feb 7, 2017, Commission meeting where Section E(1) authorizes the Commission to appoint additional officers as they deem appropriate (also refer to Item No. 2 of this report).

2. **Appointment of Secretary, Treasurer, Administrative Officer, Assistant Administrative Officer, and the Assistant Treasurer** (as amended on January 19, 2012 and February 7, 2017)

The JPA further states in subdivision 1 of Section E,

There shall also be a Secretary, Treasurer, and Administrative Officer. The Secretary of the Commission shall rotate annually between the General Manager of Walnut, or Walnut's General Manager's designee, and the General Manager of Rowland, or Rowland's General Manager's designee. The Treasurer of the Commission shall be the Treasurer of Rowland or Rowland's General Manager's designee. The Administrative Officer shall be the General Manager of Walnut, or Walnut's General Manager's designee.

In addition to the officers specified in Section 2, above, Section E(1) of the Agency's Joint Powers Agreement authorizes the Commission to appoint additional officers, as they deem appropriate. Accordingly, at the February 7, 2017, Commission meeting, approval was given to add the positions of Assistant Administrative Officer and Assistant Treasurer to the PBWA positions.

Position	2024 Appointments	Proposed for 2025
Secretary (Rotates between RWD and WVWD)	RWD Designee (Ms. Fleming)	WVWD's Designee (Ms. Fleming)
Treasurer (RWD)	RWD Designee (Ms. Malner)	RWD Designee (Ms. Malner)
Administrative Officer (WVWD)	Mr. Macias, WVWD	Mr. Macias, WVWD
Assistant Administrative Officer	Mr. Coleman, RWD	Mr. Coleman, RWD
Assistant Treasurer	Mr. Byerrum, WVWD	Mr. Byerrum, WVWD



TO: Board of Commissioners  
FROM: Jared Macias, Administrative Officer  
DATE: February 6, 2025  
RE: PBWA 2025-26 Legislative Contract  
Reeb Government Relations Legislative Lobbying Contract for 2025-2026

---

### **Recommendation**

Authorize the Administrative Officer to execute the Lobbying Firm Retention Contract with Reeb Government Relations, LLC for Legislative Services effective March 2025 through December 2026.

### **Background**

For several years, the Puente Basin Water Agency (PBWA) has successfully worked with Reeb Government Relations, LLC (Reeb) for legislation related advice and representation. In partnership with Bellflower Somerset Mutual Water Company (BSMWC), Bob Reeb has lobbied and represented the interests of Rowland Water District (RWD), Walnut Valley Water District (WVWD), and BSMWC, helping shape laws and educating lawmakers on critical issues affecting the water industry. Most recently, Reeb spearheaded PBWA and BSMWC's effort to amend the State Water Resources Control Board's "Making Conservation a California Water of Life" Regulation. This involved reaching out to local legislatures and teaming with Senator Bob Archuleta as a sponsor of Senate Bill 1330. Subsequently, Reeb attended various committees and met with several lawmakers, educating them on the benefits of this bill. Reeb's service was invaluable in the bill's forward progress through both the house and senate.

PBWA continues to benefit from having a tenured and effective lobbyist to support the interests of RWD and WVWD, along with BSMWC. Staff recommends the execution of a two-year contract, effective March 1, 2025 through December 31, 2026. The price per month for 2025 will be \$6,000 per month, with a modest increase to \$6,250 per month for 2026. This cost will be shared equally between the three parties.

### **Attachment**

- A) Reeb Government Relations Lobbying Firm Retention Contract 2025-2026





## REEB GOVERNMENT RELATIONS

### **LOBBYING FIRM RETENTION CONTRACT**

The following constitutes a lobbying firm retention contract between **REEB GOVERNMENT RELATIONS, LLC** (“RGR” hereinafter), or its legal successor in interest, and **PUENTE BASIN WATER AGENCY** (“PBWA” hereinafter), or its legal successor in interest.

1. **SERVICES TO BE PERFORMED**—PBWA engages the services of RGR as an independent contractor. RGR will provide advice and representation to PBWA and on behalf of other local water agencies associated with PBWA pursuant to a written Cost Sharing Agreement. Services will relate to California state legislative and regulatory matters. Such services shall include:

- A. Representation in the State Capitol and with the Executive Branch in regard to the 2025-26 California legislative program of the participating agencies.
- B. Research and analysis of state legislative and regulatory issues and related initiatives; drafting legislation and amendments thereto relating to such issues.
- C. Legislative reporting services as may be required by the participating agencies.
- D. Participation and attendance at meetings, upon request by the participating agencies, including, but not limited to, meetings related to issues management and formation of lobbying coalitions.

RGR will work under the direction of a management steering committee of the participating agencies, which shall include PBWA’s management, and will coordinate services to be performed with same.

2. **TERMS OF PAYMENT**—PBWA will pay RGR, according to terms and conditions set forth herein, a fee of SIX THOUSAND AND NO/100 DOLLARS (\$6,000.00) per month for the first year of the contracted period. This amount shall be due on the first (1<sup>st</sup>) day of each month from March 2025 through December 2025, inclusively. PBWA will pay RGR, according to terms and conditions set forth herein, a fee of SIX THOUSAND TWO HUNDRED AND FIFTY AND NO/100 DOLLARS (\$6,250.00) per month for the second year of the contracted period. This amount shall be due on the first (1<sup>st</sup>) day of each month from January 2026 through December 2026, inclusively. Payment shall cover all time expended by RGR personnel unless otherwise agreed to by RGR and PBWA.

**Puente Basin Water Agency**  
**Lobbying Firm Retention Contract**  
**Page 2 of 3**

- A. Invoices shall be submitted monthly by RGR for payment by PBWA. Payment is past due the next business day following the fifteenth of the month. If PBWA has any valid reason for disputing any portion of an invoice, PBWA will so notify RGR within seven (7) calendar days of receipt of invoice, and if no such notification is given, the invoice shall be deemed valid. The portion of RGR's invoice that is not in dispute shall be paid in accordance with the procedures set forth herein.
  - B. PBWA shall reimburse RGR all costs incurred in connection with the services rendered. Reimbursable costs include, but are not limited to, travel costs, telephone, facsimile, copies, and delivery that are attributable to the services rendered. Travel costs are defined as air travel, lodging, meals and incidentals, ground transportation, and all costs associated with travel. All extraordinary travel expenses must receive PBWA's prior approval. RGR shall provide to PBWA substantiation of reimbursable costs incurred. In no event shall the aggregate amount of reimbursable costs payable by PBWA in any single year exceed the amount of THREE THOUSAND AND NO/100 DOLLARS (\$3,000.00). Any expense incurred in excess of this amount shall be the legal responsibility of RGR.
  - C. A finance charge of 1.5% per month on the unpaid amount of an invoice will be charged on past due accounts. Payments by PBWA will thereafter be applied first to accrued interest and then to the principal unpaid balance. Any attorney fees, court costs, or other costs incurred in collection of delinquent accounts shall be paid by PBWA. If payment of invoices is not current, RGR may suspend performing further work.
3. **INDEPENDENT CONTRACTOR**—It is understood that RGR will function as an independent contractor and will hold itself out as such and will be without authority to obligate PBWA for indebtedness, contracts, or other legal obligations.
4. **POLITICAL REFORM ACT**—RGR will be solely responsible for its filing and reporting obligations pursuant to the Political Reform Act of 1974, as it may be amended from time to time. PBWA, and any other participating agencies, will be solely responsible for their respective filing and reporting obligations pursuant to the Political Reform Act of 1974, as it may be amended from time to time.
5. **GOVERNING LAW** - This contract shall be governed by and construed pursuant to the laws of the State of California.
6. **ENTIRE AGREEMENT** - This contract represents the entire agreement of the parties and no other representations, promises or agreements, oral or otherwise, shall be of any force or effect. This contract may be supplemented, amended or revised only in writing by agreement of the parties.



**Puente Basin Water Agency  
Lobbying Firm Retention Contract  
Page 2 of 3**

7. TERM OF CONTRACT—This engagement shall be subject to review at any mutually agreed upon time. Either party may terminate this engagement without cause by giving written notice at least sixty (60) days prior to the date of termination. PBWA's obligation to pay any further monthly installments shall cease upon the date of the termination and PBWA shall have no further monetary obligation to RGR as of that date of termination. The effective date of this agreement is March 1, 2025, and it shall terminate on December 31, 2026.

**PUENTE BASIN WATER  
AGENCY**  
271 South Brea Canyon Road  
Walnut, CA 91789

**REEB GOVERNMENT  
RELATIONS, LLC**  
1415 L Street, Suite 870  
Sacramento, CA 95814

By: Jared Macias  
Administrative Officer

By: Robert J. Reeb  
Managing Officer

Date: \_\_\_\_\_

Date: \_\_\_\_\_



TO: Board of Commissioners  
FROM: Jared Macias, Administrative Officer  
DATE: February 6, 2025  
RE: Technical Memorandum for the Advanced Water Treatment Facility Preliminary Sizing and Concept Evaluation

---

### **Recommendation**

Receive and file the Technical Memorandum for the Advanced Water Treatment Facility Preliminary Sizing and Concept Evaluation.

### **Background**

The respective Puente Basin Water Agency (PBWA) members have contractual allocations of tertiary treated recycled water from the San Jose Creek Water Reclamation Plant and the Pomona Water Reclamation Plant. In addition, each agency has the ability to pump and transport brackish groundwater from the Puente Basin. With the adoption of California's direct potable reuse (DPR) regulations in December 2023, effective October 2024, PBWA desired to explore treating these existing sources for a potential potable supply.

In November 2023, PBWA entered into a Professional Engineering Services Agreement with Woodard and Curran (W&C) for the preliminary sizing and concept evaluation of a proposed Advanced Water Treatment Facility (AWTF). The AWTF was assumed to be located on a parcel owned by the City of Industry, who is a partner with PBWA in other recycled water projects. W&C assumed the proposed AWTF would treat a blend of tertiary treated recycled water and brackish groundwater, up to 5,000-acre feet per year (AFY) or 4.5 million gallons per day (MGD). Water quality samples were taken from both sources to determine applicable treatment processes and equipment. The treatment train would consist of no less than four separate treatment processes, and no less than three diverse treatment mechanisms for each pathogen (enteric virus, giardia lablisch cyst, and cryptosporidium oocyst). To meet these requirements, the DPR treatment train was assumed to be full advanced treatment, consisting of ozone-biologically active filtration, micro or ultrafiltration, ultraviolet disinfection, reverse osmosis, ultraviolet disinfection with advanced oxidation, and chlorine disinfection. With losses through the treatment process, the plant was assumed to produce up to 3.5 MGD of highly treated potable water.

A conceptual layout of the treatment plant was designed along with probable costs. Based on the equipment required for full advanced treatment, an estimate of \$105,050,000 to \$225,100,000 was provided. At this time, the cost for pursuing this project any further is prohibitive, however, staff will continue to monitor the availability of grant funding at local, state,

and federal levels. In addition, it is probable that treatment equipment costs will come down in the future as more efficiencies are made and more suppliers enter the DPR market.

Attachment

- A) Technical Memorandum for the Advanced Water Treatment Facility Preliminary Sizing and Concept Evaluation

# TECHNICAL MEMORANDUM

**TO:** Jared Macias, WVWD

**CC:** Sherry Shaw, WVWD

**PREPARED BY:** Martha De Maria y Campos, Tyler Abercrombie

**REVIEWED BY:** Carrie Del Boccio, Nate McLaughlin

**DATE:** January 6, 2025

**RE:** Puente Basin Water Agency (PBWA) Advanced Water Treatment Facility (AWTF) Preliminary Sizing and Concept Evaluation

## 1. Background and Objective

Puente Basin Water Agency (PBWA) wishes to understand whether a specific vacant parcel is of sufficient size to construct an Advanced Water Treatment Facility (AWTF). The proposed facility will treat a blend of tertiary treated recycled water from the Pomona Water Reclamation Plant and brackish groundwater from the Puente Basin to the quality standards needed for direct potable reuse (DPR). For planning purposes, PBWA will allocate up to 2,000 acre-feet per year (AFY) (1.8 million gallons per day (MGD)) of tertiary treated water and up to 3,000 AFY (2.7 MGD) of brackish groundwater, for a total AWTF design feed capacity of 5,000 AFY (4.5 MGD).

## 2. Assumptions to Form the Basis of Parcel Assessment

### 2.1 Water Quality

A review of available water quality data for both the brackish groundwater and tertiary treated recycled water from Pomona Water Reclamation Plant (WRP) was conducted to determine a representative blended feed water quality profile for the AWTF. This water quality profile was used in coordination with equipment manufacturers to determine the necessary treatment train and treatment equipment sizing for the facility.

Groundwater sampling data reviewed was from several wells in PBWA's service area, including data from Wells #1-5 and the Tony Poli Well for the most recent five years from 2018-2023. Title 22 data for Well #5 from February 2024 was also provided for review as part of this evaluation. This data consisted primarily of total dissolved solids (TDS) data, with some data for calcium, pH, temperature and alkalinity from the Tony Poli Well. Tertiary treated recycled water data was pulled for the most recent five years (2018-2023) from online data available on the California Integrated Water Quality System (CIWQS).

Due to limited sample set of parameters associated with the groundwater quality data, a qualitative comparison was done between the two data sets. It was found that TDS and pH data between the groundwater and recycled water were similar, suggesting that variations in the blend of influent sources during plant operation should generally not cause significant treatment challenges. The data summary presented in Table 1 was developed as an estimate of blended water quality from the data provided for use in coordination with equipment vendors for conceptual design and sizing of the treatment process train.

**TABLE 1: ESTIMATED SUMMARY OF BLENDED WATER QUALITY**

<b>Parameter</b>	<b>Units</b>	<b>Average</b>	<b>Max/Range</b>
Ammonia, Total (as N)	mg/L	2.0	6.9
Boron, Total Recoverable	mg/L	0.3	0.4
Calcium	mg/L	190	200
Chloride	mg/L	139	186
Chlorine, Total Residual*	mg/L	1.2	4.7
Dissolved Oxygen	mg/L	5.2	7.2
Fluoride, Total	mg/L	0.3	0.3
Hardness, Total (as CaCO <sub>3</sub> )	mg/L	212	266
Nitrate, Total (as N)	mg/L	6.4	8.8
Nitrite Plus Nitrate (as N)	mg/L	6.5	9.0
Orthophosphate, Total (as P)	mg/L	0.3	1.2
pH	SU		6.6 - 8.5
Phosphorus, Total (as P)	mg/L	0.4	1.3
Sulfate, Total (as SO <sub>4</sub> )	mg/L	71	105
Temperature	Degrees F		64 - 88
Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	303	306
Total Dissolved Solids (TDS)	mg/L	952	1087
Total Kjeldahl Nitrogen (TKN) (as N)	mg/L	3.6	8.3
Total Suspended Solids (TSS)*	mg/L	2.3	3.9
Turbidity	NTU	0.6	2.0

\*Largely non-detect (99%+)

## 2.2 Treatment Train and Equipment

The treatment processes were identified based upon the DPR regulations finalized by the California State Water Resources Control Board (SWRCB) on December 19, 2023. A summary of this regulation is provided as follows.

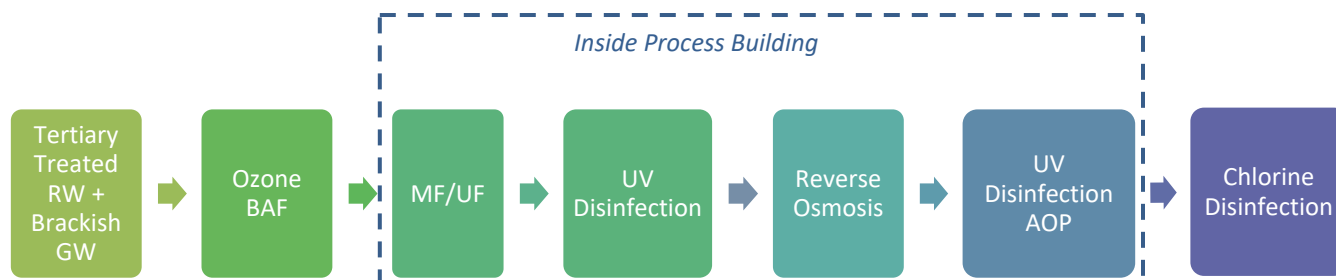
- The sum of the treatment process validated pathogen log reductions for the treatment train shall be at least 20 log for enteric virus, 14 log for *Giardia lamblia* cyst (giardia), and 15 log for *Cryptosporidium oocyst* (crypto), with an allowance to drop as low as 16/10/11, respectively, for up to 10% of the time in a calendar month.
- The treatment train shall consist of no less than four separate treatment processes for each of the three pathogens. Four treatment processes for each pathogen shall each be credited with no less

than 1.0 log reduction, and no single process may be credited with more than 6 log reduction. A single treatment process may receive pathogen log reduction credits for one or more pathogens.

- The treatment train shall consist of no less than three diverse treatment mechanisms each for enteric virus, *Giardia lamblia* cyst, and *Cryptosporidium* oocyst.
  - The three treatment mechanisms shall include one membrane physical separation mechanism, one chemical inactivation mechanism, and one UV inactivation mechanism. Additional treatment mechanisms may be used.

To meet the requirements of the regulations and achieve necessary log reduction values (LRVs) the DPR treatment train is assumed to be full advanced treatment (FAT) consisting of ozone-biologically active filtration (Ozone-BAF), micro or ultrafiltration (MF/UF), ultraviolet (UV) disinfection, reverse osmosis (RO), UV disinfection with advanced oxidation (UV-AOP) and chlorine disinfection. For the purpose of the conceptual siting assessment, the ozone generator, MF/UF, RO, UV disinfection, and UV-AOP process steps are assumed to be inside a closed process building. A second administrative building will house staff and lab facilities, storage, and electrical equipment. Other equipment located externally to the buildings, including pumps and chemical storage, will be canopy covered where necessary. The chlorine contact basin will be below grade with pumping facilities at grade to optimize footprint. **Figure 1** shows a process flow diagram for the DPR treatment train for preliminary planning purposes; options for this treatment train can be evaluated in later planning and with the latest research from DPR demonstration projects by larger agencies (e.g. Pure Water Southern California, Pure Water LA). Associated storage and inter-process tankage is not shown in the treatment train diagram. **Table 2** provides the anticipated treatment processes, and their estimated recoveries used for equipment sizing. A treatment technologies table outlining the treatment processes in sequential order, their function, and anticipated LRVs was developed as part of Task 1 of this project and is provided as **Attachment 1**.

**FIGURE 1. DPR TREATMENT TRAIN**



## 2.3 Treatment Yield

The sizing for each process train step includes accounting for water losses through treatment (96% recovery from ozone-BAF, 95% recovery from MF/UF, 85% recovery from RO). Detailed analysis of waste and brine management was not evaluated as part of this planning level site layout evaluation and will be done

separately in a later phase of the project. **Table 2** lists the process flows for the proposed AWTF. The final production capacity of the facility is estimated to be up to 3.5 MGD.

**TABLE 2: TREATMENT PROCESS FLOWS AND RECOVERIES**

<b>Process</b>	<b>Recovery</b>	<b>Feed Flow (MGD)</b>
Ozone	100%	4.5
BAF	96%	4.5
UF	95%	4.3
UV Disinfection	100%	4.1
RO	85%	4.1
UV/AOP	100%	3.5
Free Chlorine	100%	3.5

## 2.4 Process Equipment and Appurtenances Sizing

Conceptual layouts do not include process piping nor any sub-discipline designs (i.e., electrical, mechanical, plumbing). Additional equipment (e.g. condensers) and conduits (e.g. air ducts) are needed for an AWTF but were not included as part of the conceptual site layout evaluation.

The process to develop estimated footprints for potable reuse facilities relied on a variety of information sources including specific vendor supplied equipment information and parametric sizing from potable reuse AWTF projects in California at various stages of implementation. **Table 3** outlines the vendor provided packaged equipment systems used for this evaluation. For the ozone and chlorine contact basins specifically, sizing was developed using specific parameters for assumed treatment goals (e.g. required contact time to achieve 3-log giardia credits).

**TABLE 3: VENDOR PROVIDED EQUIPMENT**

<b>System</b>	<b>Vendor</b>	<b>Model</b>
Ozone	Xylem	SMOevo 710 ozone generator and appurtenant systems
BAF	Xylem	Leopold BAF
UF	WesTech	Toray HFUG-2020AN UF System
UV Disinfection	Xylem	Wedeco Spektron 4000e
RO	WesTech	Toray TMG20D-400 RO System
UV/AOP	Xylem	Wedeco LBX 1500e





**FIGURE 3. PARCEL BOUNDARY OUTLINE**



## 4. Conceptual Site Layouts

The following considerations were made when evaluating a feasible AWTF layout for the selected parcel:

- A minimum 25-ft wide site access road with appropriate turning radius for large truck and vehicle access, and necessary fire access. Space for other paved or gravel surfaces for operations and maintenance vehicle access and parking is provided for as necessary but is not explicitly shown on the conceptual layouts.
- Space and equipment access for necessary maintenance and chemical delivery.
- System hydraulics and equipment placement to follow treatment process flow and minimize yard piping.
- Buried or stacked equipment where feasible to optimize footprint.
- A minimum of 3 to 5-feet of separation between each process to allow for access within the facilities.

Two conceptual site layout alternatives were developed for an AWTF capable of treating up to 4.5 MGD of blended tertiary effluent and brackish groundwater. The first alternative (Alternative 1) has a single point of

site access with a roundabout for vehicle circulation. A conceptual site layout drawing of Alternative 1 is provided as **Attachment 2**. Alternative 2 includes flow-through vehicle access with two points of ingress/egress. Alternative 2 would require purchase, lease, or easement of a portion of the parcel of land to the west of the proposed property for the secondary access road. It is assumed that this is feasible at this time as the land is not currently developed and owned by the City of Industry, but viability of this will need to be confirmed in a future phase of project development. It may require shared use of the access road with an adjacent facility if that land is developed in the future. A conceptual site layout drawing of Alternative 2 is provided as **Attachment 3**.

Alternative 2 with flow-through access between two facility access points is the recommended alternative for further cost evaluation for the following reasons:

1. Better for general site and fire access. As there are two points of ingress/egress, this allows for traffic to flow through the site in a preferred direction from entrance to exit rather than requiring larger vehicles double back to enter/exit at a single location, which may require additional coordination if more than one large truck or vehicle needs to access the site at the same time.
2. Minimized yard piping and better system hydraulics. For Alternative 1, all conveyance piping to and from the site, including for influent feed groundwater and treated wastewater piping, effluent finished water piping, effluent brine and wastewater piping, and all utility connections will need to enter the site from Valley Boulevard through the single, approximately 60-ft wide site access parcel. This will also require feedwater piping to traverse the full site to where the influent pump station is located at the west end of the parcel. For Alternative 2, influent feedwater can enter the site through the secondary access easement at the west near where the influent pump station and pretreatment equipment are located. Water then flows sequentially through the treatment system from west to east. Waste streams and finished water from the chlorine contact basin can then exit the site through the east access point to Valley boulevard for offsite conveyance and tie-in. Utilities can enter the site from either access point as most appropriate based on utility tie-in locations to be identified in a future design phase.
3. More available space for lay-down during construction or maintenance activities, and for potential additional treatment or piloting equipment in the future if desired.

The conceptual level estimate of cost is provided for the preferred Alternative 2 in Section 5.

## 5. Planning Level Opinion of Probable Cost

Parameters for the engineer's opinion of probable construction cost (EOPCC) at an AACE Class 5 level are provided in **Table 4** based on the conceptual process design and facility site layout developed and presented previously for this evaluation. The cost for the AWTF presented in this section is informed by equipment vendor provided budgetary estimates for treatment equipment and escalated cost information from Woodard & Curran's experience on similar AWTF projects.

**Table 4: Cost Summary Parameters**

Element	Description, Date or Value	Reference
AACE Estimate Class Definition	Table 6	n/a
Project Definition Level	Concept-Level Design	n/a
EOPCC Baseline Date	November 2024	n/a
Projected Midpoint of Construction Date	November 2035	n/a
Project Delivery Method	Design, Bid, Build	n/a
Estimate Classification	Class 5	AACE, 2012
Expected Accuracy Bounds	-30% / +50%	AACE, 2012

## 5.1 Construction Cost Methodology for the Class 5 EOPCC

The EOPCC was developed using a factored cost estimating/cost modeling tool jointly developed and maintained by Woodard & Curran's Industrial Water team and Preconstruction Services team. The tool utilizes the Equipment Factored methodology for developing a conceptual level construction capital cost estimate by taking the known costs of the individual types of process equipment required and multiplying them by a benchmarked installation factor to arrive at the total costs.

The installation factor method includes the costs of materials, labor and subcontractors required for the equipment installation. The electrical MCC costs were calculated using motor count and estimated horsepower requirements and the overall plant electrical is factored based on total equipment count, equipment type and equipment cost. Building structure costs were developed using square footage pricing derived from industry standard cost indexes and recently constructed buildings of similar size and material and have been adjusted for the local market. Costs for site civil items such as clearing and grubbing, grading, paving, retaining walls, concrete tanks, underground utilities and site security were developed through detailed cost estimating based on assumed quantities and current local pricing for labor, materials and equipment using MC2 ICE construction cost estimating software.

The benchmarking tools utilized in the factored cost model are derived from several sources including RS Means, the ENR Index (ENR CCI 2024: 13532) and cataloged historical costs from Woodard & Curran administered projects. Costs in the EOPCC have been adjusted to reflect current construction prices for the project area and assume prevailing labor wages and include local area sales tax on applicable items. The Class 5 cost estimate for the AWTF at the selected parcel is shown below in Table 5.

**Table 5: Opinion of Probable Cost for Construction of AWTF at Selected Parcel**

<b>Item</b>		<b>Subtotal</b>
Equipment, Materials & Direct Labor		Rounded
Ozone System		\$2,990,000
BAF System		\$2,500,000
UF Disinfection System		\$2,741,000
RO System		\$3,502,000
UV System		\$342,000
UVAOP		\$630,000
Ancillary Pumps		\$716,000
Process Equipment Labor		\$2,929,000
Other Process Equipment Ancillary Requirements incl Electrical		\$14,206,000
Site work		\$2,564,000
Site piping		\$1,530,000
Buildings and structures		\$7,305,000
Tanks - Field erected		\$868,000
Electrical - site and MCC		\$1,537,000
Control Panel		\$600,000
Pilot Project		\$2,000,000
Contractor General Conditions	30 months	\$3,000,000
Equipment Rental during Construction	28 months	\$1,400,000
<b>Subtotal Equipment and Materials</b>		<b>\$51,360,000</b>
Contractor Overhead & Profit (OH&P)		\$17,043,000
Escalation to 2035	4.5% per annum	\$23,113,000
Allowance/Contingency	40%	\$20,545,000
<b>Contractor Total (midpoint 2035)</b>		<b>\$112,061,000</b>
Planning (CEQA, Permits, Facilities Plan)		\$4,000,000
Owner Project Management	10%	\$11,206,000
Engineering & Design	15%	\$16,783,000
Engineering during construction	5%	\$5,603,000
Commissioning & Startup	4.0 months	\$400,000
<b>AWTF Total (Rounded)</b>		<b>\$150,050,000</b>
<b>-30%</b>		<b>\$105,050,000</b>
<b>+50%</b>		<b>\$225,100,000</b>

#### Notes:

1. The opinion of probable cost is for the facilities included in the layout on the selected parcel. There are other costs outside of this evaluation for conveyance of tertiary recycled water to the parcel, conveyance of brackish groundwater to the parcel, conveyance of waste streams to raw sewage collection system, conveyance of ROC to a brine or other waste line, and conveyance of purified recycled water to its end use location (e.g. connection to the potable water system).
2. Contractor OH&P includes P&P Bond, contractor fee (15%), sales tax (9.5%)

## 5.2 Escalation

The construction costs were estimated using current 2024 labor, equipment and materials pricing and have been escalated to midpoint of construction in 2035 using an inflation/escalation factor of 4.5% per annum for a total escalation factor of 45%.

## 5.3 Contingency

A contingency of 40% has been included in the estimate. This is in line with industry standard for this type of project noting an AWTF for DPR has not yet been permitted, constructed, and brought into operation in California at the time of this evaluation. Contingency is part of the opinion of the project cost and is to account for unusual weather conditions, changes in site conditions, labor problems, and increases in costs not covered by contractual provisions, items which have inadvertently not been incorporated in the take-offs, delays in deliveries of equipment or materials, changes in materials of construction and the like.

## 5.4 Assumptions

As the design progresses through the different completion stages, it is customary for assumptions to account for details that may not be evident from the documents. The following assumptions were considered in the development of this opinion.

- Major equipment costs are based on vendor supplied budgetary price quotes obtained by the project design team and/or estimators.
- Process building and Administrative building depicted on the conceptual layout drawing for the preferred alternative, provided as **Attachment 3**, to be constructed of unit masonry blocks with brick facing.
- Soils are of adequate nature to support the structures and equipment with no piling or other ground improvements for support required.
- Disposal of excess soils within twenty-five miles of site
- The facility will have direct operational costs including chemicals, electrical, and staffing, and indirect operational costs including Direct Potable Reuse Responsible Agency (DiPPRA) management and reporting, and Pretreatment Program in coordination with source recycled water provider (Los Angeles County Sanitation Districts). This cost does not include an estimate of operational or life-cycle costs.
- Flow equalization storage for influent supply or produced water from the proposed AWTF, if required, will not be constructed on the identified parcel. Design and estimation of cost for offsite

equalization and conveyance for any process streams including waste, brine, and product water are not included in this evaluation.

## **5.5 Exclusions**

The following items have not been included in the EOPCC for this project.

- Land acquisition costs or financing costs
- Lifecycle and O&M costs
- Hazardous waste removal/remediation and disposal
- Dewatering
- Demolition of existing structures
- Rock excavation
- Coordination with Utility providers
- Removal/relocation of 3<sup>rd</sup> party utilities
- Owner's commissioning expense
- Offsite traffic control
- Offsite waste and brine equalization and conveyance
- Offsite product water equalization and conveyance

## **5.6 Expected Accuracy**

For every level of project definition, there is an expected accuracy range of costs provided. The expected accuracy ranges are used to establish the likely range within which the actual project costs will fall and are used for budgeting purposes. The more developed or defined a project, the narrower the range of expected accuracy. Based on the current level of project development, an Association for the Advancement of Cost Engineering (AACE) classification of Class 5 is most appropriate. A Class 5 opinion of probable cost has an expected accuracy range of -30% to +50%.



**Table 6: AACE Building and General Construction Industries Estimate Classification Matrix**

<b>ESTIMATE CLASS</b>	<i>Primary Characteristic</i>	<i>Secondary Characteristic</i>		
	<b>MATURITY LEVEL OF PROJECT DEFINITION DELIVERABLES</b> Expressed as % of complete definition	<b>END USAGE</b> Typical purpose of estimate	<b>METHODOLOGY</b> Typical estimating method	<b>EXPECTED ACCURACY RANGE</b> Typical variation in low and high ranges <sup>[a]</sup>
<b>Class 5</b>	0% to 2%	Functional area, or concept screening	SF or m <sup>2</sup> factoring, parametric models, judgment, or analogy	L: -20% to -30% H: +30% to +50%
<b>Class 4</b>	1% to 15%	or Schematic design or concept study	Parametric models, assembly driven models	L: -10% to -20% H: +20% to +30%
<b>Class 3</b>	10% to 40%	Design development, budget authorization, feasibility	Semi-detailed unit costs with assembly level line items	L: -5% to -15% H: +10% to +20%
<b>Class 2</b>	30% to 75%	Control or bid/tender, semi-detailed	Detailed unit cost with forced detailed take-off	L: -5% to -10% H: +5% to +15%
<b>Class 1</b>	65% to 100%	Check estimate or pre bid/tender, change order	Detailed unit cost with detailed take-off	L: -3% to -5% H: +3% to +10%

Note: [a] The state of construction complexity and availability of applicable reference cost data affect the range markedly. The +/- value represents typical percentage variation of actual cost from the cost estimate after application of contingency (typically at a 50% level of confidence) for given scope.

## **Attachment 1: Treatment Technologies Table**





## MEMORANDUM

**TO:** Jared Macias, PBWA Administrative Officer, WVWD Asst. GM  
**CC:** Sherry Shaw, WVWD Director of Engineering  
**FROM:** Tyler Abercrombie, P.E.; Greg Sands, P.E.  
**REVIEWED BY:** Kraig Erickson, P.E.; Nate McLaughlin  
**DATE:** February 14, 2024  
**RE:** Table of Potential Treatment Technology Descriptions  
PBWA AWT Facility Preliminary Siting Evaluation

---

At the PBWA Advanced Water Treatment (AWT) Facility Preliminary Siting Evaluation Project kickoff meeting, it was determined that the AWT Facility would be configured for direct potable reuse (DPR) only, using a blended source of groundwater and recycled water from the Pomona Water Reclamation Plant. As part of the evaluation process, it is necessary to define the anticipated process treatment train. Once defined, the treatment train will be further developed and sized to meet the Project's target water supply capacity (Task 2 of the Project work). This ultimately becomes a critical layout parameter when assessing if the target parcel -- an undeveloped lot south of Valley Blvd in the City of Industry -- is a feasible site for an advanced water treatment facility. **Table 1** provides the anticipated treatment processes, listed in process sequential order.

The treatment processes were identified based upon the most recent applicable regulations. Per the Direct Potable Reuse regulations finalized by the California State Water Resources Control Board (SWRCB) on December 19, 2023:

- The sum of the treatment process validated pathogen log reductions for the treatment train shall be at least 20 log for enteric virus, 14 log for *Giardia lamblia* cyst, and 15 log for *Cryptosporidium* oocyst, with an allowance to drop as low as 16/10/11, respectively, for up to 10% of the time in a calendar month.
- The treatment train shall consist of no less than four separate treatment processes for each of the three pathogens. Four treatment processes for each pathogen shall each be credited with no less than 1.0 log reduction, and no single process may be credited with more than 6 log reduction. A single treatment process may receive pathogen log reduction credits for one or more pathogens.
- The treatment train shall consist of no less than three diverse treatment mechanisms each for enteric virus, *Giardia lamblia* cyst, and *Cryptosporidium* oocyst.
- The three treatment mechanisms shall include one membrane physical separation mechanism, one chemical inactivation mechanism, and one UV inactivation mechanism. Additional treatment mechanisms may be used.

**Table 1. Potential Treatment Technology Descriptions**

Treatment Process	Function	Log Removal Value (LRV)*		
		Virus	Giardia	Crypto
Ozone / BAC	"Ozone/BAC" means an ozonation process immediately followed by biologically activated carbon. Ozone removal mechanisms include oxidation and chemical inactivation. BAC removal mechanisms include physical, biological and adsorptive. This process is specifically required pursuant to the SWRCB DPR regulations.	6	6	1
UF	Ultrafiltration is a membrane filtration process that provides physical removal, with pore size in the range of 10nm-100nm. It is necessary to achieve LRVs required for DPR, particularly <i>Crypto</i> requirements.	1	4	4
UV Disinfection	UV Disinfection is included between the UF and RO process trains to achieve the LRVs required for DPR, particularly the virus and <i>Crypto</i> requirements. UV Disinfection is relatively low dose, compared to UV/AOP which also provides oxidation to break down chemical contaminants in addition to pathogen inactivation.	1	5	5
RO	Reverse Osmosis is a membrane filtration process that provides physical removal, with pore size in the range of 0.1-1nm. This process is specifically required pursuant to the SWRCB DPR regulations.	1.5	1.5	1.5
UV/AOP	"UV/AOP" means an ultraviolet light process combined with an advanced oxidation process, typically using hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) as the oxidant. Removal mechanisms include UV inactivation, physical degradation and oxidation. This process is specifically required pursuant to the SWRCB DPR regulations.	6	6	6
Free Chlorine	Disinfection treatment with free chlorine provides removal by oxidation and chemical inactivation. It is necessary to achieve virus LRVs for DPR.	6		
Required LRV		20	14	15
Total		21.5	22.5	17.5

\* As DPR is an emerging water supply strategy, planning-level log removal values are based upon best available information, including guidance from regulators, published research findings, and pilot testing results. Values are continually being refined as DPR becomes more established and prevalent. Actual log removal values are confirmed by demonstrated site-specific validation on a per project basis.

## **Attachment 2: Site Layout Alternative 1**





**Woodard  
& Curran**

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DATE:

SCALE:

DESIGNED BY:

DRAWN BY:

CHECKED BY:

FILENAME:

DRAWING TITLE:

DRAWING NO:

NOTES: SHEET GENERAL NOTES

- DIMENSIONS SHOWN ARE FOR PRELIMINARY PLANNING PURPOSES ONLY.
- EXTERIOR EQUIPMENT FOOTPRINTS SHOWN INCLUDE SPACE FOR ANY NECESSARY EXTERNAL MCC ENCLOSURES.



PROCESS FOOTPRINTS

PROCESS	RECOVERY	FEED FLOW (MGD)	PROCESS FOOTPRINT (SQ. FT.)
OZONE	100%	4.5	1,030
BAF	96%	4.5	3,354
UF	95%	4.3	2,404
UV DISINFECTION	100%	4.1	244
RO	85%	4.1	5,258
UV/AOP	100%	3.5	217
FREE CHLORINE	100%	3.5	3,600



### **Attachment 3: Site Layout Alternative 2 (Recommended Alternative)**





- NOTES:
- SHEET GENERAL NOTES

1.

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2.

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PROCESS FOOTPRINTS			
PROCESS	RECOVERY	FEED FLOW (MGD)	PROCESS FOOTPRINT (SQ. FT.)
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FREE CHLORINE	100%	3.5	3,600

PLAN  
SCALE: 1" = 40'

