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SUPERIOR COURT OF THE STATE OF CALIFORNIA  
FOR THE COUNTY OF RIVERSIDE

Coordination Proceeding Special Title  
(Cal. Rules of Court, rule 3.550)

MOJAVE BASIN AREA WATER CASES

CITY OF BARSTOW, et al.,

Plaintiff,

v.

CITY OF ADELANTO, et al.,

Defendant.

JCCP NO.: 5265  
Lead Case No. CIV 208568

Hon. Craig G. Riemer, Retired Judge of  
the Riverside Superior Court, sitting by  
Assignment of the Chief Justice

**GOLDEN STATE WATER  
COMPANY'S: OPPOSITION TO  
MOJAVE WATER AGENCY'S  
MOTION (1) FOR APPROVAL OF  
PRODUCTION SAFE YIELD  
CALCULATIONS, AND (2) TO  
ADJUST FREE PRODUCTION  
ALLOWANCES FOR WATER YEAR  
2025-2026; AND RESPONSES TO  
COURT'S QUESTIONS AND ISSUES**

*[Filed concurrently with Declaration of  
Stephanie Osler Hastings]*

Date: August 4, 2025  
Time: 1:30 pm  
Dept.: 1

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Golden State Water Company (“**GSWC**”) hereby:

1. Opposes to the Mojave Basin Area Watermaster’s<sup>1</sup> (“**Watermaster**”) Motion (1) for Approval of Production Safe Yield Calculations; and (2) to Adjust Free Production Allowances for Water Year 2025-2026 (“**Motion**”), and

2. Responds to the Court’s questions and issues posed in its October 23, 2024 Order (1) Granting the Motion of [GSWC] to Enforce the Judgment; (2) Establishing a Procedure for Motions to Approve Re-Calculated Production Safe Yield; (3) Posing Questions to Be Answered by the Watermaster in the Next Motion for Adjustments to Free Production Allowance (“**Order**”).<sup>2</sup>

**I. INTRODUCTION**<sup>3</sup>

The Order stems from GSWC’s ongoing efforts to better understand and ultimately address the cause of declining water levels in the Centro Subarea and the associated adverse impacts on Centro Subarea Producers’ groundwater production under the Judgment. Since entry of the Judgment, water levels in the Centro Subarea near Barstow have experienced chronic decline, except in extremely wet years—increasing the water supply and treatment costs for GSWC’s customers. The Judgment’s Physical Solution sought to mitigate declining water levels, but it has not done so. GSWC brought its 2024 Motion to Enforce the Judgment (“**GSWC Motion**”) to require Watermaster to critically evaluate and update Watermaster’s analysis of a fundamental component of the Physical Solution—the Production Safe Yield (“**PSY**”)—based on the best available science, as required by the Judgment. In granting GSWC’s Motion, the Court found that GSWC had presented sufficient evidence to establish probable cause to require Watermaster to conduct further investigation of the calculations required by the Judgment. (Mot., Ex. 2 [Order, p. 2].). In reaching this decision, the Court emphasized that Watermaster must “rely upon and use the best available records and data to support implementation of the Judgment. Where actual records of data are not available, Watermaster shall rely on and use sound scientific and engineering estimates.” (Order, p.

<sup>1</sup> The Mojave Water Agency is the Watermaster. (Judgment, ¶ 23.c.)

<sup>2</sup> As permitted by the Order, additional pages are required to respond to both the Motion and the Court’s questions. (See Order, p. 4 [Mot., p. 21[¶¶ 4-5].)

<sup>3</sup> All defined terms have the same meaning as set forth in the Judgment. All capitalized terms, not otherwise defined, are the same as the terms used in the Judgment.

2, citing Judgment, ¶ 24.w.) Only with this information and analysis can the Parties reasonably assess whether the Physical Solution is being implemented as intended, and if so, but water levels continue to decline, whether amendment of the Judgment may be required.

## II. OPPOSITION TO MOTION TO APPROVE PSY CALCULATIONS

GSWC opposes Watermaster's Motion to the extent it seeks the Court's approval of Watermaster's 2025 PSY calculations without complying with the Order. GSWC does not oppose Watermaster's proposed adjustments to the Free Production Allowances ("FPA") for Water Year 2025-2026.

The Order ordered Watermaster to do all of the following in conjunction with making its Annual Report for Water Year 2023-24 ("**31<sup>st</sup> Annual Report**"):

1. Re-calculate the PSY for the Centro subarea and for the Alto subarea, including the Transition Zone.
2. Re-evaluate both (a) the sufficiency of any factual investigation conducted to quantify the factors to be used in those calculations, and (b) the reliability of any assumptions or estimates that the Watermaster relies upon when empirical data is not available to quantify factors.
3. To draft a report regarding the Watermaster's findings and to include that report in its 31<sup>st</sup> Annual Report.

(Order, p. 1.)

Watermaster's Motion fails to comply with the Order because it does not demonstrate that (1) Watermaster "re-calculated" PSY for the Centro Subarea and Alto Subarea, including the Transition Zone, or (2) "re-evaluated" both the sufficiency of Watermaster's factual investigations to quantify the factors used in the PSY calculations, or the reliability of its assumptions or estimates. Rather, Watermaster's Motion provides additional documentation of its 2024 PSY calculations (except with respect to Oeste), which the Court determined did not satisfy the Judgment. (Order, pp. 1-2.) Further, the record with respect to Watermaster's compliance with Paragraph 3 of the Court's Order is unclear and should be corrected.

Additionally, although not required for another year, GSWC is concerned that Watermaster's failure to fully evaluate the sufficiency of factual investigation and the reliability of underlying assumptions and estimates supporting the PSY calculations leaves Watermaster unprepared to

address the Order’s additional requirements in the 32<sup>nd</sup> Annual Report due May 1, 2026.

**A. Approval of Watermaster’s PSY Calculations Should Be Deferred Until Watermaster Re-Calculates PSY and Re-Evaluates its PSY Factual Investigations And Assumptions**

Watermaster has not re-calculated PSY and re-evaluated its factual investigations and assumptions as required by the Order. Accordingly, approval of the 2025 PSY calculations should be deferred and Watermaster should be directed to perform the PSY re-calculation and re-evaluation and report the results—no later than in the 32<sup>nd</sup> Annual Report.

**1. The Motion Does Not Show that Watermaster Re-Calculated or Re-Evaluated PSY; Instead It Documents Watermaster’s 2024 PSY Calculations**

The Declaration of Robert C. Wagner (“**Wagner Declaration**”) (Mot., Ex. 3, [Mot. pp. 26-77]<sup>4</sup>) documents the Watermaster Engineer’s calculation of the 2024 PSY for the Centro Subarea and Alto Subarea, including the Transition Zone, but it does not demonstrate that the Watermaster “re-calculated” and “re-evaluated” PSY, as required by the Order. (Mot., pp. 26:1-59:15.) In fact, the Watermaster Engineer states that it “does not have significant new information to warrant re-evaluation” (Mot., p. 40:12 [re Alto Subarea]) and arrives at the exact same numeric values for the PSY in each Subarea as it did in 2024 (except for Oeste). (Compare Mot., p. 9 to 58:11-17.) Although the Motion does not include a “Table 5-1,” which is the usual location of the Watermaster Engineer’s PSY calculations, the information presented confirms that none of the many assumptions, estimates, and calculations used to calculate the PSY for the Alto and Centro Subareas have changed. (See, e.g., Mot. pp. 34-41; see also Motion, pp. 68-69 [presenting hydrologic inventory tables similar to Table 5-1].)

During various Watermaster meetings and workshops, GSWC raised concerns about Watermaster’s progress in meeting the Order’s requirements and provided written comments. (Mot., pp. 143-171.) The Motion does not address GSWC’s comments specifically, so it is somewhat unclear whether Watermaster responded to GSWC concerns. First, GSWC raised concerns with the sufficiency of the Watermaster Engineer’s manual analysis of water levels in the Transition Zone

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<sup>4</sup> References to the Motion refer to the sequential page numbers. (Order, p. 4 [¶ 4].)

1 and Centro Subarea near the Transition Zone. Contrary to Watermaster Engineer’s analysis  
2 aquilogic, Inc. (“**aquilogic**”) found that many of the wells in this area have not experienced a  
3 statistically significant increase in water levels since implementation of the Judgment. (See Mot.,  
4 pp. 147, 151-158.) This concern was echoed by other parties as well. (See Mot., pp. 96-102, 152-  
5 159.)

6 Watermaster Engineer partially addressed this concern and updated its analysis of water  
7 levels in the Transition Zone—concluding that 70 to 80% of wells had increasing trends or no change  
8 in water levels over various periods. (Mot., pp. 66:27-67:7, 372-389, 392-394.) But the Watermaster  
9 Engineer still has not addressed the fact that 20 to 30% of wells within the Transition Zone have  
10 statistically significant decreasing trends or how these decreasing trends may affect the PSY  
11 analysis. (Mot., pp. 66:27-67:7, 372-389, 392-394.) Further analysis of statistically significant  
12 declining water level trends in the Transition Zone is required to support Watermaster’s assumption  
13 that the Transition Zone serves as a “water bridge” between the Alto and Centro Subareas. (Mot.,  
14 pp. 66:1-5, 195.)

15 Second, GSWC raised concerns that the Watermaster Engineer continues to defer a  
16 meaningful re-calculation of the Centro PSY until it finalizes the Regional Mojave Basin Model  
17 (“**RMBM**”). (Mot., p. 146.) Watermaster had previously “committed to revise the model by the end  
18 of [2024] by extending it to include the Transition Zone, the Centro subarea, and the Baja subarea.”  
19 (Order, p. 2.) Yet, at the March 12, 2025 Watermaster Workshop, staff stated that **the model would**  
20 **not be released until next year—i.e., 2026.** (Motion, p. 146; 31<sup>st</sup> Annual Report, p. 16 [RMBM  
21 “work will continue through 2024-25.”].) As discussed below in Sections II.A.2 and II.B.2, GSWC  
22 strongly supports Watermaster’s expansion and use of the RMBM, but has significant concerns that  
23 re-calculation of the PSY continues to be deferred to the future.

24 Further, the Order also directs Watermaster to evaluate the “sufficiency of any factual  
25 investigations” and the “reliability of any assumptions or estimates” in the factors supporting the  
26 PSY calculations. (Order, p. 1 [¶ 2].) This re-evaluation is necessary; otherwise, the Court has “no  
27 basis for determining that the Watermaster’s PSY recommendations were based on the best data  
28 reasonably available and the estimates that best reflect current science, as the Judgment requires.”

(Order, p. 3.) Yet, after review of various technical studies, some of which arrive at different values for various PSY factors, the Watermaster Engineer arrived at the exact same 2024 PSY values.

For example, Watermaster Engineer’s use of satellite-based remote sensing tools to update consumptive use values for Phreatophytes changed Watermaster’s estimates of Transition Zone phreatophyte uses by 178 acre feet (“AF”), yet the overall PSY value for the Transition Zone remains unchanged. (Order, p. 7; compare Mot., p. 183 [the 2024 Watermaster PSY estimates table with the Transition Zone phreatophyte uses as 6,000 AF] to Mot., pp. 68:16-23, 69:16-23 [using 6,178 AF as the estimated use by riparian habitat in the Transition Zone].) Watermaster Engineer’s position appears to be that the 178 AF change is nominal—effectively no change (Mot., p. 37:19-26)—but given that the Watermaster Engineer’s water budget is perfectly balanced, one would expect that *any* change would result in a change in the PSY, even a nominal one.<sup>5</sup> (Mot., p. 39:2-10; see also Mot., pp. 68:5-23, 69:1-19, 183 [various water budget calculations].) GSWC reasonably anticipated that the Order contemplated that the Watermaster perform a sensitivity analysis of the final PSY amounts given the range of values identified in the factual investigations and assumed or estimated values for the various PSY factors.

Absent a meaningful new analysis of the underlying studies and the reliability of the several assumptions and estimates that make up the PSY calculation for each subarea, Watermaster’s analysis fails to comply with the Order.

## **2. Watermaster Should Re-Calculate and Re-Evaluation PSY Upon Completion of the RMBM**

Contrary to Watermaster’s commitments and the Court’s expectations (see Order, p. 2 [expressing expectation that the PSY will be updated when the model is updated prior to the next annual report]), Watermaster Engineer’s update of the RMBM model expansion efforts remain unfinished. As a result, Watermaster continues to defer re-calculation of the PSY for the Centro and Alto Subareas. (See Mot., p. 38:17-19 [Alto Subarea]; Mot., p. 57:22 [“The Centro Subarea PSY . .

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<sup>5</sup> GSWC agrees that PSY should be set at a specific number, but it remains befuddling that Watermaster’s analysis arrives at perfectly balanced water budgets, the same PSY numbers, and provides no estimate of the margin of errors or its confidence in the calculations. (Compare Mot., p. 9 to 58:11-17; see, e.g., Mot., pp. 183, 68:16-23, 69:16-23.)

1 . will be updated with new information provided by the RMBM.”].)

2 The Watermaster Engineer appears to commit to re-calculating the PSY when the model  
3 update is complete. For example:

4 While calculation of outflow from Alto (TZ) to Centro is reliable, it is expected  
5 that the RMBM will provide an improved calculation of outflow, both surface  
and subsurface at the Helendale Fault.

6 (Mot., p. 38:17-19.)

7 The UMRBM is being expanded and is expected to be used for the next  
8 Watermaster cycle for determining PSY in Alto, Centro, Oeste and Baja. The  
9 RMBM will include the TZ and will calculate directly the outflow at the  
10 Helendale Fault. The calculated flow at the Helendale Fault will be used as the  
surface and subsurface inflow to Centro through the Transition Zone. **The  
modeled flow at the Helendale Fault will be an important factor in  
determining the PSY for both Alto and Centro.**

11 (Mot., p. 57:2-8 [emphasis added].)

12 But it is not entirely clear when and how the Watermaster Engineer plans to re-calculate PSY  
13 when the RMBM model is released. Accordingly, to ensure that the RMBM’s PSY calculations  
14 comply with the Order and Paragraph 24.w of the Judgment, GSWC respectfully requests that the  
15 Court order Watermaster to provide for an open, public review process for the model, its underlying  
16 data, and calibration results, including simulated and observed hydrographs (native files), residual  
17 plots, and calibration statistics, to allow for a clear understanding of the sufficiency of the factual  
18 data and underlying assumptions used to develop the model and calculate PSY under the Judgment.

19 **3. Watermaster’s Report Regarding Its PSY Findings Is Not Properly**  
20 **Included In The 31<sup>st</sup> Annual Report, As Required**

21 Finally, it does not appear that Watermaster’s report documenting its compliance with  
22 Paragraphs 1 and 2 of the Court’s Order is included in the Watermaster’s 31<sup>st</sup> Annual Report, as  
23 required. (See Order, ¶ 3.) The Watermaster’s April 23, 2025 public hearings on setting FPA for  
24 Water Year 2025-26 and adopting the 31<sup>st</sup> Annual Report did not contain a proposed PSY for any  
25 of the subareas.<sup>6</sup> On June 11, 2025, Watermaster held a “Workshop” at which the Watermaster

26 <sup>6</sup> See Watermaster, Agenda (Apr. 23, 2025) available [https://mojavewater.granicus.com/Generated](https://mojavewater.granicus.com/GeneratedAgendaViewer.php?view_id=2&clip_id=1435)  
27 [AgendaViewer.php?view\\_id=2&clip\\_id=1435](https://mojavewater.granicus.com/GeneratedAgendaViewer.php?view_id=2&clip_id=1435) (accessed on July 22, 2025); Watermaster, Public  
28 Hearing to receive comments and adopt proposed recommendation of [FPA] for Water Year 2025-  
26, Presentation, p. 40 [https://mojavewater.granicus.com/MetaViewer.php?view\\_id=](https://mojavewater.granicus.com/MetaViewer.php?view_id=2&clip_id=1435&meta_id=118093)  
[2&clip\\_id=1435&meta\\_id=118093](https://mojavewater.granicus.com/MetaViewer.php?view_id=2&clip_id=1435&meta_id=118093) (listing “Proposed PSY” as “TBD” for all Subareas) (accessed



Engineer's May 30, 2025 Memorandum from the Watermaster Engineer to the Mojave Basin Area Watermaster re. Production Safe Yield Re-calculation Per Court Order ("May 30, 2025 Tech Memo")<sup>7</sup> was discussed but not acted on,<sup>8</sup> and a Special Meeting to "receive comments and adopt Free Production Allowance for the Este Subarea of 45% of BAP for Water Year 2025-26."<sup>9</sup> Watermaster filed a Notice of Lodging of the Thirty-First Annual Report of the Mojave Basin Area Watermaster, Water Year 2023-2024, but a copy of the 31<sup>st</sup> Annual Report is not included in copy served on the Parties by Watermaster. The Watermaster's website includes a copy of the May 30, 2025 Tech Memo, but none of the identified 10 exhibits.<sup>10</sup> If not already, a complete copy of the 31<sup>st</sup> Annual Report and the report required by Paragraph 3 of the Court's Order should be lodged with the Court and served on all parties.

**B. Watermaster Remains Obligated to Prepare a Plan to Improve Hydrologic Data Collection for PSY Calculations For the 2024-25 Annual Report**

The Order also requires that Watermaster:

4. To recommend a plan to improve the collection of hydrologic data that would be relevant to calculations of PSY in the future. In doing so, to consider the recommendations contained in Section 6. 0 of the report of Anthony Brown which marked Exhibit 1 to Golden State's motion filed 9-5-24, except that paragraph 4 on page 32 GSWC 34) is modified to read: "Based on results from the above, Watermaster should determine whether Producers in Alto have met, are currently meeting, and in the future are likely to continue to meet their obligations under the Judgment."

5. To recommend a timeline by which the recommended plan could reasonably be implemented.

6. To include both the plan and the timeline in the Watermaster's [2024-25 Annual Report].

(Order, pp. 1-2; see also Judgment, ¶ 24.e [requiring Watermaster to collect data as may be necessary to carry out the Judgment].) GSWC recognizes that Watermaster's hydrologic data collection plan is not due until the 2024-25 Annual Report. However, in light of GSWC's concerns about deferral

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on July 22, 2025).

<sup>7</sup> The May 30, 2025 Tech Memo appears to be nearly identical to the Wagner Declaration.

<sup>8</sup> The Watermaster Engineer is not the Watermaster. (Judgment, ¶ 23.c.)

<sup>9</sup> See Watermaster, Agency Calendar, available at <https://www.mojavewater.org/about-mwa/agency-calendar/meetings/> (accessed on July 21, 2025).

<sup>10</sup> See Watermaster, Watermaster Annual Report for Water Year 2023-24, <https://www.mojavewater.org/wp-content/uploads/2025/06/31AR2324.pdf> (accessed on July 21, 2025).

1 of the PSY re-calculation and re-evaluation, Watermaster Engineer should address all of the  
2 following items in the plan required by Paragraph 4 of the Order. (See Order, p.1.)

3 **1. The Plan Should Include Release of the RMBM and a Schedule to**  
4 **Improve the Use of the Model.**

5 As discussed above in Section II.A.2, GSWC agrees that the RMBM update should be  
6 completed as expeditiously and accurately as possible.

7 GSWC respectfully asks that the Court request a plan and timeline for the development and  
8 public release of the RMBM, no later than the 32<sup>nd</sup> Annual Report. The Court-ordered plan should  
9 detail the schedule for public release of the RMBM, including allowing sufficient time for public  
10 review, a schedule for use of the RMBM to update PSY for all Subareas, and a plan to improve data  
11 collection to support model development.

12 **2. The Plan Should Further New Evaluate Geophysical Data.**

13 Watermaster's recent geophysical investigations revealed that there "might be subsurface  
14 groundwater flow gradients from the Helendale Fault area into Centro, to the northwest side of Iron  
15 Mountain in the direction of Harper Dry Lake." (Mot., p. 41:16.) Despite the fact that Watermaster  
16 staff acknowledged the information was "eye opening" and that there were almost no monitoring  
17 wells or analysis of water levels in Iron Mountain area (Mot., pp. 147-148), the Watermaster  
18 Engineer dismisses the potential importance of this new information by concluding that the  
19 information does not represent a "changed condition"—e.g., the conditions below the surface always  
20 existed. He goes on to conclude that this information "does not change the PSY for the Centro  
21 Subarea because Harper Lake is part of Centro." (Mot., p. 41:16-17, 41:23-25.)

22 Given that the majority of Centro Subarea Producers are located in the Barstow area, *away*  
23 from the hydrologically isolated Harper Lake Basin, a material change in the Judgement's  
24 assumptions about the physical mechanism of replenishment of the Centro Subarea may have a  
25 significant effect on Centro Subarea Producers and implementation of the Judgment. (See also  
26 Judgment, Ex. F, ¶ 5, 8 [barring transfers between Harper Lake Basin and other Centro Subarea  
27 Producers].) Although Watermaster Engineer has better documented historical estimates of  
28 subsurface inflow into the Centro Subarea from the Transition Zone (see Mot. pp. 49:3-10, 234-

246), more should be done with this new information. For example, Watermaster Engineer does not evaluate the relative portions of subsurface inflow toward Harper Lake Basin and Barstow area. If Watermaster’s prior hydrogeologic conceptual model had 80% of subsurface inflows (1,600 AF) flowing toward Barstow and 20% of inflows (400 AF) flowing toward the Harper Lake Basin, when in fact those numbers are reversed, it calls into question the validity of a fundamental assumption about the flows within the Centro Subarea and availability of inflows for the majority of Centro Subarea Producers (Mot., p. 27:15-16 [“For the Centro Subarea, PSY was determined according to the practice of Watermaster **since before entry of Judgment and as part of the development of the Judgment. . .**”] [emphasis added]), which in turn may require changes to management under the Judgment, including the Centro Subarea PSY calculations. (*Lemoge Electric v. County of San Mateo* (1956) 46 Cal.2d 659, 663 [holding doctrine of mutual mistake authorizes revisions of a contract to reflect the true intention of the parties]; *Renshaw v. Happy Valley Water Co.* (1952) 114 Cal.App.2d 521, 524 [allowing reformation of a judgment or decree when the instrument fails to express the parties’ true intentions].)

Absent further analysis, the Parties cannot fully understand the implications of the new geophysical investigation for management under the Judgment, including whether the calculation of inflows to the Centro Subarea reflects the “best available records and data to support the implementation of this Judgment” or “sound scientific and engineering estimates.” (Judgment, ¶ 24.w.) As a result, the Court-ordered plan should include further technical analysis of this data to ensure that the Judgment remains protective of Centro Subarea Producers.

### 3. The Plan Should Consider Direct Measurement of Centro Subarea Inflows and Alternative Scientific and Engineering Estimates.

In the Order, the Court summarized Watermaster’s positions as follows:

Similarly, the Watermaster said that **it will study the possibility of using remote sensing to measure surface flow** and the Watermaster is not opposed to using remote sensing technologies to measure consumptive agricultural use. At some unspecified date after February of 2022, the Watermaster installed a new stream flow gage at Hinkley Road, apparently at the urging of Golden State. **The Watermaster may be able to recommend other ways in which the hydrologic data can be enhanced at a reasonable cost.** Certainly, **nowhere in the Watermaster’s opposition does the Watermaster contend that it is impossible to enhance the collection of relevant data at a reasonable cost.**

(Order, p. 3 [citations omitted and emphasis added].) Yet, Watermaster’s response to the Court’s questions about whether measurements of surface water flows at the Helendale Fault is infeasible dismisses options to measure surface water. (See Mot., pp. 71:11-72:2.) The Watermaster also expresses skepticism over the re-establishment of gages, while simultaneously relying on the data collected by the U.S. Geological Survey gage near Hodge to support its 2024 PSY calculations. (Compare Mot., pp. 71:14-15 to 70:16-25, 396.) GSWC questions why a Helendale Fault gage is unnecessary and infeasible while the Watermaster finds the Hodge gage useful for its PSY analyses.

Further, the Watermaster Engineer fails to acknowledge that alternate scientific and engineering estimates are available. (See Mot., pp. 71:11-72:2.)

Building on the evidence GSWC had produced in support of the GSWC Motion, following the Court’s Order to Re-Calculate, GSWC proactively investigated opportunities to generate sound scientific and engineering estimates of surface water flows in the Mojave River using remote sensing technologies and artificial intelligence (“AI”) and shared that information with the Watermaster. (Declaration of Stephanie Hastings, ¶ 4, Ex. 1 [Ltr. from S. Hastings to A. Anabtawi and R. Wagner re Introduction to Upstream Tech and HydroForecast (Dec. 13, 2024) (“**Hastings Letter**”)].) The Hastings Letter introduced Watermaster to Upstream Tech, a company that produces “AI hydrology models” that “have been deployed widely in data sparse and ungauged watersheds in California and beyond to help reduce hydro-blind zones.” (See Hastings Letter; see also Mot., pp. 150-151 [aquilogic explaining potential benefits of Upstream Tech’s tools], 160-161.) Notably, Upstream Tech’s tools can be calibrated to existing stream gages and create input data to independently validate other groundwater models, like the proposed RMBM. (Mot., p. 161.)

Watermaster committed to study the possibility of using remote sensing to determine surface water flow estimates (Order, p. 3), and hosted a presentation by Upstream Tech at its workshop on February 5, 2025 (Mot., p. 26:11-12), but the Motion does not include any discussion of the feasibility of using Upstream Tech’s quantitative surface water flow determination technologies (or any other remote sensing or AI technology) to estimate surface flows in the absence of measured data to support a better understanding the hydrology of the Mojave River or to verify the parameters of the RMBM. Even if Watermaster investigated the use of remote sensing and AI technologies for

1 these purposes, and dismissed it as infeasible, Watermaster’s report in response to Paragraph 3 of  
2 the Court’s Order to Re-Calculate should include an explanation of why.

3 The plan required by Paragraph 4 of the Court’s Order should fully explore opportunities to  
4 measure or employ remote sensing and AI technologies to estimate surface water flows across the  
5 Helendale Fault.

6 **C. CONCLUSION**

7 The Motion seeks approval of the Watermaster Engineer’s 2025 PSY calculations. (Mot., p.  
8 6.) For all of the reasons stated herein, that approval is premature and should be deferred, again, until  
9 Watermaster recalculates the PSY, re-evaluates the sufficiency of its factual investigations and the  
10 reliability of its assumptions and estimates, and produces its plan for improving the collection of  
11 hydrologic data that is relevant to calculation of PSY for each of the Subareas—all as required by  
12 the Court’s Order. Specifically, in response to GSWC’s concerns and objections, Watermaster  
13 should:

- 14 1. re-calculate and re-evaluate PSY for the Centro Subarea and Alto Subarea, including the  
15 Transition Zone consistent with the Order and the Judgment;
- 16 2. clarify its expectations regarding the Court-ordered hydrologic data collection plan,  
17 including that the RMBM and underlying data should be made publicly available with  
18 sufficient time and documentation for the Parties and Court to understand its accuracy and  
19 limitations, and
- 20 3. undertake further evaluation of (a) the recent geophysical data suggesting flaws in  
21 fundamental assumptions in the Judgment and (b) the technical merits of remote sensing and  
22 AI technologies for determining stream flow, along with the feasibility of surface water  
23 gages, and provide explicit reasons why these technologies can or cannot be used to  
24 determine stream flow at the Helendale Fault.

1 **III. GSWC'S RESPONSES TO THE COURT'S QUESTIONS AND ISSUES IDENTIFIED**  
2 **IN THE ORDER**

3 GSWC's responses to the Court's questions and issues to be addressed in the context of  
4 considering Watermaster's Motion are included in this section. Where GSWC objects to or otherwise  
5 disagrees with the Watermaster Engineer's responses, as set forth in the Wagner Declaration, those  
6 objections or disagreements are noted.

7 The Judgment declares and adjudicates the "rights to reasonable and beneficial use of water  
8 by Parties in the Mojave Basin Area pursuant to Article X, Section 2 of the California Constitution."  
9 (Judgment, ¶ 1.) To that end, the Judgment's Physical Solution is "based upon a declaration of water  
10 rights and a formula for Intra- and Inter-Subarea allocation of rights and responsibilities" and will  
11 "allow the public water supply agencies and individual water users within each hydrologic Subarea  
12 to proceed with orderly water resource planning and development." (Judgment, ¶ 3.) The Parties  
13 agreed:

14 It is essential that **this Physical Solution provide maximum**  
15 **flexibility and adaptability in order that the Court may be free to**  
16 **use existing and future technological, social, institutional and**  
17 **economic options in order to maximize reasonable beneficial use**  
18 **of the waters of the Basin Area.** To that end, the Court's retained  
19 jurisdiction may be utilized where appropriate, to supplement the  
20 Physical Solution.

21 (Judgment, ¶ 21 [emphasis added].) Accordingly, the Court is empowered to conduct a de novo  
22 review of all determinations by the Watermaster and to provide further direction to the Watermaster  
23 as may be necessary to implement the Judgment's physical solution. (Judgment, ¶¶ 19, 36.d.) The  
24 following section restates the Court's questions and issues in the headings followed by GSWC's  
25 responses.<sup>11</sup>

26  
27  
28 <sup>11</sup> In some cases, the headers have been cleaned up for readability.

1           A.       **GSWC Responses to Court's Questions**

- 2                   1.       **If the motion describes the production of nonparties: a. What is the**  
3                               **significance of that production to the Court's consideration of proposed**  
4                               **changes to the FPA of parties? b. Does "Producer" as defined in the**  
5                               **judgment include nonparty pumpers? c. Does "Free Production**  
6                               **Allowance," as defined in the judgment, include water pumped by**  
7                               **nonparty pumpers? d. Does the judgment require the Court to consider**  
8                               **nonparty production when determining whether, and to what extent, the**  
9                               **FPA of the parties to the judgment should be reduced? If not, does it**  
10                              **allow the Court to do so?**

11               GSWC does not dispute Watermaster Engineer's response and lacks the requisite  
12               information to evaluate Watermaster Engineer's assumptions related to Minimal Producers. (Mot.,  
13               p. 59:20-61:18.)

- 14                   2.       **Exhibit G, paragraph 1, refers to "average Annual and minimum Annual**  
15                               **Subsurface Flows and/or Base Flows per Year." Does the Judgment set a**  
16                               **minimum annual subsurface flow that must be met each year, or only**  
17                               **establish the requisite average annual flows?**

18               The Judgment sets both a minimum annual subsurface flow that must be met each year and  
19               establishes the requisite average annual flows. The Judgment defines "Base Flow" to mean surface  
20               flows at the Lower Narrows less Storm Flows. (Judgment, ¶ 4.h.) The Judgment contains various  
21               provisions that show Subareas must receive both "average annual water supplies" and minimal  
22               Annual Subsurface Flow. (See Judgment, ¶¶ 4.r, 13, Ex. G, ¶ 1; see also Mot., pp. 89-90 [Fennemore  
23               Comment Letter].) Specifically, for the Centro Subarea, Alto Subarea Producers have "**an average**  
24               **Annual** combined Subsurface Flow and Base Flow of 23,000 [AF] per year [obligation] to the  
25               Transition Zone . . . In any Year Alto Subarea Producers shall have an obligation to provide the  
26               Transition Zone **a minimum** combined Subsurface Flow and Base Flow" based on certain  
27               conditions. (Judgment, Ex. G, ¶ 1.e [emphasis added].)

28               The Watermaster's Engineer's responses to this question are mixed and inconsistent.  
Specifically in response to this question, Watermaster Engineer states that "Producers are required  
to meet one of the two options, but not both." (Mot., p. 61:25.) However, elsewhere, the Motion  
states: "In addition, Producers within certain Subareas have rights as against those in adjoining  
upstream Subareas **to receive average annual water supplies and in any one year to receive**  
**minimum annual water supplies equal to the amounts set forth in Exhibit G of the Judgment**

1 **in addition to any storm flows.”** (Mot., p. 4:21-22 [emphasis added].)

2 Additionally, in his response, Watermaster Engineer also makes assertions that the Judgment  
3 does not require any ongoing study or evaluation of Subsurface Flow across Subareas. (Mot., p.  
4 64:13-18.) Not so. The Judgment requires Watermaster to “rely upon and use the best available  
5 records and data to support the implementation of this Judgment. Where actual records of data are  
6 not available, Watermaster shall rely on and use sound scientific and engineering estimates.”  
7 (Judgment, ¶ 24(w), see also *id.* at ¶ 24(e) [requiring Watermaster to collect data as may be necessary  
8 to carry out the Judgment].) Claiming that the Judgment does not require any further study of  
9 Subsurface Flows—beyond what occurred nearly three decades ago—ignores Watermaster’s  
10 obligations under the Judgment. (See, e.g., Judgment, ¶¶ 19, 21.)

11 **3. The Watermaster has stated that, except for consumptive uses in the TZ,**  
12 **all the water that flows into the TZ passes the Helendale Fault into the**  
13 **Centro subarea. a. Is that conclusion true for both surface and**  
14 **subsurface flows? b. Are there measurements that supports that**  
15 **conclusion? c. What other evidence supports that conclusion?**

16 For the reasons articulated in the GSWC Motion, and in this Opposition (Section II.A.1),  
17 GSWC disputes that Watermaster has presented sufficient evidence (see Mot., pp. 65:6-66:25) to  
18 conclude that all surface and subsurface flows that enter the Transition Zone more likely than not  
19 flow into the Centro Subarea. (See also Order, p. 2 [finding probable cause for further investigation  
20 regarding Watermaster’s PSY calculations].) While it may be true that a substantial portion of the  
21 surface and subsurface flow into the Transition Zone flows into the Centro Subarea, GSWC disputes  
22 that the Watermaster Engineer’s continued reliance of stable water levels in the Transition Zone  
23 (Mot., p. 65:6-28) are dispositive of this issue, as he alludes to in his response to question 3.a. Such  
24 a conclusion also conflicts with Watermaster Engineer’s findings that up to 20-30% of the wells in  
25 the Transition Zone may have and may still be experiencing falling water levels (Mot., pp. 66:27-  
26 67:7, 372-389, 392-394) and instead show a potentially more complex hydrologic system that belies  
27 Watermaster Engineer’s simple water budget methodology.

28 The Watermaster Engineer’s response to question 3.a includes nonresponsive information  
about assumptions and interpretations of the Judgment. (See Mot., pp. 66:1-25.) Whether all surface  
and subsurface flows pass through the Transition Zone is a factual matter. Extraneous interpretations



1 of the Judgment, such as the Watermaster Engineer’s argument about Subarea Obligations, and  
2 Replacement and Makeup Obligations (see *ibid.*), are not responsive to the Court’s question and  
3 outside the Watermaster Engineer’s expertise. (*Downer v. Bramet* (1984) 152 Cal.App.3d 837, 841  
4 [“An expert is not allowed to testify to legal conclusions in the guise of expert opinion. Such legal  
5 conclusions do not constitute substantial evidence.” (quotations omitted)]; see also *Tri-State Mfg.*  
6 *Co. v. Superior Court* (1964) 224 Cal.App.2d 442, 445; *Ware v. Stafford* (1962) 206 Cal.App.2d  
7 232, 237-38 [stating declarations must state evidentiary facts rather than ultimate facts or legal  
8 conclusions].)

9 As noted above, Watermaster Engineer’s response to 3.b (see Mot., pp. 66:26-70:28) also  
10 fails to analyze objectively whether the water level evidence cited above, fully supports his  
11 conclusion.

12 With respect to the Watermaster Engineer’s discussion of the Lower Narrows and Hodge  
13 gage data, GSWC agrees that the Water Years 2022-23 and 2023-24 data may support the  
14 Watermaster Engineer’s position with respect to surface flows. (Mot., pp. 67:20-70:28.) However,  
15 Watermaster Engineer’s explanation of why stream flow at the Hodge gage may be higher or lower  
16 than adjusted stream flow at the Lower Narrows gage is conjecture without sufficient gage data at  
17 the Helendale Fault or equivalent stream flow determinations via the use of remote sensing and/or  
18 AI technologies. (See *ibid.*) As discussed above in Section II.B.3, GSWC supports the establishment  
19 of surface water gages and the use of remotes sensing and/or AI technologies, especially across the  
20 Helendale Fault to better evaluate the surface flows along the Centro Subarea and Transition Zone  
21 boundary.

22 Consistent with the Court’s 1996 Amended Statement of Decision (“Statement of Decision”)  
23 (Mot., p. 195-196), additional monitoring wells likely would have similar benefits for understanding  
24 the surface and subsurface flows between the Centro Subarea and Transition Zone. Currently,  
25 monitoring wells are located within the lower portion of the Transition Zone. (see Mot., pp. 246,  
26 373-389.) The density of the monitoring well network likely would help refine the water levels and  
27 cross-sectional area of the aquifer, thereby improving Watermaster’s method to measure flow  
28 gradient across the area and estimate Subsurface Inflows into the Centro Subarea. (Mot., p. 237-

238.)

Watermaster's response to question 3.c lacks sufficient detail to confirm whether the measurements support the Watermaster Engineer's conclusion and GSWC lacks the resources to independently verify these data. (Mot., p. 71:1-10.)

**4. If one wanted to measure surface flow from the TZ into Centro, could that be done? If so, how? To what extent, if any, does the Watermaster currently do so?**

Watermaster Engineer's response does not fully respond to the Court's questions. (Mot., pp. 71:13-72:2.) The Watermaster Engineer's responds that "Hypothetically, if one wanted to measure flows at this location, a stream flow gage could be installed to record flow at this location. However, the reliability of the data would be subject to the same historical problems experienced by previously installed gages at Wild Crossing and Hodge." (Mot., p. 71:13-15.) As noted above in Sections II.B.3 and III.A.3, Watermaster Engineer provides conflicting statements with respect to the viability and use of the re-established Hodge gage to support implementation of the Judgment.

The response further fails to answer "how" a stream gage could be installed in the vicinity of the Helendale Fault, such as whether a viable site for a gage exist. Also, the response fails to consider alternative methods to assess surface flow across the Helendale Fault, such as remote sensing or AI technologies. (See Section II.B.3.)

**5. The Watermaster has said that the Wild Crossing stream gage was discontinued because it was unreliable. What was the reason for the unreliability?**

GSWC does not have any additional information for the Court.

**6. If one wanted to measure subsurface flow from the TZ into Centro, could that be done? If so, how? To what extent, if any, does the Watermaster currently do so?**

GSWC agrees that measurement of surface inflows from the Transition Zone into the Centro Subarea may be infeasible. (Mot., p. 72:13-16.) However, GSWC responds that the Watermaster Engineer's response ignores that a sufficient monitoring well network is required to evaluate the groundwater gradient across the fault zone to estimate or model surface flow. Identifying allocation monitoring well locations as part of the Court-order hydrologic data collection plan likely would improve estimates of subsurface flow into the Centro Subarea.

7. **Other than precipitation, does all inflow into Centro come from the TZ?**

GSWC does not have any additional information for the Court.

8. **a. Is the 1931-1990 timeframe representative of the climate in the basin today? b. How long is “long term?” 20 years? 30 years? 40 years? Longer? c. Should the Court establish a different base period to be used when adjusting PSY and FPA and when questioning the accuracy of the Watermaster's model or recommendations? If so, when should that period begin and end?**<sup>12</sup>

GSWC generally agrees with the Watermaster Engineer that the Department of Water Resources Bulletin 84 provides an appropriate framework for selecting a hydrologic base period, with the understanding that it may be appropriate to change the base period over time on a case by case basis based on new information and changing cultural conditions. (Mot., pp. 74:4-76:2.) Watermaster should evaluate the hydrologic base period on a regular basis and recommend changes in accordance with its obligations under the Judgment. (See, e.g., Judgment, ¶ 24,w.)

**B. GSWC's Response to Issues Relevant to the Motion**

GSWC provides the following brief responses to the additional issues posed by the Court in its Order. (Mot., pp. 23-24.)

1. **The Watermaster has stated that “the Alto Subarea Producers have met their Subarea Obligations.” What are those obligations? In particular: A. What obligations if any does the Alto subarea as a whole owe to Centro? B. Water obligations if any does the Transition Zone owe to Centro?**

The Judgment sets forth rights and obligations between Subareas:

In the aggregate, Producers within certain Subareas have rights, as against those in adjoining upstream Subareas, **to receive average Annual water supplies** and, **in any one Year, to receive minimum Annual water supplies** equal to the amounts set forth in Exhibit “G”, in addition to any Storm Flows. In turn, in the aggregate, Producers within certain Subareas have an obligation to provide to adjoining downstream Subareas such average Annual water supplies in the amounts and in the manner set forth in Exhibit “G”. [. . .] Producers in each of the Subareas have rights in the aggregate, as against each adjoining downstream [. . .] to divert, pump, extract, conserve, and use all surface water and Groundwater supplies originating therein or accruing thereto, and **so long as the adjoining downstream Subarea Obligations are satisfied** under this Judgment and there is compliance with all of its provisions.

(Judgment, ¶ 13 (emphasis added).) “Subarea Obligation” means “[t]he average Annual amount of

<sup>12</sup> Prefatory comments omitted.

1 water that a Subarea is obligated to provide to an adjoining downstream Subarea or the Transition  
2 Zone . . .” (Judgment, ¶ 4.jj.) The Judgment also defines a “Minimum Subarea Obligation” as: “[t]he  
3 minimum Annual amount of water a Subarea is obligated to provide to an adjoining downstream  
4 Subarea or the Transition Zone. . . as set forth in Exhibit “G.” (Judgment, ¶ 4.r.) The Transition  
5 Zone is defined as a “portion of the Alto Subarea, shown on Exhibit “A,” that lies generally between  
6 the Lower Narrows and Helendale Fault.” (Judgment, ¶ 4.mm.) The boundary between the Centro  
7 Subarea and the Alto Subarea, which includes the Transition Zone, is the Helendale Fault. (See  
8 Judgment, Ex. A.)

9 For the Alto Subarea’s obligation to the Centro Subarea, Paragraph 1 provides:

10 Producers in the respective Subareas shall have the obligation to  
11 provide the following average Annual and minimum Annual  
Subsurface Flows and/or Base Flows per Year: [. . .]

12 Alto Subarea Producers--an average Annual combined Subsurface  
13 Flow and Base Flow of 23,000 acre-feet per Year to the Transition  
14 Zone. For the purposes of Paragraph 6 of this Exhibit G [Subsurface  
Flow Assumptions], the Subsurface Flow component shall be deemed  
to be 2,000 acre-feet per Year.

15 (Judgment, Exh. G, ¶ 1, 1.e.) Exhibit G establishes an initial estimate of 2,000 AF per Year for  
16 Subsurface Flow, thereby establishing a Base Flow of 21,000 AF per Year to the Transition Zone  
17 boundary.<sup>13</sup> (See Judgment, Exh. G, ¶¶ 1.e, 6; see also Judgment, Ex. C, ¶ A.) The Subsurface Flow  
18 and Base Flow amounts serve as the Alto Subarea’s obligation to the Centro Subarea via the  
19 Transition Zone. (Judgment, Exh. G, ¶ 1.e.)

20 As noted in the Wagner Declaration (e.g., Mot., p. 62:16-21), the Statement of Decision  
21 explains that the Alto Subarea Obligation presupposes that all inflows into the Transition Zone reach  
22 the Centro Subarea and is available to Centro Subarea Producers. The Statement of Decision states  
23 “[i]t is fair and equitable to maintain certain flow requirements between subareas as part of the  
24 physical solution. Flows to downstream subareas will be maintained either by supplemental water  
25 through the river and conveyance facilities, by purchase of transferred water by the watermaster, or  
26

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27 <sup>13</sup> Exhibit C to the Judgment further explains the process to establish the Base Flow and Storm  
28 Flow in the Mojave River at the Lower Narrows (Transition Zone boundary with the Alto Subarea)  
to estimate inflows into the Centro Subarea. (See Judgment, Ex. C, ¶ B.1.)

1 by reductions in consumptive use.” (Mot., p. 195.) It also specifies the flow requirements between  
2 “Alto to Centro 21,000 acre-feet average annual surface flow [i.e., Base Flow] as measured at the  
3 lower narrows (and maintained by an immediate replacement water obligation in the transition zone  
4 to form a water bridge down to the Helendale Fault) plus a 2,000 acre-feet average annual subsurface  
5 flow as estimated in Bulletin 84.” (*Ibid.*) The Statement of Decision notes “these estimates and other  
6 subsurface estimates will need to be up-dated [sic] by the use of monitoring wells which will  
7 determine the water table slope at the boundaries.” (*Ibid.*) It concludes:

8           The transition zone has a fairly stable water level. **It is necessary to**  
9           **maintain that water level so that the surface flows passing the**  
10           **Lower Narrows and the subsurface inflow into the transition zone**  
11           **will reach the Helendale Fault, and hence downstream subareas;**  
          the flows at the Helendale Fault will in the future be measured using  
          monitoring wells to insure that water levels are maintained within the  
          transition zone.

12 (*Ibid.* [emphasis added].) Therefore, the Judgment expresses the Parties’ intention that the Alto  
13 Subarea Obligation to the Transition Zone was for the purpose of replenishing the Centro Subarea.

14           **2. Is Exhibit G to the Judgment properly interpreted to mean that neither**  
15           **the Alto subarea as a whole nor the Transition Zone in particular have**  
16           **any obligation to provide Centro a particular average annual or**  
17           **minimum annual subsurface flow? To provide Centro as particular**  
18           **average annual Base Flow? If so, why is that the most reasonable**  
19           **interpretation?**

20           No. As explained above in Section III.B.1, the Judgment’s Physical Solution is predicated  
21 on the interconnectivity of the Basin and the need to manage each Subarea to protect downstream  
22 producers. (See, e.g., Judgment, ¶¶ A, D, 3, 6, 10.h, 13, 20, 22.) As specified in Paragraph 13 of the  
23 Judgment, Centro Subarea Producers have the right “to receive” average Annual water supplies and  
24 minimum Annual water supplies and Alto Subarea Producers have an obligation “to provide” those  
25 supplies to the adjoining Centro Subarea. (Judgment, ¶ 13; see also Judgment, Exh. C, Tab. C-1  
26 [showing assumed outflows from the Alto Subarea equal inflows into the Centro Subarea].) To find  
27 that the Alto Subarea Obligation is satisfied by delivery of water to the Transition Zone—even if  
28 that water never reaches the Centro Subarea—is contrary to the Parties’ intentions and would  
frustrate and implementation of the Judgment.

3. To what extent, if any, can the magnitude of those obligations be modified? In other words, are they set by the judgment for all time, or only initially?

The Judgment provides wide latitude for the Court to modify the Judgment under its continuing jurisdiction. Specifically, Paragraph 19 of the Judgment provides:

**Jurisdiction Reserved. Full jurisdiction, power and authority are retained by and reserved to the Court for purposes of enabling the Court upon the application of any Party, by a motion noticed in accordance with the notice procedures of Paragraph 36 hereof, to make such further or supplemental order or directions as may be necessary or appropriate for interim operation before the Physical Solution is fully operative, or for interpretation, enforcement or carrying out of this Judgment, and to modify, amend or amplify any of the provisions of this Judgment or to add to the provisions thereof consistent with the rights herein decreed; provided, that nothing in this paragraph shall authorize either a reduction of the Base Annual Production Right of any Party, except in accordance with the rules set forth in Exhibit “F”, or a reduction of the Base Flow portion of any Subarea Obligation.**<sup>14</sup>

(Emphasis added.) “Base Annual Production Right” means the “relative Annual right of each Producer to the [FPA] within a given Subarea, expressed as a percentage of the aggregate of all Producers’ Base Annual Production in the Subarea.” (Judgment, ¶ 4.g.)

Therefore, the Court has authority to increase Subarea Obligations provided that the increase does not reduce another the Base Annual Production Right of a Party. Such adjustments may provide the Court with “maximum flexibility and adaptability in order that the Court may be free to use existing and future technological, social, institutional and economic options in order to maximize reasonable beneficial use of the waters of the Basin Area.” (Judgment, ¶ 21.)

The Judgment further incorporates obligations on the Watermaster to validate the “initial[]” Subsurface Flow obligations across Subarea Boundaries. (Judgment, Ex. G ¶ 2.b, 6 [requiring installation of monitoring wells in the Transition Zone and at Subarea boundaries].) It also requires Watermaster to “install, operate and maintain wells, measuring devices and/or meters necessary to monitor stream flow . . . and to obtain such other data as may be necessary to carry out the provisions of this Judgment. . .” (Judgment, ¶ 24.e.) Recognizing the need for continuous improvement, the Judgment establishes the Exhibits as initial estimates or calculation frameworks that must evolve in

<sup>14</sup> Amendments adding Paragraphs 19.a and b are not relevant here.

1 response to improved data collections and scientific and engineering principles. Paragraph 24.w of  
2 the Judgment provides “Exhibit “C” sets forth methods and procedures for determining surface flow  
3 components. **Watermaster shall use either the same procedures or procedures that will yield**  
4 **results of equal or greater accuracy.”** (Judgment, ¶ 24.w [emphasis added]; see Judgment, at Exh.  
5 C, ¶ A [requiring Watermaster to use “all available pertinent hydrologic data and estimates, including  
6 at least the factors, or changes in the factors, shown in the attached Table C-1”].) The Judgment  
7 further supports that numeric values, like the Subarea Obligations, were set initially and subject to  
8 further refinement.

9 **4. Page 7 of the Amended Opposition says that Alto owes 2,000 AFY of**  
10 **subsurface flow to Centro, but in the next sentence says that Alto owes**  
11 **that 2,000 AFY to the TZ. Which is correct?**

12 Both. As discussed in Sections III.B.1 and III.B.2, the Alto Subarea Obligation is to the  
13 Centro Subarea. That Judgment assumed that that obligation would be satisfied physically—e.g., the  
14 water would flow into the Centro Subarea—when the water (2,000 AFY of Subsurface Flow) is  
15 delivered to the Transition Zone.

16 **5. The 2,000 AFY obligation was confirmed in 2006. Is it ever subject to**  
17 **adjustment? If so, how often should it be reevaluated?**

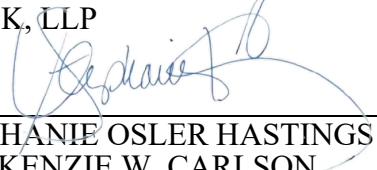
18 Yes, as discussed in Section III.B.3 , the Judgment provides flexibility for the Court to adjust  
19 the 2,000 AFY Subsurface Flow obligation among other components of the Judgment. (Judgment,  
20 ¶¶ 19, 21, 24.w.) Paragraph 6 of Exhibit G proposes that within two Years of the Judgment,  
21 Watermaster will “develop methodology for future determinations of actual Subsurface Flow” and  
22 within ten Years of the Judgment, “prepare a report settling forth the results of the monitoring  
23 program and future methodology.” Following public review, “Watermaster shall prepare a  
24 recommendation to the Court as to the likely accuracy of the estimate historical Subsurface Flows  
25 and any revisions of the Subarea Obligations that may be indicated.” (*Ibid.*) Nothing in Paragraph 6  
26 of Exhibit G contemplates that these determinations are binding in perpetuity. If the Parties desired  
27 that these determinations to be binding and never subject to adjustment, they would have said so.  
(See, e.g., *People v. Shelton* (2006) 37 Cal.4th 759, 767.)

28 Re-evaluation of Subarea Obligations *may* be warranted to arrest declining water levels and

1 implement the Physical Solution or otherwise to respond to new or changed circumstances. (See  
2 Judgment, ¶¶ 19, 21, 24.e, w.) Accordingly, Watermaster's continued refinement of the data and its  
3 technical analysis, including better scientific or engineering estimates that may yield a more accurate  
4 estimate of Subsurface Flows, is vital.

5  
6  
7 Dated: July 22, 2025

BROWNSTEIN HYATT FARBER  
SCHRECK, LLP

8  
9 By:   
10 STEPHANIE OSLER HASTINGS  
11 MACKENZIE W. CARLSON  
12 Attorneys for Plaintiff  
13 GOLDEN STATE WATER COMPANY  
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**PROOF OF SERVICE**

I am over the age of eighteen years and not a party to the within-entitled action. I am employed in Santa Barbara County, California. My business address is Brownstein Hyatt Farber Schreck, LLP, 1021 Anacapa Street, 2nd Floor, Santa Barbara, California 93101-2711. My electronic service address is [Meldridge@bhfs.com](mailto:Meldridge@bhfs.com). On July 22, 2025, I served a copy of the following document(s):

**GOLDEN STATE WATER COMPANY'S: OPPOSITION TO MOJAVE WATER AGENCY'S MOTION (1) FOR APPROVAL OF PRODUCTION SAFE YIELD CALCULATIONS, AND (2) TO ADJUST FREE PRODUCTION ALLOWANCES FOR WATER YEAR 2025-2026; AND RESPONSES TO COURT'S QUESTIONS AND ISSUES**



BY E-MAIL OR ELECTRONIC TRANSMISSION: I caused a copy of the document(s) listed above to be sent to the persons at the e-mail addresses listed below

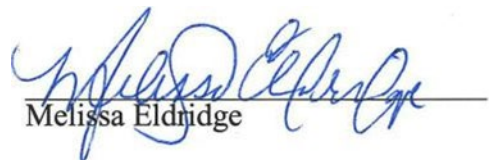
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Mojave Basin Area Watermaster

I declare under penalty of perjury under the laws of the State of California that the above is true and correct. Executed on July 22, 2025, at Santa Barbara, California.

  
Melissa Eldridge

## **PROOF OF SERVICE**

**STATE OF CALIFORNIA        }  
COUNTY OF SAN BERNARDINO}**

I am employed in the County of the San Bernardino, State of California. I am over the age of 18 and not a party to the within action; my business address is 13846 Conference Center Drive, Apple Valley, California 92307.

On July 23, 2025, the document(s) described below were served pursuant to the Mojave Basin Area Watermaster's Rules and Regulations paragraph 8.B.2 which provides for service by electronic mail upon election by the Party or paragraph 10.D, which provides that Watermaster shall mail a postcard describing each document being served, to each Party or its designee according to the official service list, a copy of which is attached hereto, and which shall be maintained by the Mojave Basin Area Watermaster pursuant to Paragraph 37 of the Judgment. Served documents will be posted to and maintained on the Mojave Water Agency's internet website for printing and/or download by Parties wishing to do so.

Document(s) filed with the court and served herein are described as follows:

**GOLDEN STATE WATER COMPANY'S: OPPOSITION TO MOJAVE WATER AGENCY'S MOTION (1) FOR APPROVAL OF PRODUCTION SAFE YIELD CALCULATIONS, AND (2) TO ADJUST FREE PRODUCTION ALLOWANCES FOR WATER YEAR 2025-2026; AND RESPONSES TO COURT'S QUESTIONS AND ISSUES**

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

Executed on July 23, 2025 at Apple Valley, California.

  
Jeffrey D. Ruesch

## Mojave Basin Area Watermaster Service List as of July 23, 2025

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Ahn Revocable Trust (via email)  
29775 Hunter Road  
Murrieta, CA 92563-6710

Attn: Chun Soo Ahn  
(davidahnmd@gmail.com,  
chunsooahn@naver.com;  
davidahn0511@gmail.com)  
Ahn, Chun Soo and David (via email)  
P. O. Box 45  
Apple Valley, CA 92307-0001

Attn: Chun Soo Ahn  
(chunsooahn@naver.com)  
Ahn, Chun Soo and Wha Ja (via email)  
P. O. Box 45  
Apple Valley, CA 92307-0001

Ake, Charles J. and Marjorie M.  
2301 Muriel Drive, Apt. 67  
Barstow, CA 92311-6757

Attn: Paul Tsai (paul@ezzlife.com)  
America United Development, LLC (via  
email)  
19625 Shelyn Drive  
Rowland Heights, CA 91748-3246

Attn: Ana Chavez  
American States Water Company  
160 Via Verde, Ste. 100  
San Dimas, CA 91773-5121

Anderson, Ross C. and Betty J.  
13853 Oakmont Dr.  
Victorville, CA 92395-4832

Attn: Daniel B. Smith (avfwd@gmail.com)  
Apple Valley Foothill County Water District  
(via email)  
22545 Del Oro Road  
Apple Valley, CA 92308-8206

Attn: Matthew Patterson  
Apple Valley Heights County Water District  
P. O. Box 938  
Apple Valley, CA 92308-0938

Attn: Parks and Recreation Town of Apple  
Valley  
Apple Valley Unified School District  
14955 Dale Evans Parkway  
Apple Valley, CA 92307-3061

Attn: Emely and Joe Saltmeris  
Apple Valley View Mutual Water Company  
P. O. Box 3680  
Apple Valley, CA 92307-0072

Attn: Tina Kuhns  
Apple Valley, Town Of  
14955 Dale Evans Parkway  
Apple Valley, CA 92307-3061

(ArchibekFarms@gmail.com;  
Sandi.Archibek@gmail.com)  
Archibek, Eric (via email)  
41717 Silver Valley Road  
Newberry Springs, CA 92365-9517

Avila, Angel and Evalia  
1523 S. Visalia  
Compton, CA 90220-3946

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(LegalPeopleService@gmail.com)  
Bailey 2007 Living Revocable Trust, Sheré R.  
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10428 National Blvd  
Los Angeles, CA 90034-4664

Attn: Daniel Shaw (barhwater@gmail.com)  
Bar H Mutual Water Company (via email)  
PO Box 1592  
Lucerne Valley, CA 92356-0844

Attn: John Munoz  
(barlenwater@hotmail.com;)  
Bar-Len Mutual Water Company (via email)  
P. O. Box 77  
Barstow, CA 92312-0077

Attn: Curtis Palmer  
Baron, Susan and Palmer, Curtis  
141 Road 2390  
Aztec, NM 87410-9322

Attn: Jennifer Riley (hriley@barstowca.org)  
Barstow, City of (via email)  
220 East Mountain View Street -Suite A  
Barstow, CA 92311

Bartels, Gwendolyn J.  
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Jerome, ID 83338-5256

## Mojave Basin Area Watermaster Service List as of July 23, 2025

Attn: Angelyn Bass  
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6719 Deep Creek Road  
Apple Valley, CA 92308-8711

Attn: Deborah Stephenson  
(stephenson@dmsnaturalresources.com;  
Jason.Murray@bnsf.com;  
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BNSF Railway Company (via email)  
602 S. Ferguson Avenue, Suite 2  
Bozeman, MT 59718-

Box, Geary S. and Laura  
P. O. Box 402564  
Hesperia, CA 92340-2564

Brown, Jennifer  
10001 Choicena Ave.  
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(bubierbear@msn.com)  
Bubier, Diane Gail (via email)  
46263 Bedford Rd.  
Newberry Springs, CA 92365-9819

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Bush, Kevin (via email)  
7768 Sterling Ave.  
San Bernardino, CA 92410-4741

Attn: Robert W. Bowcock  
CalMat Company  
405 N. Indian Hill Blvd.  
Claremont, CA 91711-4614

Attn: Tony Camanga  
Camanga, Tony and Marietta  
2309 Highland Heights Lane  
Carrollton, TX 75007-2033

Attn: Remo E. Bastianon  
Bastianon Revocable Trust  
9484 Iroquois Rd.  
Apple Valley, CA 92308-9151

Attn: Chuck Bell (Chuckb193@outlook.com;  
Chuckb193@outlook.com)  
Bell, Charles H. Trust dated March 7, 2014  
(via email)  
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Attn: Deborah Stephenson  
(stephenson@dmsnaturalresources.com)  
BNSF Railway Company (via email)  
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Bozeman, MT 59718-6483

Attn: Marvin Brommer  
Brommer House Trust  
9435 Strathmore Lane  
Riverside, CA 92509-0941

Bruneau, Karen  
19575 Bear Valley Rd.  
Apple Valley, CA 92308-5104

Attn: Noah Furie  
Budget Finance Company  
PO BOX 641339  
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Attn: Kirstie Wright  
(Kirstie.Wright@associa.us)  
Calico Lakes Homeowners Association (via  
email)  
11860 Pierce Street, Suite 100  
Riverside, CA 92505-5178

Attn: Catalina Elias (celias@calportland.com)  
CalPortland Company - Agriculture (via  
email)  
P. O. Box 146  
Oro Grande, CA 92368-0146

Attn: Myron Campbell II  
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18794 Sentenac Road  
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Best, Byron L.  
21461 Camino Trebol  
Lake Forest, CA 92630-2011

Borja, Leonil T. and Tital L.  
20784 Iris Canyon Road  
Riverside, CA 92508-

Attn: Paul Johnson  
Brown Family Trust Dated August 11, 1999  
26776 Vista Road  
Helendale, CA 92342-9789

Attn: Ian Bryant (irim@aol.com)  
Bryant Family Trust dated May 9, 2007 (via  
email)  
15434 Sequoia Avenue - Office  
Hesperia, CA 92345-1667

Bunnell, Dick  
8589 Volga River Circle  
Fountain Valley, CA 92708-5536

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California Department Of Transportation (via  
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175 W. Cluster  
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CalPortland Company - Oro Grande Plant (via  
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## Mojave Basin Area Watermaster Service List as of July 23, 2025

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Casa Colina Foundation  
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Attn: Danielle Stewart  
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Richard.Kim@wildlife.ca.gov;  
Alisa.Ellsworth@wildlife.ca.gov)  
CDFW - Camp Cady (via email)  
4775 Bird Farm Road  
Chino Hills, CA 91709-3175

Attn: San Bernardino Co Regional Parks  
CDFW - Mojave Narrows Regional Park  
268 W. Hospitality Lane, Suite 303  
San Bernardino, CA 92408-3241

Attn: Paco Cabral  
(paco.cabral@wildlife.ca.gov;  
askregion6@wildlife.ca.gov;  
aaron.johnson@wildlife.ca.gov)  
CDFW - Mojave River Fish Hatchery (via  
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12550 Jacaranda Avenue  
Victorville, CA 92395-5183

Attn: Environmental  
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Cemex, Inc. (via email)  
16888 North E. Street  
Victorville, CA 92394-2999

Attn: Jennifer Cutler  
Center Water Company  
P. O. Box 616  
Lucerne Valley, CA 92356-0616

Attn: Nancy Ryman  
Chamisal Mutual Water Company  
P. O. Box 1444  
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Attn: Carl Pugh (talk2betty@aol.com;  
cpugh3@aol.com)  
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Newberry Springs, CA 92365-

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Attn: Micahel Chisram  
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Chung, et al.  
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Blue Jay, CA 92317-4513

Attn: Manoucher Sarbaz  
Club View Partners  
9903 Santa Monica Blvd., PMB #541  
Beverly Hills, CA 90212-1671

Attn: Jaehwan Lee  
Come Mission, Inc.  
9965 Baker Road  
Lucerne Valley, CA 92365-8490

Conner, William H.  
11535 Mint Canyon Rd.  
Agua Dulce, CA 91390-4577

Contratto, Ersula  
13504 Choco Road  
Apple Valley, CA 92308-4550

Attn: George Starke  
Corbridge, Linda S.  
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Rancho Cucamonga, CA 91730-

Cross, Sharon I.  
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El Monte, CA 91731-1110

Attn: Alessia Morris  
Crystal Lakes Property Owners Association  
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Yermo, CA 92398-0351

Attn: Shanna Mitchell (daggettsd@aol.com;  
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daggettwater427@gmail.com)  
Daggett Community Services District (via  
email)  
P. O. Box 308  
Daggett, CA 92327-0308

Attn: Steve and Dana Rivett  
Daggett Ranch, LLC  
P. O. Box 112  
Daggett, CA 92327-0112

Attn: WeWork c/o Aileen Yeung  
(aileen.yeung@clearwayenergy.com)  
Daggett Solar Power 3 LLC (via email)  
1550 Wewatta St., Suite 200  
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40716 Highway 395  
Boron, CA 93516

## Mojave Basin Area Watermaster Service List as of July 23, 2025

Attn: Alan L. De Jong  
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46561 Fairview Road  
Newberry Springs, CA 92365-9230

Attn: Randy Wagner  
Dennison, Quentin D. - Clegg, Frizell and Joke  
44579 Temescal Street  
Newberry Springs, CA 92365

Attn: Marie McDaniel  
Desert Dawn Mutual Water Company  
P. O. Box 392  
Lucerne Valley, CA 92356-0392

Attn: Penny Zaritsky  
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Desert Girlz LLC (via email)  
P. O. Box 709  
Lucerne Valley, CA 92356-0709

Attn: Denise Courtney  
Desert Springs Mutual Water Company  
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Lucerne Valley, CA 92356-0396

Attn: Debby Wyatt  
DLW Revocable Trust  
13830 Choco Rd.  
Apple Valley, CA 92307-5525

Attn: Judith Dolch-Partridge, Trustee  
Dolch Living Trust Robert and Judith  
4181 Kramer Lane  
Bellingham, WA 98226-7145

Donaldson, Jerry and Beverly  
16736 B Road  
Delta, CO 81416-8501

Attn: Virginia Shaw  
Dora Land, Inc.  
P. O. Box 1405  
Apple Valley, CA 92307-0026

Attn: David Dorrance  
Dorrance, David W. and Tamela L.  
118 River Road Circle  
Wimberley, TX 78676-5060

Attn: David Looper  
Douglass, Tina  
P.O. Box 1730  
Lucerne Valley, CA 92356-

Dowell, Leonard  
345 E Carson St.  
Carson, CA 90745-2709

Evenson, Edwin H. and Joycelaine C.  
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Oro Grande, CA 92368-0066

Attn: Stephanie L. Evert  
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Evert Family Trust (via email)  
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Attn: David Dittenmore  
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Fernandez, Arturo (via email)  
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fischer@fischercompanies.com)  
Fischer Revocable Living Trust (via email)  
1372 West 26th St.  
San Bernardino, CA 92405-3029

Attn: Paul Johnson  
Fisher Trust, Jerome R.  
7603 Hazeltine Ave  
Van Nuys, CA 91405-1423

Attn: Daisy Cruz  
Foothill Estates MHP, LLC  
9454 Wilshire Blvd., Ste. 920  
Beverly Hills, CA 90212-2925

(cfrates@renewablegroup.com)  
Frates, D. Cole (via email)  
RRG CM, 926 N Sycamore Ave Ste 725  
Los Angeles, CA 90038-2382

Attn: Deborah A. Friend  
Friend, Joseph and Deborah  
P. O. Box 253  
Barstow, CA 92312-0253

Attn: Mark Asay (bettybrock@ironwood.org;  
waltbrock@ironwood.org)  
Fundamental Christian Endeavors, Inc. (via email)  
49191 Cherokee Road  
Newberry Springs, CA 92365

Gabrych Family Trust dated October 9, 2007  
2006 Old Highway 395  
Fallbrook, CA 92028

Gabrych Family Trust dated Octobner 9, 2007  
2006 Old Highway 395  
Fallbrook, CA 92028-8816

Gaeta, Miguel and Maria  
9366 Joshua Avenue  
Lucerne Valley, CA 92356-8273

## Mojave Basin Area Watermaster Service List as of July 23, 2025

Attn: Jay Storer  
Gaeta, Trinidad  
10551 Dallas Avenue  
Lucerne Valley, CA 92356

Garcia, Daniel  
223 Rabbit Trail  
Lake Jackson, TX 77566-3728

Attn: Sang Hwal Kim  
Gardena Mission Church, Inc.  
P. O. Box 304  
Lucerne Valley, CA 92356-0304

Garg, Om P.  
530 Technology Drive, Suite 100  
Irvine, CA 92618-1350

Attn: Brent Peterson  
Gayjikian, Samuel and Hazel  
34534 Granite Road  
Lucerne Valley, CA 92356-

Attn: Jeffrey Edwards  
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GenOn California South, LP (via email)  
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Daggett, CA 92327-0337

(Nereida.Gonzalez@gswater.com,  
ana.chavez@gswater.com)  
Golden State Water Company (via email)  
160 Via Verde, Ste. 100  
San Dimas, CA 91773-5121

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Nereida.Gonzalez@gswater.com)  
Golden State Water Company (via email)  
160 Via Verde, Ste. 100  
San Dimas, CA 91773-5121

Attn: Manoucher Sarbaz  
Golf Investments LLC  
9903 Santa Monica Blvd., #541  
Beverly Hills, CA 90212-1606

Attn: Scot Gasper  
Gordon Acres Water Company  
P. O. Box 1035  
Lucerne Valley, CA 92356-1035

Gray, George F. and Betty E.  
975 Bryant  
Calimesa, CA 92320-1301

Attn: Brian E. Bolin  
Green Acres Estates  
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Apple Valley, CA 92307-0001

Attn: Eric Archibek  
Green Hay Packers LLC  
41717 Silver Valley Road  
Newberry Springs, CA 92365-9517

Attn: Nick Grill (Nick.terawatt@gmail.com)  
Grill, Nicholas P. and Millie D. (via email)  
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Landers, CA 92285

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Gulbranson, Merlin (via email)  
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Gutierrez, Jose and Gloria  
24116 Santa Fe  
Hinkley, CA 92347

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Hamilton Family Trust  
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Apple Valley, CA 92308-8338

Attn: William Handrinos  
Handrinos, Nicole A.  
1140 Parkdale Rd.  
Adelanto, CA 92301-9308

Hang, Phu Quang  
645 S. Shasta Street  
West Covina, CA 91791-2818

Attn: Donald F. Hanify  
Hanify, Michael D., dba - White Bear Ranch  
PO BOX 1021  
Yermo, CA 92398-1021

Attn: Matt Wood  
(Matthew.wood@martinmarietta.com)  
Hanson Aggregates WRP, Inc. (via email)  
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Corona, CA 92878-1115

Attn: Mary Jane Hareson  
Hareson, Nicholas and Mary  
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Attn: Kenny Harmsen (harmsecow@aol.com)  
Harmsen Family Trust (via email)  
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Hinkley, CA 92347-9721

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(harvey1.92356@gmail.com)  
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Newberry Springs, CA 92365-

## Mojave Basin Area Watermaster Service List as of July 23, 2025

Attn: Craig Carlson (kcox@helendalecsd.org;  
ccarlson@helendalecsd.org)  
Helendale Community Services District (via  
email)  
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Helendale, CA 92342-0359

Attn: Joshua Maze  
Helendale School District  
P. O. Box 249  
Helendale, CA 92342-0249

Attn: Jeff Gallistel  
Hendley, Rick and Barbara  
P. O. Box 972  
Yermo, CA 92398-0972

Hensley, Mark P.  
35523 Mountain View Rd  
Hinkley, CA 92347-9613

Attn: Jeremy McDonald  
(jmcDonald@cityofhesperia.us)  
Hesperia - Golf Course, City of (via email)  
9700 Seventh Avenue  
Hesperia, CA 92345-3493

Attn: Janie Martines  
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Wheatland, WY 82201-8936

Attn: Jeremy McDonald  
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Hesperia Water District (via email)  
9700 7th Avenue  
Hesperia, CA 92345-3493

Attn: Jeremy McDonald  
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Hesperia, City of (via email)  
9700 Seventh Avenue  
Hesperia, CA 92345-3493

Attn: Carabeth Carter ()  
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Attn: Lisset Sardeson  
Hi Desert Mutual Water Company  
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Hiatt, Harry L. (via email)  
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Attn: Lori Clifton (lclifton@robar.com)  
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Attn: Lori Clifton (lclifton@robar.com)  
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17671 Bear Valley Road  
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Attn: Frank Hilarides  
Hilarides 1998 Revocable Family Trust  
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Attn: Katherine Hill (Khill9@comcast.net)  
Hill Family Trust and Hill's Ranch, Inc. (via  
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Attn: Anne Roark  
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Lucerne Valley, CA 92356-0749

Ho, Ting-Seng and Ah-Git  
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Mission Viejo, CA 92691-

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Denver, CO 80202-1348

Attn: Katherine K. Hsu  
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1261 S. Lincoln Ave.  
Monterey Park, CA 91755-5017

Attn: Paul Hong  
Hong, Paul B. and May  
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Attn: Sandra D. Hood  
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San Pedro, CA 90732-4557

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Horton Family Trust  
47716 Fairview Road  
Newberry Springs, CA 92365-9258

Attn: Ester Hubbard  
Hubbard, Ester and Mizuno, Arlean  
47722 Kiloran St.  
Newberry Springs, CA 92365-9529

Attn: Paul Johnson  
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Hunt, Ralph M. and Lillian F.  
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Im, Nicholas Nak-Kyun (via email)  
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Alhambra, CA 91803-3338



## Mojave Basin Area Watermaster Service List as of July 23, 2025

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Inglewood, CA 90303-

Attn: James Jackson Jr.  
Jackson, James N. Jr Revocable Living Trust  
1245 S. Arlington Avenue  
Los Angeles, CA 90019-3517

Attn: Lawrence Dean  
Jackson, Ray Revocable Trust No. 45801  
P.O. Box 8250  
Redlands, CA 92375-1450

Attn: Audrey Goller  
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Victorville, CA 92395-2800

Attn: Tomas Janovsky  
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Janovsky Revocable Trust No. 1 (via email)  
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Encino, CA 91316-1437

Attn: Gary A. Ledford  
(gleddream@gmail.com)  
Jess Ranch Water Company (via email)  
906 Old Ranch Road  
Florissant, CO 80816-

Attn: Cynthia Mahoney  
(cyndisue87@yahoo.com)  
Johnson, Carlean F. Trust Dated 10/29/2004  
(via email)  
8626 Deep Creek Road  
Apple Valley, CA 92308-8769

Attn: Paul Johnson  
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Johnson, Paul - Industrial (via email)  
10456 Deep Creek Road  
Apple Valley, CA 92308-8330

Johnson, Ronald  
1156 Clovis Circle  
Dammeron Valley, UT 84783-5211

Attn: Lawrence W. Johnston  
Johnston, Harriet and Johnston, Lawrence W.  
P. O. Box 401472  
Hesperia, CA 92340-1472

Attn: Magdalena Jones  
(mygoldenbiz9@gmail.com)  
Jones Trust dated March 16, 2002 (via email)  
35424 Old Woman Springs Road  
Lucerne Valley, CA 92356-7237

Attn: Paul Jordan  
Jordan Family Trust  
1650 Silver Saddle Drive  
Barstow, CA 92311-2057

Attn: Ray Gagné  
Jubilee Mutual Water Company  
P. O. Box 1016  
Lucerne Valley, CA 92356

Attn: Jilin Xiao  
Jujube Valley Farm, Inc.  
19 Pemberly  
Irvine, CA 92603-3452

Attn: Daniel Smith (dsmith@jrcwd.org)  
Juniper Riviera County Water District (via email)  
P.O. Box 618  
Lucerne Valley, CA 92356-0618

Attn: Ash Karimi  
Karimi, Hooshang  
1254 Holmby Ave  
Los Angeles, CA 90024-

Attn: Robert R. Kasner  
(Robertkasner@aol.com)  
Kasner Family Limited Partnership (via email)  
11584 East End Avenue  
Chino, CA 91710-

(Robertkasner@aol.com)  
Kasner, Robert (via email)  
11584 East End Avenue  
Chino, CA 91710-1555

Attn: Martin A and Mercedes Katcher  
Katcher, August M. and Marceline  
12928 Hyperion Lane  
Apple Valley, CA 92308-4565

Kemp, Robert and Rose  
48441 National Trails Highway  
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Attn: Peggy Shaughnessy  
Kemper Campbell Ranch  
10 Kemper Campbell Ranch Road - Office  
Victorville, CA 92395-3357

Kim, Jin S. and Hyun H.  
419 Sara Jane Ln  
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(juskim67@yahoo.com)  
Kim, Ju Sang (via email)  
1225 Crestview Dr  
Fullerton, CA 92833-2206

Kim, Seon Ja  
34981 Piute Road  
Newberry Springs, CA 92365-9548

Attn: Richard Koering  
Koering, Richard and Koering, Donna  
40909 Mountain View Road  
Newberry Springs, CA 92365-9414

Attn: Catherine Cerri  
(ccerri@lakearrowheadcsd.com)  
Lake Arrowhead Community Services District  
(via email)  
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Lake Arrowhead, CA 92352-0700

## Mojave Basin Area Watermaster Service List as of July 23, 2025

Attn: Claire Cabrey  
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(PhillipLam99@Yahoo.com)  
Lam, Phillip (via email)  
864 Sapphire Court  
Pomona, CA 91766-5171

Attn: Robert Lawrence Jr.  
Lawrence, William W.  
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Newberry Springs, CA 92365

Lee, Doo Hwan  
P. O. Box 556  
Lucerne Valley, CA 92356-0556

Lenhert, Ronald and Toni  
4474 W. Cheyenne Drive  
Eloy, AZ 85131-3410

Attn: Michael Reese  
(Michael.Reese@libertyutilities.com)  
Liberty Utilities (Apple Valley Ranchos Water) Corp. (via email)  
P. O. Box 7005  
Apple Valley, CA 92307

Attn: Neal Davies (ndavies@terra-gen.com;  
dkelly@terra-gen.com)  
Lockhart Land Holding, LLC (via email)  
43880 Harper Lake Road  
Hinkley, CA 92347-

Lua, Michael T. and Donna S.  
18838 Aldridge Place  
Rowland Heights, CA 91748-4890

Attn: Manoucher Sarbaz  
Lucerne Valley Partners  
9903 Santa Monica Blvd., PMB #541  
Beverly Hills, CA 90212-1671

Attn: Nancy Lan  
Lake Waikiki  
230 Hillcrest Drive  
La Puente, CA 91744-4816

(jlangley@kurschgroup.com)  
Langley, James (via email)  
12277 Apple Valley Road, Ste. #120  
Apple Valley, CA 92308-1701

Lawson, Ernest and Barbara  
20277 Rock Springs Road  
Apple Valley, CA 92308-8740

Attn: Sepoong & Woo Poong Lee  
Lee, et al., Sepoong and Woo Poong  
#6 Ensueno East  
Irvine, CA 92620-

Attn: Brad Francke  
LHC Alligator, LLC  
P. O. Box 670  
Upland, CA 91785-0670

Attn: James Lin  
Lin, Kuan Jung and Chung, Der-Bing  
2026 Turnball Canyon  
Hacienda Heights, CA 91745-

Attn: Patricia Miranda  
Lopez, Baltazar  
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Lucerne Valley, CA 92356-

Attn: Parviz Omidvar  
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Tustin, CA 92780-7053

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Loma Linda, CA 92354-6113

Lee, Vin Jang T.  
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Attn: Billy Liang  
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Attn: Manshan Gan  
Lo, et al.  
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San Gabriel, CA 91776-1724

Attn: Dean Low (lowgo.dean@gmail.com)  
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3 Panther Creek Ct.  
Henderson, NV 89052-

Attn: Gwen L. Bedics  
Lucerne Valley Mutual Water Company  
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Lucerne Valley, CA 92356

Attn: Eugene R. & Vickie R. Bird  
M Bird Construction  
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Barstow, CA 92311-4162

## Mojave Basin Area Watermaster Service List as of July 23, 2025

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Manning, Sharon S.  
19332 Balan Road  
Rowland Heights, CA 91748-4017

Attn: Allen Marcroft  
Marcroft, James A. and Joan  
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Attn: James M. Hansen, Jr. (gm@mrcwd.org;  
gmmrcwd@gmail.com)  
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Barstow, CA 92312-1407

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Hesperia, CA 92345-2950

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Attn: Olivia L. Mead  
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Barstow, CA 92311-2057

Attn: David I. Milbrat  
Milbrat, Irving H.  
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Attn: Donna Miller  
Miller Living Trust  
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Attn: Freddy Garmo (freddy@garmolaw.com)  
Minn15 LLC (via email)  
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La Mesa, CA 91942-3035

Attn: David Riddle  
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Mitsubishi Cement Corporation (via email)  
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Attn: Thomas A. Hrubik (tahgolf@aol.com)  
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Apple Valley, CA 92307-0049

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Joshua Tree, CA 92252-4130

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Attn: Doug Kerns  
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Attn: Ken Elliot (Billie@ElliotPlace.com)  
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Lanexa, VA 23089-9320

Moss, Lawrence W. and Helen J.  
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Attn: Bradford Ray Most  
Most Family Trust  
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Durango, CO 81303-8131

Attn: Dennis Hills  
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Attn: Billy Liang (flossdaily@hotmail.com;  
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## Mojave Basin Area Watermaster Service List as of July 23, 2025

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Attn: Jeff Gaastra (jeffgaastra@gmail.com)  
Newberry Springs Recreational Lakes  
Association (via email)  
32935 Dune Road, Space 10  
Newberry Springs, CA 92365-

Attn: Mary Ann Norris  
Norris Trust, Mary Ann  
29611 Exeter Street  
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Attn: Kenton Eatherton  
(keatherton@verizon.net)  
NSSL, Inc. (via email)  
9876 Moon River Circle  
Fountain Valley, CA 92708-7312

Núñez, Luis Segundo  
9154 Golden Seal Court  
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Attn: Pearl or Gail Nunn  
Nunn Family Trust  
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Apple Valley, CA 92307-0010

Attn: Jeff Gaastra (jeffgaastra@gmail.com;  
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bbswift4044@cox.net)  
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Oasis World Mission (via email)  
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Apple Valley, CA 92307-0001

Attn: Dorothy Ohai  
Ohai, Reynolds and Dorothy  
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Attn: Craig Maetzold  
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Attn: John P. Oostdam  
Oostdam Family Trust, John P. and Margie K.  
24953 Three Springs Road  
Hemet, CA 92545-2246

Attn: Nick Higgs  
Oro Grande School District  
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Oro Grande, CA 92368-0386

Attn: Taghi Shoraka  
P and H Engineering and Development  
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Attn: Jessica Balders (J4Dx@pge.com)  
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Perko, Bert K.  
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Pettigrew, Dan  
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Phelan Piñon Hills Community Services  
District (via email)  
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Loveland, CO 80537-7200

Porter, Timothy M.  
34673 Little Dirt Road  
Newberry Springs, CA 92365-9646

Attn: Carin McKay  
Precision Investments Services, LLC  
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Pismo Beach, CA 93449-2529

Pruett, Andrea  
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Newberry Springs, CA 92365

(s\_quakenbush@yahoo.com)  
Quakenbush, Samuel R. (via email)  
236 Iris Drive  
Martinsburg, WV 25404-1338

Attn: Ron Herrmann  
Quiros, Francisco J. and Herrmann, Ronald  
35969 Newberry Rd  
Newberry Springs, CA 92365-9438

Attn: Elizabeth Murena  
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Rancharitos Mutual Water Company (via  
email)  
P. O. Box 348  
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Reed, Mike  
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Attn: Brian C. Vail (bvail@river-west.com)  
Reido Farms, LLC (via email)  
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## Mojave Basin Area Watermaster Service List as of July 23, 2025

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Attn: Kelly Rice  
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Newberry Springs, CA 92365-

Attn: Josie Rios  
Rios, Mariano V.  
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Rivero, Fidel V.  
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Attn: Jackie McEvoy (billt@rrmca.com)  
Robertson's Ready Mix (via email)  
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Corona, CA 92878-3600

Attn: Jackie McEvoy (billt@rrmca.com)  
Robertson's Ready Mix (via email)  
PO Box 3600  
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Attn: Susan Sommers (sommerssqz@aol.com)  
Rossi Family Trust, James Lawrence Rossi  
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Templeton, CA 93465-0120

Attn: Robert Vega  
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Attn: Sam Marich  
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42704 Edelweiss Drive  
Big Bear Lake, CA 92315-2074

Attn: Dale W. Ruisch  
Rusch Trust, Dale W. and Nellie H.  
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Apple Valley, CA 92308-3690

Attn: Sherwin Shoraka  
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San Bernardino Co Barstow - Daggett Airport  
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Detention Center (via email)  
222 W. Hospitality Lane, 2nd Floor - SDW  
San Bernardino, CA 92415-0415

(trevor.leja@sdd.sbcounty.gov)  
San Bernardino County Service Area 29 (via  
email)  
222 W. Hospitality Lane, 2nd Floor (Spec  
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Attn: Jared Beyeler  
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jbeyeler@sdd.sbcounty.gov;  
waterquality@sdd.sbcounty.gov)  
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Attn: Rod Sexton  
Sexton, Rodney A. and Sexton, Derek R.  
P.O. Box 155  
Rim Forest, CA 92378-

Attn: Joseph Tapia  
Sheep Creek Water Company  
P. O. Box 291820  
Phelan, CA 92329-1820

Sheng, Jen  
5349 S Sir Richard Dr  
Las Vegas, NV 89110-0100

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## Mojave Basin Area Watermaster Service List as of July 23, 2025

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Attn: Denise Smith (ddgogo72@yahoo.com)  
Smith, Denise dba Amerequine Beauty, Inc  
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Norwalk, CA 90650-2168

Smith, Porter and Anita  
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Attn: Steve Kim (stevekim1026@gmail.com)  
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Attn: Chan Kyun Son  
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Attn: Joe Trombino  
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Attn: Father Sarapamon  
St. Antony Coptic Orthodox Monastery  
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Attn: Alex Vienna  
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Attn: Stephen H. Douglas  
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mdoublesin@centcap.net;  
cre.notices@clenera.com)  
Sunray Land Company, LLC (via email)  
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Synagro-WWT, Inc. (dba Nursury Products,  
LLC) (via email)  
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Attn: John Henry Tellez  
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Attn: Daryl or Lucinda Lazenby  
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## Mojave Basin Area Watermaster Service List as of July 23, 2025

Attn: Stephen Thomas  
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Attn: Lynnette L. Thompson  
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22815 Del Oro Road  
Apple Valley, CA 92308

Attn: Rodger Thompson  
Thompson Living Trust, R.L. and R.A.  
9141 Deep Creek Road  
Apple Valley, CA 92308-8351

Thrasher, Gary  
14024 Sunflower Lane  
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Attn: Doug Heinrichs  
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office@thunderbirdcwg.org)  
Thunderbird County Water District (via email)  
P. O. Box 1105  
Apple Valley, CA 92307-1105

Attn: Jim Hoover  
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35870 Fir Ave  
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Attn: Mike Troeger (mjtroeger@yahoo.com)  
Troeger Family Trust, Richard H. (via email)  
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Turner, Terry  
726 Arthur Lane  
Santa Maria, CA, CA 93455-7403

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Union Pacific Railroad Company (via email)  
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