

1 ROB BONTA
Attorney General of California
2 ERIC M. KATZ
Supervising Deputy Attorney General
3 NOAH GOLDEN-KRASNER
Deputy Attorney General
4 State Bar No. 217556
MARILYN H. LEVIN
5 Deputy Attorney General
State Bar No. 92800
6 300 South Spring Street, Suite 1702
Los Angeles, CA 90013-1230
7 Telephone: (213) 269-6343
Fax: (916) 731-2128
8 E-mail: Noah.GoldenKrasner@doj.ca.gov
9 *Attorneys for the California Department
of Fish and Wildlife*

EXEMPT FROM FILING FEES
PER GOV. CODE, § 6103

11 SUPERIOR COURT OF THE STATE OF CALIFORNIA
12 COUNTY OF RIVERSIDE

13 Case No.: CIV208568

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

JCCP NO. 5265
CIV 208568 (~~Lead Case No.~~)

15 **MOJAVE BASIN WATER CASES**

Dept. 1, Riverside County Superior Court,
Hon. Harold W. Hopp, Judge Presiding

17 CITY OF BARSTOW,

Plaintiff,

**DECLARATION OF AARON
JOHNSON IN SUPPORT OF THE
CALIFORNIA DEPARTMENT OF
FISH AND WILDLIFE'S RESPONSE
TO WATERMASTER'S MOTION TO
ADJUST FREE PRODUCTION
ALLOWANCE FOR THE 2024-2025
WATER YEAR**

19 v.

21 CITY OF ADELANTO, ET AL,

Defendants.

Date: June 4, 2024

Time: 8:30 a.m.

Dept.: 1

Judge: Honorable Harold W. Hopp

Assigned for All Purposes to Dept. 1,
Honorable Harold W. Hopp, Judge Presiding
by Assignment

1 **DECLARATION OF AARON JOHNSON**

2 I, AARON JOHNSON, declare as follows:

3 1. I am presently employed with the California Department of Fish and Wildlife
4 (“Department”) as a Senior Environmental Scientist and have been employed by the Department
5 for approximately nine years. I have a bachelor’s degree in environmental studies from the
6 University of California, Santa Cruz. I have worked in various capacities in the environmental
7 sciences, land conservation, and land management for the past 20 years. I am currently the
8 supervisor for the northern Lands Program covering Mono and Inyo counties, and portions of San
9 Bernardino County for the Inland Deserts Region. (A copy of my current resume is attached
10 hereto as Attachment A.)

11 2. In my capacity as Senior Environmental Scientist, my responsibilities include
12 preparing, reviewing, and commenting on reports, documents, and data, both scientific and non-
13 scientific; preparing correspondence; managing staff, budgets, and contracts; making
14 recommendations as they relate to public trust resources on behalf of the Department; and
15 representing the Department at meetings of various boards and commissions, including the
16 Mojave River Basin Watermaster Board (“Watermaster Board”).

17 3. I have been working on natural resource issues within the Mojave River watershed for
18 approximately 2.5 years, beginning in 2021. In my current Department capacity, I am involved in
19 the management of Department-owned lands in the Mojave River Basin Adjudication, including
20 Camp Cady Wildlife Area (“Camp Cady”) in the Baja Subarea (“Baja”) and Mojave Narrows
21 Regional Park in the Alto Subarea (“Alto”). The Department also owns and is responsible for
22 managing the Mojave River Fish Hatchery in Alto.

23 4. I am providing this declaration in support of the Department’s Response to the
24 Watermaster’s Motion to Adjust Free Production Allowance for Water Year 2024-2025 (“2024-
25 2025 FPA Motion”) and Declaration of Robert C. Wagner in Support Thereof (“2024 Wagner
26 Declaration”).

1 5. The following facts and opinions are true and correct and if called to testify, I could
2 and would testify completely thereto. I make this declaration based on personal knowledge and on
3 my expert opinion as a Senior Environmental Scientist at the Department.

4 6. The Department is trustee for the state’s fish and wildlife resources. (Fish & G. Code,
5 § 711.7.) The Department has jurisdiction over the conservation, protection, and management of
6 fish, wildlife, native plants, and the habitats necessary for biologically sustainable populations of
7 those species. (Fish & G. Code, § 1802.) In addition, the Department is an ex-officio member of
8 the Alto and Baja Subarea Advisory Committees and is a party to the judgment in *City of*
9 *Barstow, et al., v. City of Adelanto, et al.*, Riverside County Superior Court Case No. 208568
10 (“Judgment”).

11 7. On February 20, 2024, in advance of the February 28, 2024, Mojave River Basin Area
12 Watermaster (“Watermaster”) Board meeting, I submitted a letter on behalf of the Department
13 regarding the recently disclosed new methods by the Watermaster Engineer Robert C. Wagner
14 (“Watermaster Engineer”) to calculate production safe yield (“PSY”) and based on the PSY, the
15 proposed free production allowance (“FPA”) for Water Year (“WY”) 2024-2025, which in two
16 subareas would increase for the first time since the implementation of the Judgment
17 (“Department’s February 2024 letter”). (A copy of the Department’s February 2024 letter is
18 attached hereto as Attachment B.) I summarized these comments in person at the Watermaster
19 Board meeting on February 28, 2024.

20 8. Department staff attended the March 14, 2024, public workshop on the PSY update
21 and proposed 2024-2025 FPA in Alto and Centro.

22 9. On March 19, 2024, I submitted a second letter on behalf of the Department. In that
23 letter, I reiterated the comments in the Department’s February 2024 letter and clarified the
24 Department’s positions on the PSY calculations and the WY 2024-2025 FPA recommendations.
25 (“Department’s March 2024 letter”). (A copy of the Department’s March 2024 letter is attached
26 hereto as Attachment C.) The clarifications were in response to the additional information the
27 Watermaster Engineer and staff provided the Department by letter in March 2024 in advance of
28 the Watermaster Board’s March 27, 2024, public hearing to receive comments and adopt the

1 proposed FPA recommendation for 2024-2025. I summarized these comments in person at the
2 March 27, 2024, public hearing.

3 10. In my opinion and on behalf of the Department, I make the following
4 recommendations and conclusions:

- 5 • The Department opposes the Watermaster’s recommendations to
6 increase the FPA in Alto from 50.4% to 53.3% and in Centro from 55% to 60%
7 for the first time since entry of the Judgment in 1996. In Alto and Centro, the
8 recommendation to increase production based on the use of the new PSY
9 calculations and associated MWA Upper Mojave River Basin Integrated Surface
10 Water/Groundwater Model¹ (“Upper Mojave River Basin Model”) are premature
11 and need to be compared to real world monitoring well and stream gage data over
12 modeled outcomes.² FPA should not be increased to 53.3% in Alto and to 60% in
13 Centro because it would prematurely reverse the ramp down of pumping that
14 occurred just this past water year in 2023. Instead, the Watermaster must take a
15 more cautious “wait and see” approach and continue to evaluate the response to
16 changes in water management, such as reductions in pumping over time (i.e.,
17 ramp down), imported artificial recharge, and storm flows, in the existing network
18 of groundwater monitoring wells and surface water gauges, and weighting such
19 observed real-world data over modeled outcomes. The Watermaster’s
20 recommendation to rampdown in Alto to 50% in 2023 also included a
21 recommendation to keep FPA the same for five years. While the Court deferred
22 the recommendation to hold FPA for five years, the Court agreed that the
23 condition of Alto required a rampdown noting the reductions in Alto groundwater
24 levels over the course of the Judgment and in the very recent past.

25
26 ¹ Wood Environment & Infrastructure Solutions, Inc. October 29, 2021. Project
27 Completion Report – Integrated Surface Water/Groundwater Model, Upper Mojave River Basin.

28 ² The new calculations and groundwater model were first introduced at the January 24,
2024, Watermaster Board meeting and shared at the Watermaster Board’s subsequent February
28, 2024, meeting.

1 • As stated in the Declaration of Kit Custis in Support of the Department
2 of Fish and Wildlife’s Response to Watermaster’s Motion to Adjust Free
3 Production Allowance for the 2024-2025 Water Year (“2024 Custis
4 Declaration”), surface flows from Centro to Baja have been reduced by more than
5 8,900 acre-feet per year from their historical levels and the levels at the time the
6 Judgment was entered. (2024 Custis Declaration, pp. 6, 19.) An increase in PSY
7 and FPA for Alto and Centro, at a time when the surface flows have been reduced
8 to Baja due to the overproduction in Alto and Centro, would allow these subareas
9 to produce additional water at Baja’s expense.

10 • In Baja, the Department agrees with the Watermaster’s conclusions that
11 pursuant to the terms of the Judgment and based on the proposed PSY, further
12 ramp down in Baja is not prescribed for WY 2024-2025, and that it is appropriate
13 to again set FPA at 20.5% of base annual production (“BAP”), as recommended
14 by the Watermaster and supported by the Department for WY 2023-2024. This is
15 because in Baja the FPA has been reduced by almost 80% since entry of the
16 Judgment, far more than the other subareas, while at the same time, as stated
17 above, Baja has received significantly less inflow from Centro, which the
18 Watermaster must address to restore the groundwater levels in Baja, taking into
19 account the water needs of public trust resources.

20 • In Baja, the Watermaster Engineer calculated the PSY for Baja in
21 Appendix E, Table 2 in the February 28, 2024, “Production Safe Yield and
22 Consumptive Use Update”³ (“2024 PSY Update”). The Department objects to the
23 significant proposed decrease in the water balance allocation of consumptive
24 water use by phreatophytes or groundwater dependent riparian vegetation⁴
25 (“riparian vegetation”) in Baja from 2,000 acre-feet down to 984 acre-feet. Per

26 ³ Mojave Water Agency Watermaster, Production Safe Yield & Consumptive Use Update
27 with Appendices A-G (February 28, 2024) prepared by Wagner & Bonsignore, Engineers, 107
pages, included in 2024-2025 FPA Motion, Exhibit C5, pdf pp. 196-303.

28 ⁴ I use “groundwater dependent riparian vegetation” as interchangeable with
“phreatophytes” used in Table C-1 in Exhibit C in the Judgment.

1 Exhibit H in the Judgment, attached hereto as Attachment D, the Physical
2 Solution was intended to consider the water needs of public trust resources,
3 including riparian vegetation. In reducing the allocation of consumptive water use
4 by riparian vegetation in the water balance from the higher value of 2,000 acre-
5 feet established by the U.S. Geological Survey (“USGS”) in 1996, the
6 Watermaster incentivizes the loss of riparian vegetation resulting from
7 groundwater depletion and the lowering of the groundwater table. Further, the
8 Watermaster Engineer’s calculation only evaluated vegetation in the vicinity of
9 Camp Cady when the PSY calculation in Exhibit C of the Judgment (attached
10 hereto as Attachment E) should represent water use by riparian vegetation across
11 the entire subarea.

12 11. The Department believes that the implementation of the Physical Solution set forth in
13 the Judgment by the Watermaster has resulted in significant improvements in groundwater
14 management in the Mojave River Basin. The Department also acknowledges that there have been
15 substantial advances in the tools and available information to monitor and model groundwater
16 systems in the past 30 years and supports efforts to improve our understanding of the Mojave
17 River system and associated groundwater basin. However, the Department opposes the
18 Watermaster’s recommendation in Alto and Centro because the Department believes it is
19 premature to increase pumping in these subareas at this time, reversing decades of carefully
20 considered water management improvements during the ramp down, without adequate monitoring
21 data to support the increase and its potential impact downstream. The Department is concerned
22 that increasing production in these areas may be contrary to the protection of public trust
23 resources by lowering the groundwater table below a level necessary to maintain healthy riparian
24 vegetation communities along the Mojave River.

25 12. The following is a description of the actions previously taken in compliance with the
26 Judgment:

- 27 • In 2023, the Watermaster recommended that PSY in Alto be reduced to
28 50% of BAP. The Watermaster further recommended that FPA be held at 50% for

1 5 years in Alto. In Centro, the Watermaster concluded that continued ramp down
2 was warranted and recommended that FPA be set at 55% of BAP. In Baja, the
3 Watermaster noted that FPA was very close to FPA and did not recommend
4 further ramp-down (2023-2024 FPA Motion).

5 • The Department submitted comments to the Watermaster on March 20,
6 2023, generally in support of these recommendations, but noting the need to
7 evaluate FPA relative to PSY on an annual basis per the Judgment. In the May 1,
8 2023, declaration in support of the motion to adjust FPA for WY 2023-2024
9 (“Watermaster Engineer’s May 2023 Declaration”), the Watermaster Engineer
10 included additional discussion about the required PSY update and new
11 groundwater model for the Upper Mojave River Basin, noting that the model
12 supported an FPA of 50% and concluding, “While the reevaluation of PSY may
13 result in a different value than proposed herein, it is my recommendation that FPA
14 in Alto remain at 50% for the next five water years.” (Watermaster Engineer’s
15 May 2023 Declaration, p. 6.) Additionally, regarding the recommended ramp
16 down in Centro, the Watermaster Engineer in the same declaration noted, “We
17 note that it is unlikely that PSY will increase for the Centro subarea upon
18 reevaluation. The primary reason is that the long-term average water supply
19 (1931-1990) is already included in the PSY estimate. It is not expected that the
20 inflow to Centro on an average basis will increase.” (*Ibid.*) These comments are
21 consistent with the Department’s opposition to increasing the FPA in Alto and
22 Centro.

23 13. In the Court’s June 9, 2023, “Ruling on the Watermaster’s Annual Motion to Adjust
24 Free Production Allowance for Water Year 2023-2024: Order to the Watermaster” (“June 9,
25 2023, Order”), the Court ordered that FPA be set for the various subareas as recommended by the
26 Watermaster, except as to Alto, where the recommendation was adopted in part. The Court noted
27 that “the PSY in Alto is clearly incorrect” since the subarea had experienced depletion even
28 though FPA was only slightly higher than PSY. (June 9, 2023, Order, p. 2.) Acknowledging that

1 the Watermaster Engineer’s PSY re-evaluation was not yet final, the Court elected to reduce FPA
2 by 4.4% rather than the full 5% proposed, and set FPA at 50.4% of BAP. The Court noted also
3 that the request to hold Alto at 50% for five years would be evaluated next year in 2024, being the
4 first year after the initial recommendation. (June 9, 2023, Order, p. 4.)

5 14. In a December 27, 2023, status report to the Court “Regarding Production Safe Yield
6 and Free Production Allowance Calculations,” the Watermaster first indicated its intentions to
7 adopt the Mojave Water Agency’s (“MWA”) new groundwater model and use it in its
8 calculations of PSY in the upper Mojave River Basin and increase PSY in Alto and Centro based
9 on the model outputs. These recommendations were confirmed at the Watermaster Board’s
10 January 24, 2024, regular meeting in a presentation given by the Watermaster Engineer. On
11 January 31, 2024, the Department filed a response with the Court to the December status report
12 opposing the increase in PSY in Alto and Centro.

13 15. The Watermaster Board in its regular meeting on February 28, 2024, and public
14 hearing on March 27, 2024, considered the annual FPA recommendations from the Watermaster
15 Engineer, and included two memoranda supporting these agenda items. At the February 28, 2024,
16 meeting, the Watermaster Engineer also introduced a report titled “Production Safe Yield &
17 Consumptive Use Update.” For the first time since the entry of the Judgment, the memoranda and
18 report recommend increasing PSY in Alto and Centro, as well as the FPA, to 53.3% (+2.9%
19 compared to WY 2023-2024) and 60% (+5% compared to WY 2023-2024) of BAP, respectively.
20 The Watermaster Engineer also recommended holding FPA in Baja and Oeste at 20.5% and 50%
21 of BAP, respectively, and ramping down Este to 50% of BAP (-5% compared to WY 2023-2024).
22 The Watermaster Board approved all the Watermaster Engineer’s recommendations.

23 16. The Watermaster’s Thirtieth Annual Report includes the FPA recommendations for
24 WY 2024-2025, as well as a discussion of subarea water levels in Chapter 3 of the report and
25 presents selected hydrographs from monitoring wells in each of the subareas. The discussion of
26 the subarea water levels observed in WY 2023-2024 provides support for the Department’s
27 opposition to the current FPA recommendations submitted to the Court. In the water level
28 discussion for Alto, the Watermaster states, “We note that variability showing lower lows and

1 lower highs is an indication of extractions exceeding recharge over time. Water levels in the
2 western portion of Alto in the regional aquifer exhibit declines consistent with locally heavy
3 pumping and limited local recharge.... Continued pumping in depleted areas of the regional
4 system may result in long-term local negative impacts such as declining yields and water quality
5 problems. Water levels in near river wells, particularly in the south part of Alto, experienced a
6 trend of decline for 7 years consistent with limited recharge due to drier than average
7 conditions.... Continuation of dry conditions will result in water level declines.” (Watermaster’s
8 Thirtieth Annual Report, pp. 27-28.)

9 17. As this discussion in the report indicates, water levels in Alto still appear to be
10 influenced by pumping and some wells do not indicate the levels of stability that would warrant
11 increased production at this time. In Centro, the report describes general stability in groundwater
12 wells with declines in dry years and recovery in wet years and explains that wells near Hodge and
13 Lenwood roads demonstrate the effects of pumping and limited recharge (i.e., groundwater levels
14 have declined) over the last decade, but notes the positive response to recent imported water and
15 natural recharge events.

16 18. Considering the Watermaster’s assessment of Centro in 2023 in support of the 5%
17 ramp down, and the Department’s review of the Centro hydrographs,⁵ one year of apparent
18 recovery does not itself indicate groundwater stability that would warrant an increase in FPA for
19 the subarea.

20 19. For Baja, the Watermaster observes, “There is indication that in some wells the
21 decline has stopped or is reversing (increasing)” in response to reduced pumping in the subarea.
22 (Watermaster’s Thirtieth Annual Report, p. 28.) The Department agrees that the reductions in
23 pumping and apparent leveling off of groundwater levels in some wells are positive developments
24 for Baja.

25 20. The Department takes interest in the recent discussions regarding PSY in Centro
26 raised in the February 27, 2024, letter by the Golden State Water Company to the Watermaster

27 _____
28 ⁵ 2024 Custis Declaration, p. 25.

1 and the February 23, 2024, technical report by aquilogic attached to the letter;⁶ the subsequent
2 presentation by aquilogic on April 4, 2024; the Watermaster Engineer’s April 12, 2024,
3 memorandum in response to Golden State’s letter; and the Watermaster Engineer’s comments on
4 this subject in his declaration in support of the 2024-2025 FPA Motion. The Department is
5 concerned that the Watermaster Engineer describes the decline of water levels and water quality
6 in Centro identified by Golden State as being attributed to “concentrated pumping in small,
7 segmented aquifers along the river” (2024 Wagner Declaration, p. 4) without discussing the
8 potential downstream impacts of such concentrated pumping. The Department is concerned that
9 these pumping impacts may have negative impacts on public trust resources located there, and on
10 the flow of water to the lower Mojave River Basin including Baja and Camp Cady. The
11 Department supports the Watermaster’s plans to expand updated groundwater modeling to
12 include Centro (and Baja) to better understand how water management in each of the subareas
13 impact the entire basin, and particularly the lower Mojave River.

14 21. As noted above, the Department opposes the increase in PSY and FPA in Alto and
15 Centro for WY 2024-2025 based on the new PSY calculation method and updated Upper Mojave
16 River Basin Model because, among other factors, it is premature and contrary to previous
17 statements made by the Watermaster as recently as 2023.

18 22. To better understand the new PSY calculations, the new groundwater model and
19 underlying assumptions, and other matters, Department hydrogeologist Kit Custis and I met with
20 the Watermaster Engineer and staff on two occasions, March 11 and April 17, 2024, and
21 exchanged written correspondence. (2024-2025 FPA Motion, pp. 436-439.) Department staff also
22 attended the March 14, 2024, workshop on the PSY update and groundwater model for Alto and
23 Centro. Finally, I have reviewed the 2024 PSY Update and supporting materials and documents
24 further describing the Upper Mojave River Basin Model.

25
26
27 ⁶ Hastings, Stephanie. Letter by Golden State Water Company to Watermaster Board of
28 Directors, titled “Agenda Item 7 – Comments on Watermaster’s Production Safe Yield Update,”
dated February 27, 2024, and attached technical memorandum by aquilogic, titled “Progress
Report and Mojave Basin Transition Zone Water Budget,” dated February 23, 2024.

1 23. The Department strongly believes that developing a new conceptual groundwater
2 model for the entire Basin, as well as reviewing variables in the PSY calculations in light of new
3 information, has value to inform how changing environmental conditions and management
4 actions may impact the system. However, based on the Watermaster’s own statements in support
5 of the 2023 FPA motion and in the Watermaster’s Thirtieth Annual Report, as well as the
6 Department’s review of monitoring well data (2024 Custis Declaration, pp. 5-9, 13-16, 17, Att.
7 3), the Department recommends holding PSY and FPA in Alto and Centro and allowing for
8 continued monitoring of the response to the ramp down, natural recharge, and imported water in
9 the network of wells and surface water gages across all of the Mojave River Basin subareas. In
10 addition, the Department requests the Watermaster to expand the groundwater modeling effort
11 beyond Alto across the entire basin model domain used by USGS, and to investigate the causes of
12 the decreased recharge to Baja, and possible remedies, before any subareas are permitted to
13 increase production.

14 24. Figure H-1 in Exhibit H in the Judgment (“Figure H-1”) identified and mapped key
15 areas of riparian habitat to be protected, and established science-based maximum groundwater
16 level criteria at these sites as needed to support healthy riparian vegetation for these areas. As
17 noted in the Department’s 2004 Habitat Water Supply Management Plan for the Adjudicated
18 Area of the Mojave River Basin⁷ (“CDFW 2004 Habitat Water Supply Plan”), the Figure H-1
19 habitat areas were selected not because they represented the full extent of riparian vegetation
20 along the Mojave River, but because they existed in reasonable condition at the time the
21 Judgment was being developed that they might be maintained or restored under improved
22 groundwater management. (CDFW 2004 Habitat Water Supply Plan at p. 2.)

23 25. To ensure that these remnant groundwater dependent habitat areas were protected,
24 specific groundwater monitoring sites and maximum groundwater level criteria were established
25 in Table H-2 in Exhibit H in the Judgment (“Table H-2”), referred to as the “Riparian Habitat

26 _____
27 ⁷ California Department of Fish and Wildlife. July 2004. [Habitat Water Supply
Management Plan for the Adjudicated Area of the Mojave River Basin, San Bernardino County,
California](https://www.mojavewater.org/basin-management/watermaster/reports). This document is available at [www.mojavewater.org/basin-
management/watermaster/reports](https://www.mojavewater.org/basin-management/watermaster/reports).

1 Monitoring Wells.” The purpose of these monitoring sites and water table standards are made
2 clear in the Judgment: “[T]he Physical Solution must be implemented to seek to achieve water
3 table standards set for in Table H-2 which were proposed by [CDFW] as being necessary to
4 maintain and [conserve] the riparian resources in the areas shown on Figure H-1.” (Judgment,
5 Exhibit H, p. H-1.) Exhibit H goes on to provide the mechanism by which the status of these
6 trigger wells should be evaluated by the Watermaster when making FPA recommendations
7 stating, “In considering whether to increase or decrease the Free Production Allowance in a
8 Subarea, Watermaster shall, among other factors, take into consideration for the areas shown on
9 Figure H-1 the Consumptive Use of water by riparian vegetation, the protection of public trust
10 resources, including the species listed in Table H-1 and the riparian habitat areas shown on Figure
11 H-1, and whether an increase would be detrimental to the protection of public trust resources.”
12 (Judgment, Exhibit H, p. H-2.)

13 26. As illustrated in hydrographs Watermaster staff provided the Department on June 21,
14 2023 (attached to 2024 Custis Declaration as Att. 8), and those included in the Watermaster’s
15 Thirtieth Annual Report, the water table depth standards in Table H-2 for the conservation of the
16 riparian vegetation are not currently being met, and have not been met for significant periods of
17 time in recent history, in multiple Riparian Habitat Monitoring Wells.

18 27. At Camp Cady in Baja, in Riparian Habitat Monitoring Wells H3-1 and H3-2, depth
19 to groundwater has been significantly lower than the maximum identified in Table H-2 during
20 most years since the entry of the Judgment (2024 Custis Declaration, pp. 5, 6, 10, 11, 23, Att. 7,
21 8) and significant losses of riparian habitat in the Figure H-1 area have occurred. The Table H-2
22 groundwater depth criteria are also not being met in the H1-1 well in Alto near the upper
23 Transition Zone below the Lower Narrows and above the Victor Valley Wastewater Reclamation
24 Authority’s water treatment plant and associated discharges at Shay Road. (2024 Custis
25 Declaration, pp. 5, 13, 17.) Also, within Alto, at the H1-2 well in the vicinity of the Department-
26 owned Mojave Narrows Regional Park and the riparian forest habitat located there, the
27 hydrograph indicates numerous years below the maximum depth prior to recent recharge
28 associated with the significant winter stormflows beginning in December 2022. (2024 Custis

1 Declaration, pp. 5, 9, 13, 1-16, Att. 3.) The Department has noted discrepancies in the “new” H1-
2 2 well measurements since the original well was destroyed in early 2005 during a winter flood
3 event and replaced outside of the active channel in 2007; discussed these issues with the
4 Watermaster Engineer and staff (2024-2025 FPA Motion, p. 433); and reviewed the supporting
5 materials provided by the Watermaster Engineer and staff including the March 24, 2010,
6 memorandum by the Watermaster Engineer and related land surveys (2024-2025 FPA Motion,
7 pp. 436-439).

8 28. The Watermaster Engineer has proposed further evaluation of well H1-2, which the
9 Department agrees is necessary for accurate interpretation of the water level criteria. However,
10 based on the information Watermaster staff provided the Department, regardless of the specific
11 base elevation of the river channel that is used to measure the maximum water level below
12 ground surface near the well, the readings at the H1-2 well site have consistently exceeded the
13 maximum depth to water criteria during the last decade. (See 2024 Custis Declaration, pp. 5, 9,
14 13, 1-16, Att. 3.) The Department believes that the Riparian Habitat Monitoring Wells should be
15 considered by the Watermaster in the current FPA recommendation for Alto. Given the
16 importance of the Riparian Habitat Monitoring Wells in the Judgment, the Department has also
17 requested the Watermaster identify the hydrographs more clearly for these wells in future Annual
18 Reports along with the minimum water-table standards for each. Additionally, it would be helpful
19 to include the Watermaster’s interpretation of the Exhibit H-2 well hydrographs in the Annual
20 Report.

21 29. As noted above, the Department agrees with the Watermaster Engineer’s
22 recommendation that FPA be held at 20.5% of BAP in Baja, based on the significant recent
23 reductions in pumping and the proposed PSY calculations provided in the 2024 PSY Update,
24 Appendix E, Table 2.

25 30. In some portions of Baja, particularly at Camp Cady located below the Calico fault,
26 the evidence of stabilizing groundwater levels or recovery as observed in other portions of the
27 subarea is delayed, or not yet observed, and the groundwater table remains below that required to
28 support healthy riparian vegetation. The Watermaster Engineer has based the proposed PSY and

1 FPA recommendations for Baja on the analysis of the water level trends in some wells and not the
2 traditional PSY calculation method described in Table C-1 in Exhibit C of the Judgment (Table
3 C-1), and states that the two PSY calculations included in the 2024 PSY Update provide “course
4 crosscheck,” rather than the basis for this recommendation. These hydrological inventories are
5 completed for each subarea based on Table C-1 and generally referred to in Watermaster’s
6 Annual Reports and memoranda as “Table 5-1”. While the Department agrees with the resulting
7 FPA recommendation for Baja presented in the 2024 PSY Update, the Department finds this a
8 departure from the standard initial practice of evaluating PSY and determining FPA and believes
9 it is important to have a functioning water balance calculation for each subarea consistent with
10 paragraph A and Table C-1 in Exhibit C in the Judgment. The Department believes this practice is
11 consistent with the requirement in paragraph 24(o) in the Judgment regarding FPA, which states,
12 “In making its recommendation, Watermaster shall be guided by the factors set forth in Exhibit
13 ‘C’.”

14 31. The Department agrees with the Watermaster’s recommendations for Baja and
15 opposes the recommendations for Alto and Centro for the following reasons. The PSY and FPA
16 have been reduced in Baja by up to 80% from their highs at the time of entry of the Judgment.
17 This is far more than any of the other subareas. As Mr. Custis notes in his declaration, the surface
18 water flows from Centro to Baja have been reduced by more than 8,900 acre-feet per year from
19 their historical values at the time the Judgment was entered. (Custis Declaration, pp. 6, 19.) As
20 illustrated in Table 2 in Appendix E in the 2024 PSY Update for Baja, the Watermaster Engineer
21 has recognized that during the past 20 years, average gaged surface water inflow to Baja has
22 decreased from 17,358 acre-feet to just 7,500 acre-feet. The Department agrees that a significant
23 decrease in inflow has occurred in Baja as shown in Attachment 5 of Mr. Custis’s declaration.
24 (Custis Declaration, Attachment 5.) For the groundwater levels in Baja to fully stabilize and in
25 fact return close to the levels required for the riparian vegetation and public trust resources to
26 reach a healthy state, the upper subareas, including Alto and Centro, need to improve storage and
27 once again provide Baja with the surface flows it requires. To increase PSY and FPA in Alto and
28 Centro at the expense of Baja will not allow the riparian vegetation and public trust resources to

1 return to a healthy state. Therefore, Alto and Centro should not be ramped up and Baja should not
2 be further ramped down at this time.

3 32. The Department also objects to the significant decrease in allocation of water to
4 riparian vegetation in the reference PSY calculation for Baja provided in Table 2 in Appendix E
5 in the 2024 PSY Update. The 2,000 acre-foot value was a result of a thorough investigation by
6 Gregory C. Lines and Thomas W. Bilhorn their report, “Riparian Vegetation and Its Water Use
7 During 1995 Along the Mojave River, Southern California,” published by the USGS in 1996.⁸
8 This study and more recent mapping done for the Department by Menke et al. in their “California
9 Vegetation Map in Support of the Desert Renewable Energy Conservation Plan (2014-2016
10 Additions)”⁹ indicate the long-term lowering of the groundwater table in Baja, which persists
11 today, has negatively impacted riparian vegetation along the Mojave River that warrants further
12 investigation.

13 33. The Department believes that a reduction in groundwater allocation to riparian
14 vegetation in the PSY calculation is not consistent with the protection of public trust resources
15 within the Physical Solution and would effectively incentivize and reward the loss of riparian
16 habitat resulting from the groundwater depletion that has occurred since 1996. There should not
17 be any additional water available for production due to the unfortunate destruction of riparian
18 vegetation, especially when the Judgment requires such habitat be protected.

19 34. In addition, the amount of water dedicated to riparian vegetation, like the other
20 elements in the Table C-1 PSY calculation, should be representative of an appropriate base
21 period. The Department believes that the 1996 report by Lines and Bilhorn provides the correct
22 benchmark.

23
24 ⁸ Lines, G. and Bilhorn, T. 1996. [Riparian Vegetation and Its Water Use During 1995
Along the Mojave River, Southern California](http://www.mojavewater.org/data-maps/document-library/). *Water-Resources Investigations Report 96-4241*.
25 U.S. Geological Survey. The report is available at: [http://www.mojavewater.org/data-
maps/document-library/](http://www.mojavewater.org/data-maps/document-library/).

26 ⁹ Menke, J., E. Reyes, A. Hepburn, D. Johnson, and J. Reyes. 2016. California Vegetation
27 Map in Support of the Desert Renewable Energy Conservation Plan (2014-2016 Additions),
28 prepared for the California Department of Fish and Wildlife Renewable Energy Program and the
California Energy Commission by Aerial Information Systems, Inc.

1 35. For calculation of the water balance and PSY, all the riparian vegetation in each of
2 the subareas should be included. The new analysis of water use by riparian vegetation performed
3 by the Watermaster Engineer to arrive at the 984 acre-foot value using the OpenET platform
4 evaluated water use only within the riparian habitat area in the vicinity of Camp Cady¹⁰ (2024-
5 2024 FPA Motion, Exhibit D, p. 435), as mapped in Figure H-1. However, the prior studies and
6 the PSY calculation method detailed in the Judgment indicate that the consumptive uses included
7 in the subarea PSY calculations should be for the entire subarea. Moreover, preliminary
8 evaluation of riparian vegetation in Baja by the Department based on the vegetation mapping
9 completed by Menke et al. in 2016 mentioned above, suggests that the Figure H-1 area at Camp
10 Cady used in Watermaster’s calculation represents approximately 30% of the total extent of
11 riparian vegetation in Baja. Therefore, the water use value for riparian vegetation across the entire
12 subarea using the Watermaster Engineer’s proposed new method suggests it is significantly
13 higher.

14 36. Despite the implementation of the Physical Solution in the Judgment, as the result of
15 decades of overdraft, altered patterns of groundwater recharge, and infrequent major winter storm
16 flows reaching the lower portions of the Mojave River Basin, groundwater levels remain, or have
17 recently been measured, at depths below ground that are insufficient to support healthy stands of
18 groundwater dependent vegetation, establishment of new younger age classes of riparian
19 vegetation species, or re-establishment of native vegetation in areas impacted by disturbances
20 such as flood and wildfire, in some areas.

21 37. Based on my knowledge of the Mojave River system, the declining water levels at
22 Camp Cady, and the importance of riparian habitat to wildlife species, stabilizing and recovering
23 groundwater levels to achieve the water table standards set forth in Table H-2 is important and
24 necessary for the protection of public trust resources. The Mojave River and associated habitats
25 are critical to the survival of numerous plant and wildlife species in the Mojave Desert where
26 such habitats are increasingly limited as the result of altered hydrology, climate change, wildfire,
27 the spread of invasive species, and other factors. Table H-1 lists the 30 special status species

28 ¹⁰ See 2024 PSY Update, Appendix E, Figure 2, p. 3.

1 known to have occurred in the adjudicated area in 1996. Since then, at least two other special
2 status species have been identified, including least Bell's vireo (*Vireo bellii pusillus*) and
3 southwestern willow flycatcher (*Empidonax traillii*). Numerous common wildlife species rely on
4 Mojave River and its associated habitats.

5 38. For the convenience of the Court and to provide a history of the Department
6 properties within the adjudication, I am including paragraphs 39 to 53 below as part of my
7 declaration.

8 39. Detailed mapping of vegetation along the Mojave River was completed by USGS in
9 1995 for the purposes of characterizing the extent of vegetation communities along the Mojave
10 River and quantifying water use by groundwater dependent vegetation.¹¹ In 2016, a vegetation
11 map for the Mojave Desert including the Baja subarea, was completed on behalf of the
12 Department's Vegetation Classification and Mapping Program in association with the Desert
13 Renewable Energy Plan by Menke et al.¹² This updated mapping was completed to the vegetation
14 mapping standard for the state as described in Fish and Game Code section 1940 and complies
15 with the National Vegetation Classification System. The mapping was based on 2014 aerial
16 imagery and the classification system can generally be compared to the work by Lines and
17 Bilhorn nearly 20 years earlier in 1996.¹³

18 40. In 1995, USGS mapped 2,790 acres of riparian habitat in Baja, and in 2014 Menke et
19 al. mapped approximately 2,669 acres containing the same suite of species. Most notably, the
20 acreage of stands of Fremont's cottonwood trees (*Populus fremontii*), often mixed with willows
21 (*Salix spp.*), which represent the key components of desert riparian forest in the Mojave Desert,
22 was reduced by roughly 70% in Baja. Mesquite (*Prosopis glandulosa*) acreage increased slightly,
23 possibly due to differences in classification methods, and invasive salt cedar (*Tamarix spp.*)
24 decreased by approximately 120 acres, likely due to control activities.¹⁴ Menke et al. 2016
25 observed that many of the riparian communities were in poor condition, dying, or dead in 2014.¹⁵

26 ¹¹ Lines, G. and Bilhorn, T. 1996, n. 8, *supra*.

27 ¹² Menke, J., E. Reyes, A. Hepburn, D. Johnson, and J. Reyes. 2016, n. 9, *supra*.

28 ¹³ Lines, G. and Bilhorn, T. 1996, n. 8, *supra*.

¹⁴ Lines, G. and Bilhorn, T. 1996, n. 8, *supra*.

¹⁵ Menke, J., E. Reyes, A. Hepburn, D. Johnson, and J. Reyes. 2016, n. 9, *supra*.

1 The significant changes in vegetation observed between 1995 and 2014 warrant further
2 investigation using present day imagery and mapping techniques to better document the impacts
3 of lowered groundwater along the Mojave River in the entire adjudicated area on the public trust
4 resources, understand water requirements to maintain and restore native groundwater dependent
5 vegetation along the river, and inform future management.

6 41. Camp Cady consists of 1,866 acres of land acquired between 1979 through 2001 for a
7 total cost of \$2,046,481 using state bond monies. Camp Cady had extensive surface water and
8 riparian habitat when it was acquired. The decline in water levels has had a significant negative
9 effect on the biological resources along the Mojave River at Camp Cady and throughout the
10 basin. Much of the natural vegetation along the Mojave River is dependent on reliable access to
11 groundwater. The roots of mature groundwater dependent plants must be able to reach
12 groundwater to survive and occasional surface flows and prolonged periods of shallow
13 groundwater are needed for reproduction and growth of new individuals. Reproduction of riparian
14 woodland species is critical to sustaining these important habitat areas as older individuals die off
15 due to drought stress, wildfire, disease, age, and other causes of mortality.

16 42. As noted above, declining groundwater levels have caused widespread mortality
17 within the stands of cottonwood, mesquite, and willows at Camp Cady and throughout the
18 Mojave River.^{16,17,18,19} Notwithstanding these losses, Camp Cady still contains valuable riparian
19 vegetation. Riparian vegetation is a rare habitat type in the arid desert that despite only occurring
20 on less than 1% of the landscape, provides habitat for more species of birds than all other
21 vegetation types combined.²⁰ Areas of desert riparian vegetation serve as biodiversity

22 ¹⁶ California Department of Fish and Wildlife. July 2005. Land Management Plan for
23 Camp Cady Wildlife Area (Draft).

24 ¹⁷ See CDFW 2004 Habitat Water Supply Plan, n. 7, *supra*; Lines, G. and Bilhorn, T.
1996, n. 8, *supra*.

25 ¹⁸ Webb, R., Boyer, D., and K. H. Berry. 2001. Changes in Riparian Vegetation in the
Southwestern United State: Historical Change Along the Mojave River, California. *USGS Open
File Report 02-245*. U.S. Geological Survey.

26 ¹⁹ Webb, R., and S. Leake. 2005. Ground-water surface-water interactions and long-term
change in riverine riparian vegetation in the southwestern United States. *Journal of Hydrology*,
Volume 320, Issues 3–4, 2006, Pages 302-323.

27 ²⁰ Knopf, F., R. Johnson, R. Terrell, F. Samson, and R. Szaro. 1988. Conservation of
28 riparian ecosystems in the United States. *Wilson Journal of Ornithology (Bulletin)*. 100 (2), pp.

1 hotspots^{21,22} that support wildlife from vast areas of surrounding upland habitats,²³ serve as
2 critical bird breeding habitat, important migratory stopover sites, and wintering areas for many
3 bird species, as documented by the Department’s draft 2005 Land Management Plan for Camp
4 Cady.²⁴ (“CDFW 2005 Camp Cady LMP”). Lytle et al. 2017 identified cottonwood riparian
5 forests as the most species rich riparian ecosystems in western North America²⁵ and other
6 researchers similarly found that riparian deciduous forests of cottonwood and willow, with the
7 highest forest cover and varied structure provided the highest quality bird habitats.²⁶ A total of
8 106 bird species have been documented using riparian vegetation at Camp Cady,²⁷ including
9 southwestern willow flycatcher, which is listed as endangered under the California Endangered
10 Species Act (CESA), and least Bell’s vireo, which is listed as endangered under CESA and the
11 federal Endangered Species Act (ESA). Tricolored blackbird (*Agelaius tricolor*), a California
12 Species of Special Concern, utilize wetland vegetation associated with ponds on the property.
13 Habitat with a cottonwood and willow canopy and a mesquite understory had the highest
14 abundance of birds of all habitat types at the wildlife area.²⁸

15 43. In 2015, the Department conducted southwestern willow flycatcher surveys at Camp
16 Cady. Four migratory flycatchers were documented there.²⁹ Since southwestern willow flycatcher

17 272-284.

18 ²¹ Webb, R., and S. Leake. 2005. Ground-water surface-water interactions and long-term
change in riverine riparian vegetation in the southwestern United States, n. 19, *supra*.

19 ²² Rohde, M., Stella, J., Roberts, D., and M. Singer. 2021. [Groundwater dependence of
riparian woodlands and the disrupting effect of anthropogenically altered streamflow.](#)
20 *Proceedings of the National Academy of Sciences of the United States of America* Vol. 118 No.
25

21 ²³ Merritt, D., and Bateman, H. 2012. [Linking stream flow and groundwater to avian
habitat in a desert riparian system.](#) *Ecological Applications* 22(7), 1973-1988.

22 ²⁴ CDFW 2005 Land Management Plan for Camp Cady Wildlife Area (Draft), n. 16,
supra.

23 ²⁵ Lytle D.A., D.M. Merritt, J.D. Tonkin, J.D. Olden, L.V. Reynolds. [Linking river flow
regimes to riparian plant guilds: a community-wide modeling approach.](#) *Ecol Appl.* 2017
24 Jun;27(4):1338-1350.

25 ²⁶ Merritt, D., and Bateman, H. 2012. [Linking stream flow and groundwater to avian
habitat in a desert riparian system, n. 23, supra.](#)

26 ²⁷ Tennant, Patrick. 2002. The Impacts of Saltcedar (*Tamarix ramosissima*) on the Avian
Communities of a Mojave Desert Wildlife Area. M.S. Thesis. California State University,
Fullerton.

27 ²⁸ *Ibid.*

28 ²⁹ Greene, Lacey. 2015. 2015. USFWS Report on Willow Flycatcher, Yellow-billed
Cuckoo, and Bell’s Vireo Surveys in Inyo and Mono Counties. California Department of Fish and

1 subspecies identification requires genetic information, it is unknown which subspecies was
2 detected at Camp Cady.³⁰

3 44. In a 2018 publication, researchers from U.C. Berkeley conducted extensive bird
4 surveys in the Mojave Desert by re-visiting locations surveyed by biologists in the early twentieth
5 century.³¹ The study found strong evidence of “an avian community collapse” with survey sites
6 losing 43% of their species on average and concluded the presence of surface water was an
7 important factor in retaining species diversity. The authors recommend that changes in water
8 management policies are needed to reverse the trend of drying from groundwater removal.
9 Subsequent analysis published by this group and others in 2019 found that water requirements are
10 increasingly important drivers of population declines, particularly as needed to maintain body
11 temperature in extreme heat.³²

12 45. Shallow and perennial surface water, as occurred at Camp Cady, is critical for
13 numerous wildlife species in Baja. A 2018 survey published by USGS identified a total of 11
14 species of amphibians and reptiles at Camp Cady, including southwestern pond turtle (*Actinemys*
15 *pallida*).³³ The survey concluded that southwestern pond turtle, which was common at that
16 location in the late 1990s and documented as a breeding population, has now been extirpated.³⁴
17 Further study is needed as the species has been found to be at significant risk of extinction by
18

19
20
21
22
23
24
25
26
27
28

Wildlife.

³⁰ *Ibid.*

³¹ Iknayan, Kelly and Steven Beissinger. 2018. Collapse of a desert bird community over
the past century driven by climate change. [Proceedings of the National Academy of Sciences
115 \(34\) 8597-8602](#) (August 6, 2018).

³² Riddell, E., Iknayan, K., Wolf, B., Sinervo, B. and S. Beissinger. 2019. Cooling
requirements fueled the collapse of a desert bird community from climate change. [Proceedings of
the National Academy of Sciences 116 \(43\) 21609-21615/](#).

³³ Cummings, K., Puffer, S., Holmen, J., Wallace, J., Lovich, J., Meyer-Wilkins, K.,
Petersen, C. and R. Lovich. 2018. Biodiversity of amphibians and reptiles at the Camp Cady
Wildlife Area, Mojave Desert, California and comparisons with other desert locations. [California
Fish and Game 104\(3\): 129-147](#).

³⁴ The southwestern pond turtle is a California Species of Special Concern and currently
under evaluation by the U.S. Fish and Wildlife Service to be listed as a threatened species under
ESA.

1 USGS researchers³⁵ and the U.S. Fish and Wildlife Service.³⁶ In addition, when perennial water
2 existed in the river, desert bighorn sheep (*Ovis canadensis nelson*), a California fully protected
3 species, were known to visit the property from the near Cady Mountains for water (CDFW 2005
4 Camp Cady LMP) and continue to rely on water from the lower Mojave River in nearby Afton
5 Canyon.

6 46. Camp Cady was acquired in 1979 to protect the surface water and associated riparian
7 habitats. When running and pooled surface water was present, cottonwoods and willows were
8 abundant with a dense understory of mesquite. According to Department records, the Mojave
9 River typically surfaced in the center of Camp Cady and generally flowed from late October to
10 August. These surface flows later ceased because of the declining groundwater levels and have
11 not returned except for rare large storm events typically occurring in the winter months. (CDFW
12 2004 Habitat Water Supply Plan; CDFW 2005 Camp Cady LMP.)

13 47. According to Department records, Camp Cady in the late 1970s contained extensive
14 areas of mesquite bosque, a type of forest habitat with mesquite dominant, of more than 500
15 acres; about 60 acres of cottonwood and willow riparian forest; three groundwater-fed riverbed
16 ponds totaling approximately six acres; and other locations within the riverbed with seasonal
17 springs and seeps. In addition to the perennial ponds, prior to 1982, flowing surface water of the
18 Mojave River was typically present from late fall into the summer months. Under earlier
19 management, the Department attempted to re-establish open water habitat through the
20 construction of river-bottom levees, totaling approximately 18 acres when sufficient water was
21 available. By the late 1980s, this area had been reduced to six acres and after repeated flood
22 damage to the levees, declining water availability, and changing management objectives for the
23 active channel, this practice ended in the late 1990s. By 1997, there was a loss of more than 400

24 _____
25 ³⁵ Lovich, J., Jefferson, G., Reynolds, R., Scott, P., Shaffer, H., Puffer, S., Greely, S.,
26 Cummings, K., Fisher, R., Meyer-Wilkins, K., Gomez, D., Ford, M., and C. Otahal. 2021.
27 [Western pond turtles in the Mojave Desert? A review of their past, present, and possible future. *Vertebrate Zoology* 71: 317–334.](#)

28 ³⁶ U.S. Fish and Wildlife Service. 2023. [Species status assessment report for the
northwestern pond turtle \(*Actinemys marmorata*\) and southwestern pond turtle \(*Actinemys
pallida*\)](#), Version 1.1, April 2023. U.S. Fish and Wildlife Service, Ventura Fish and Wildlife
Office.

1 acres of mesquite, the riverbed ponds and seeps had been lost, and remaining cottonwood and
2 willow forest was limited to mostly mature trees. By 2003, the cottonwood/willow stands
3 consisted of mostly mature trees with scattered patches of mesquite, many of which were
4 unhealthy with sparse leaves. (CDFW 2004 Habitat Water Supply Plan; CDFW 2005 Camp Cady
5 LMP.) Of the 1,000 acres of riparian and aquatic habitat existing in the late 1980s, less than 200
6 acres remained healthy by 2004, with the remainder highly water stressed or dead. The only open
7 water habitat present at Camp Cady today exists in two pump-fed lined habitat ponds totaling 1.6
8 acres maintained as a refuge for Mojave tui chub (*Siphateles bicolor mohavensis*), a fish listed as
9 endangered under CESA and ESA, and a small, lined pond of 0.1 acre for wildfire protection.

10 48. Due to the ecological significance³⁷ of desert riparian vegetation types the water
11 needs of these natural communities have been the subject of comprehensive study. USGS found
12 that tree mortality in cottonwood-willow woodlands increased significantly on the Mojave River
13 where the water-table depth was greater than about seven feet.³⁸ The ideal water-table depth for
14 healthy tree growth was observed to be between two and four feet.³⁹ Cottonwoods and willows
15 can withstand periods of stress such as temporary reductions in the water table from seven to ten
16 feet. However, prolonged periods of lowered groundwater resulted in near complete mortality in
17 the woodland species. These groundwater requirements for established mature cottonwoods have

18
19
20
21
22
23 ³⁷ See Webb, R., and S. Leake. 2005. Ground-water surface-water interactions and long-
24 term change in riverine riparian vegetation in the southwestern United States, n. 19, *supra*;
25 Knopf, F., R. Johnson, R. Terrell, F. Samson, and R. Szaro. 1988. Conservation of riparian
ecosystems in the United States, n. 20, *supra*; and Rohde, M., Stella, J., Roberts, D., and M.
Singer. 2021. [Groundwater dependence of riparian woodlands and the disrupting effect of
anthropogenically altered streamflow](#), n. 22, *supra*.

26 ³⁸ Lines and Bilhorn, 1996, n. 8, *supra*; Lines, Greg. 1999. "Health of Native Riparian
Vegetation and Its Relation to Hydrologic Conditions along the Mojave River, Southern
California." *USGS Water Resource Investigation Report 99-4112*. U.S. Geological Survey.

27 ³⁹ Lines, Greg. 1999. "Health of Native Riparian Vegetation and Its Relation to
28 Hydrologic Conditions along the Mojave River, Southern California, n. 38, *supra*.

1 been substantiated by numerous other studies.^{40,41,42,43,44} In a 1999 study by Greg Lines, he found
2 reproduction of cottonwoods and willows is essential for the continued persistence of these
3 vegetation types and occurs both from root sprouting from mature trees and germination of seeds
4 commonly occurs along temporarily wetted areas.⁴⁵ However, seedlings will die off after
5 germination if the water table recedes too quickly (>1 inch per day)⁴⁶ for their roots to reach
6 perennial water.⁴⁷ Lines observed that no production occurs at sites where the water-table was
7 beyond about five feet in spring.⁴⁸ Therefore, while the seven-foot minimum water table
8 standards established in Table H-2 for the riparian forest areas may be protective of mature trees,
9 they should be considered a minimum standard, as the general health of the community and
10 continued recruitment of new cottonwood and willow trees requires periods of shallower
11 groundwater and surface flow.⁴⁹ There is now a significant body of literature documenting the
12 water needs to maintain healthy cottonwood forests, which includes both intermittent surface
13 flows and gradual declines in groundwater that allow the rapidly growing root to stay in contact
14 with groundwater.⁵⁰

15 _____
16 ⁴⁰ Horton, J.L., H.T. Kolb, and S.C. Hart. 2001. [Physiological Response to Groundwater
Depth Varies among Species and with River Flow Regulation](#). *Ecological Applications*. 11. 1046-
17 1059.

18 ⁴¹ Stromberg, J.C., Beauchamp, V.B., Dixon, M.D., Lite, S.J., Paradzick, C., 2007.
[Importance of low-flow and high-flow characteristics to restoration of riparian vegetation along
rivers in arid southwestern United States](#). *Freshwater Biology* 52, 651e679.

19 ⁴² Stromberg, J. 2013. [Root patterns and hydrogeomorphic niches of riparian plants in the
American Southwest](#). *Journal of Arid Environments*. 94. 1–9.

20 ⁴³ Stromberg, J.C., and Merritt, D.M. 2016. Riparian plant guilds of ephemeral,
21 intermittent and perennial rivers. *Freshwater Biology*, 61, 1259-1275.

22 ⁴⁴ Williams, J., J.C. Stella, S.L. Voelker, A.M. Lambert, L.M. Pelletier, J.E. Drake, J.M.
Friedman, D.A. Roberts, and M.B. Singer. 2022. [Local groundwater decline exacerbates response
of dryland riparian woodlands to climatic drought](#). *Glob Chang Biol*. Nov;28(22):6771-6788.

23 ⁴⁵ Lines, Greg. 1999. "Health of Native Riparian Vegetation and Its Relation to
Hydrologic Conditions along the Mojave River, Southern California, n. 38, *supra*.

24 ⁴⁶ Rood, S., Braatne, J., and F. Hughes. 2003. [Ecophysiology of riparian cottonwoods:
stream flow dependency, water relations and restoration](#). *Tree Physiology* 23, 1113–1124.

25 ⁴⁷ Lines, Greg. 1999. "Health of Native Riparian Vegetation and Its Relation to
Hydrologic Conditions along the Mojave River, Southern California, n. 38, *supra*.

26 ⁴⁸ *Ibid*.

27 ⁴⁹ *Ibid*.

28 ⁵⁰ Rood, S., Braatne, J., and F. Hughes. 2003. [Ecophysiology of riparian cottonwoods:
stream flow dependency, water relations and restoration](#), n. 46, *supra*.

1 49. Mesquite trees and shrubs are tolerant of drier environments than cottonwood and
2 willow woodlands, however, they are reliant on good access to groundwater. USGS found healthy
3 mesquite where the water-table depth ranged from eight to ten feet, but that mortality was
4 extremely high where groundwater was reduced below ten feet by pumping.⁵¹ Root sprouting by
5 mesquite, as necessary for reproduction, occurred where the water table was at about eight feet in
6 the spring. Mesquite may tolerate periods of stress when the groundwater table exceeds ten feet.
7 However, mortality is likely to increase, and reproduction will not occur if groundwater depth
8 exceeds about 20 feet.⁵² Where groundwater levels are maintained within the tolerances of
9 cottonwoods, willows, and mesquite, these native riparian species may persist and compete with
10 invasive salt cedar, but where groundwater declines beyond these thresholds salt cedar is
11 dominant,⁵³ conversion to barren sand or upland shrub species occurs, and biological diversity
12 declines.⁵⁴

13 50. As noted above, the groundwater dependent habitats along the Mojave River have
14 undergone significant environmental change due to groundwater drawdown, causing the death of
15 deep-rooted, native vegetation and the reactivation of wind-blown sand. Although widespread,
16 these impacts have been perhaps most significant in Baja and Camp Cady where the loss of
17 groundwater storage has been the most significant and where the Department has devoted the
18 most attention due to the Department's land ownership and continued staff. The loss of near-
19 surface water has converted an area near Camp Cady that was vegetated in the 1960s to a dry,
20 migrating dune field that inundates both vegetation and buildings. Groundwater levels continue to
21 exceed the critical depth of seven to ten feet needed to sustain a healthy riparian forest. (2024
22 Custis Declaration, pp. 6, 10-11, 23, Att. 7, 8.) As a result, riparian vegetation such as cottonwood
23 and willows get scoured during large flood events and their seedlings can no longer get

24 _____
25 ⁵¹ Lines, Greg. 1999. "Health of Native Riparian Vegetation and Its Relation to
Hydrologic Conditions along the Mojave River, Southern California, n. 38, *supra*.

26 ⁵² *Ibid*.

27 ⁵³ Lite, S.J., and J.C. Stromberg. 2005. [Surface water and ground-water thresholds for
maintaining Populus - Salix forests, San Pedro River, Arizona.](#) *Biological Conservation*.
2005;125:153-167.

28 ⁵⁴ Merritt, D., and Bateman, H. 2012. [Linking stream flow and groundwater to avian
habitat in a desert riparian system](#), n. 23, *supra*.

1 established due to the lowered ground water table. New areas of the river are now open to wind
2 erosion. Without competition from native vegetation, non-native salt cedar becomes established
3 and further draws down the water table.

4 51. In 2001, the Department purchased, without using money from the Biological
5 Resources Trust Fund, the 314-acre Hilarides property at a total cost of \$819,350. The purchase
6 included 900 acre-feet of water rights in addition to the land. The Hilarides property is located in
7 Baja adjacent to Camp Cady and is now part of the designated Camp Cady Wildlife Area. Prior to
8 the Department's purchase of the Hilarides property, the pivot well in the lowlands portion of that
9 property pumped approximately 900 acre-feet of water per year. Since the Department's purchase
10 of the Hilarides property began, the use of the pivot well has decreased roughly 90% from
11 historical production. The pivot is used to irrigate low water demand crops including the seed
12 grass millet (various species) and Sudan grass (*Sorghum spp.*) for the purposes of providing
13 wildlife habitat and feed and stabilizing areas of sand that would otherwise overtake Harvard
14 Road.

15 52. The 1,647-acre Palisades Ranch was acquired by Western Rivers Conservancy in
16 2018 using grant funding from the U.S. Fish and Wildlife Service and the state Wildlife
17 Conservation Board, and subsequently transferred to the Mojave Desert Land Trust ("MDLT")
18 for long-term protection and management. Palisades Ranch is located in the Alto transition zone
19 and includes extensive riparian forest habitat within the Figure H-1 area. Since the acquisition of
20 this property, the Department has worked with the Watermaster to disperse funds from the
21 Biological Resources Trust Fund, in accordance with paragraph 3 in Exhibit H in the Judgment,
22 and the Watermaster approved the CDFW 2004 Habitat Water Supply Plan for the study and
23 enhancement of species and habitats located there, including the purchase of an additional 30
24 acre-feet of BAP to support habitat at the ranch. Biological Resources Trust Fund monies have
25 also been allocated to MDLT to conduct surveys for the Mojave River vole (*Microtus*
26 *californicus mohavensis*) and to initiate the first phase of a riparian habitat restoration project at
27 Palisades Ranch, which is anticipated to be expanded in future years.

1 53. The Department continues to coordinate with the Watermaster and Mojave Desert
2 Resource Conservation District on the distribution of funds from the Biological Resources Trust
3 Fund to projects to benefit the Exhibit H areas on an annual basis. Recently funded and ongoing
4 projects include surveys for southwestern pond turtles by USGS; fuel reduction and invasive
5 species control along the Mojave River, including the study of the salt cedar biocontrol beetle
6 (*Diorhabda carinulata*) to reduce the threat of wildfire to remaining habitats in the river corridor
7 and reduce the water use by invasive salt cedar; a trial habitat restoration project that has been
8 underway at Camp Cady since 2015, led by partner Quail Forever; and maintaining the Camp
9 Cady pivot to provide wildlife habitat and mitigate windblown sand, and to offset costs to MWA
10 to continue measurement of the H1-2 well located near the Department's Mojave Narrows
11 Regional Park.

12 54. In conclusion, the Department opposes the Watermaster's recommendations that PSY
13 and FPA in Alto and Centro be increased to 53.3% and 60%, respectively for WY 2024-2025
14 because they are premature and will negatively impact Baja. Instead, the Department has
15 encouraged the Watermaster to continue to evaluate and monitor the response to reductions in
16 pumping and other factors in the existing network of wells and stream gages, including the
17 Riparian Habitat Monitoring Wells, before increasing production for the first time since the 1996
18 Judgment. The Department finds that there is evidence from the Riparian Habitat Monitoring
19 Wells (2024 Custis Declaration, pp. 5, 8, 13-16), and mapping of vegetation within the Figure H-
20 1 riparian habitat areas, that suggests that increasing production in these areas is contrary to the
21 protection of public trust resources by lowering the groundwater table below a level necessary to
22 maintain healthy riparian vegetation communities along the Mojave River. Further, as stated in
23 the 2024 Custis Declaration, despite the increase in surface water inflow in the upper Mojave
24 River Basin that has occurred since the base period, inflow to Baja and the associated
25 groundwater recharge in the lower river system has been reduced by more than 50%, resulting in
26 a water balance surplus in Centro at Baja's expense. Prior groundwater modeling has highlighted
27 the impacts of pumping in the upper Mojave Basin and underscores the importance of
28 management in the upper system on Baja. Instead of increasing production in Alto and Centro,

1 Watermaster should adopt a policy to return the historical surface flows to Baja and should not
2 allow the upper subareas to produce additional water at the expense of the lower Mojave River. In
3 fact, the public trust resources, such as the riparian vegetation in Baja, require the return of
4 groundwater levels to levels more supportive of those resources and vegetation and believe that
5 more needs to be done to protect those resources.

6 55. The Department also encourages the Watermaster to continue to employ new and
7 updated methods such as the numerical groundwater model and expand the use of the updated
8 model to include the entire adjudicated area. Such modeling, in combination with further study of
9 the natural and physical environment may provide critical insight into important issues that
10 remain, such as the loss of recharge in the lower Basin, as well as possible management solutions.

11 56. The Department agrees with the Watermaster's other FPA recommendations for WY
12 2024-2025 that FPA be held at 20.5% in Baja, reduced by 5% in Este, and held at 50% in Oeste.

13 57. Finally, the Department opposes the significant reduction in consumptive water use
14 allocation to riparian vegetation in Baja from 2,000 acre-feet to 984 acre-feet as shown in the
15 updated reference PSY calculation for Baja in the 2024 PSY Update, as well as the departure
16 from the PSY calculation method described in Exhibit C.

17 I declare under penalty of perjury, under the laws of the State of California, that the
18 foregoing is true and correct.

19 Executed on May 21, 2024 in Bishop, California.

20
21
22 
AARON JOHNSON

23 LA1990CV1678
24 66807865.docx

ATTACHMENT A

Aaron P Johnson
(760) 872-1171

EDUCATION

Bachelors Degree in Environmental Studies, Highest Honors
University of California, Santa Cruz (UCSC), June 2005
Merrill College Honors (UCSC)

TRAININGS/CERTIFICATIONS

Water Measurement Devices and Methods, UC Cooperative Extension
Measuring and Monitoring Rare Plant Populations, CDFW
Vegetation Rapid Assessment, California Native Plant Society
Wildland Weed Mapping Methods, Utah State University

PROFESSIONAL EXPERIENCE

California Department of Fish and Wildlife (CDFW), Senior Environmental Scientist. Supervise and oversee the CDFW Inland Deserts Region's northern lands program staff in a variety of complex activities related to management of CDFW lands, water rights, and related activities. I am responsible for the overall planning, analysis, and preparation of land conservation documents, land management plans, and associated maintenance and restoration projects for state owned and managed properties in Inyo, Mono, and northern San Bernardino Counties, and ensure environmental compliance for the program. This includes the preparation of environmental documents, grant requests, contracts, special use agreements, and various assorted reporting, including local, state, and federal environmental compliance and coordination such as required under CEQA, CESA, LSA and NEPA (10/2021-present).

Environmental Scientist. As an Environmental Scientist at Range C in the CDFW lands program I supported the Senior Environmental Scientist in various planning and analysis tasks including the preparation of land conservation documents, land management plans, and maintenance and restoration projects for CDFW properties, and completed environmental review and compliance tasks and documents. I served as lead person for the Wildlife Habitat Supervisor, Scientific Aids, and Wildlife Habitat Assistant coordinating day-to-day work assignments and priorities (1/2015-9/2021).

Eastern Sierra Land Trust, Lands Director. In this position I directed the land conservation and stewardship programs of a non-profit land conservation organization. The position involved managing complex real estate transactions to protect land and water resources, coordinating closely with private landowners and partner agencies, and grant writing and management. I conducted annual monitoring of all land trust properties and easements, completed monitoring reports, prepared resource inventories and reports and plans based on field data, interviews, and coordination with resource management agencies. The position required strong organizational skills, project management, and daily written and verbal communication (10/2008-12/2014).

USDA, Exotic & Invasive Weed Research Unit. Biological Science Technician. In this position I supported USDA Agricultural Research Service (ARS) efforts to develop a remote sensing/GIS spatial plant ecology program while also participating in regular botanical fieldwork to support the research of my unit. My regular office duties included hyperspectral remote sensing image processing, GIS mapping and analysis, data collection flight planning, as well as plant ecology lab work. Fieldwork included quantitative plant ecology data collection tasks related to the population demography of invasive plants, GPS spatial data collection, as well as supervision of volunteers on mapping projects (10/2007 - 10/2008).

City of Boulder, Open Space & Mountain Parks. Vegetation Management Crew Leader. This position included budgeting, hiring and training of the crew, as well as daily supervision. The office component of this position included project planning, GIS data management, quality assurance, and report writing. This work also included planning for and managing daily weed removal work projects, plant identification, detailed project tracking and reporting, designing, and implementing monitoring plans, as well as educating the public and local landowners (3/2006 - 9/2007).

ATTACHMENT B



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Inland Deserts Region
787 North Main Street, Suite 220
Bishop, CA 93514
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director



February 20, 2024

Mojave Basin Area Watermaster
Mojave Water Agency
13846 Conference Center Drive
Apple Valley, CA 92307-4377

Subject: Updates to Production Safe Yield and Free Production Allowance for Water Year 2024-2025

Dear Watermaster Board Members,

The California Department of Fish and Wildlife (CDFW) understands that Watermaster Engineer staff will be presenting its formal recommendation for free production allowance (FPA) for Water Year (WY) 2024-2025 at the upcoming February 28, 2024, Watermaster Board (Board) meeting. CDFW hereby submits its preliminary comments and concerns regarding recent changes to the process used to re-calculate production safe yield (PSY) and the resulting FPA in the Alto and Centro subareas. As explained below, CDFW is concerned that the Watermaster's new approach directly contradicts the Court's recommendation and the Watermaster's own conclusions in 2023. In addition, CDFW and the other parties have not had enough time to review and evaluate this new approach. For these reasons, we request that the Watermaster not adopt the new approach to calculating PSY in Alto and Centro subareas for the WY 2024-2025 FPA recommendations, and instead provide additional time for review and engagement by CDFW and the other parties to discuss new groundwater modeling information regarding water supply, the PSY calculations, and long-term groundwater elevation monitoring across the basin.

CDFW is the trustee agency for the state's fish and wildlife resources and is a party to the Judgment After Trial, dated January 10, 1996 (Judgment). In addition, CDFW is a landowner in two of the five subareas in the Judgment, the Baja and Alto Subareas. In the Baja Subarea, CDFW owns the Camp Cady Wildlife Area (Camp Cady), and in the Alto Subarea, CDFW owns the Mojave Narrows Regional Park and Mojave River Fish Hatchery.

In 1968, CDFW purchased the Mojave Narrows Regional Park, in large part for the extensive riparian habitat existing along the Mojave River which flows through the park. In 1969, CDFW purchased the Mojave River Fish Hatchery, the tailwater from which is a critical source of surface water for the Mojave Narrows Regional Park and other Verde Ranch Producers.

For more than a decade, CDFW has supported the Board's annual recommendations to the Court for reductions in FPA to bring the basin into balance, finding the

Conserving California's Wildlife Since 1870

recommendations consistent with the physical solution in the Judgment. However, CDFW is now concerned that Watermaster staff have introduced complex new methods to calculate PSY and has recommended increasing, rather than decreasing, FPA in some subareas, without the opportunity for CDFW to review and comment on the recommendations and the methods behind them.

CDFW first became aware of the new proposal to increase PSY and FPA in the Alto and Centro subareas in the Watermaster's status report to the court on December 27, 2023, "Watermaster's Status Report Regarding Production Safe Yield and Free Production Allowance Calculations," and again in the January 24, 2024, Watermaster meeting item, "Groundwater Model & Production Safe Yield Update" presented by Watermaster Engineer Robert Wagner. CDFW has not yet been provided with final FPA recommendations for WY 2024-2025. However, these two documents indicate that Watermaster staff are prepared to reverse both the Court's recommendation and its own recommendation by increasing PSY in the Alto and Centro subareas and recommending an increase in FPA.

In his May 2023 declaration to the Court, Mr. Wagner recommended holding FPA in the Alto subarea at 50% for five years, noting that a reduction in PSY was needed and the groundwater model supported the reduced PSY and FPA. Furthermore, the Court's June 2023 order noted the need for PSY in the Alto subarea to be adjusted downward and encouraged the Watermaster to consider variability in supply over different base periods, including the recent extended period of drought. In the September 2023 Court order Judge Reimer noted that "...Alto's FPA has been reduced to just above PSY. Nevertheless, the storage levels have continued to drop, just as they have for the last 10 years. If FPA is reduced to PSY, but groundwater storage is still declining...it's logical to question whether the PSY calculations are founded on correct assumptions."


CDFW has not had adequate time to evaluate the PSY re-calculation methods and results, or the new groundwater modeling that is apparently being used to support such increases. While CDFW supports evaluating new approaches to re-calculate PSY in the various subareas that take drought and climate change into account, as well as the use of improved tools, such as numerical groundwater models, CDFW also believes that it is too early to integrate such new methods into the PSY and FPA recommendations for the coming year, particularly when the outputs of such novel approaches appear to indicate such a substantial change in basin management. CDFW would like to engage more closely with the Watermaster staff to better understand the influence of the model on PSY, PSY re-calculation methods, changes to storage, and ongoing monitoring of the results of the rampdown in the subareas.

Exhibit H of the Judgment, Biological Resource Mitigation, states that the physical solution was developed in consideration of the water needs of public trust resources and seeks to achieve certain minimum groundwater table standards necessary to maintain sensitive riparian resources and species associated with the Mojave River system. CDFW does not believe that increasing either PSY or FPA in the Alto and

Centro subareas is consistent with the objectives of maintaining riparian resources in the basin at this time.

CDFW appreciates the opportunity to communicate its concerns regarding the Watermaster staff's proposal to integrate the recent PSY recalculations and groundwater modeling efforts into the FPA recommendations for WY 2024-2025. In summary, CDFW is concerned that increasing production in the Alto and Centro subareas this year is counter to the Court's direction to re-evaluate safe yield in light of recent decades of drought and continued depletion of storage in Alto, represents a significant change in direction by the Watermaster both in terms of the methods to calculate PSY and anticipated outcomes, and may result in undesirable impacts to groundwater levels and associated fish and wildlife resources. CDFW requests additional time to engage with the Watermaster staff on the new PSY calculations and groundwater model. Additionally, more time is needed to continue to review changes in monitoring well groundwater elevation data in response to the ongoing rampdown of pumping, particularly within the Exhibit H areas along the Mojave River where fish and wildlife species have been severely impacted since groundwater pumping increased dramatically in the 1950s. CDFW will be attending the February 28 and March 27, 2024, Board meetings when the Board will formally discuss and consider this matter.

Sincerely,

DocuSigned by:

6477ACD4E0DE4DB...

Aaron Johnson
Senior Environmental Scientist
Inland Deserts Region

ec:

CDFW

Chris Hayes, Environmental Program Manager
chris.hayes@wildlife.ca.gov

Alisa Ellsworth, Environmental Program Manager
alisa.ellsworth@wildlife.ca.gov

Stephen Puccini, Attorney V
stephen.puccini@wildlife.ca.gov

Department of Justice

Marilyn H. Levin, Deputy Attorney General
marilyn.levin@doj.ca.gov

Noah Golden-Krasner, Deputy Attorney General V
noah.goldenkrasner@doj.ca.gov

ATTACHMENT C



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Inland Deserts Region
787 North Main Street, Suite 220
Bishop, CA 93514
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director



March 19, 2024

Mojave Basin Area Watermaster
Mojave Water Agency
13846 Conference Center Drive
Apple Valley, CA 92307-4377

Subject: Updates to Production Safe Yield and Free Production Allowance for Water Year 2024-2025

Dear Watermaster Board Members,

The California Department of Fish and Wildlife (CDFW) has reviewed the Watermaster's recommendation for free production allowance (FPA) for Water Year (WY) 2024-2025 as presented at the February 28, 2024, Watermaster Board (Board) meeting and further described in the February 28, 2024, "Production Safe Yield & Consumptive Use Update" (2024 PSY Update) and draft "30th Annual Report of the Mojave Basin Area Watermaster" (Watermaster's 30th Annual Report). CDFW hereby submits its comments to the Board regarding FPA and the recently completed 2024 PSY Update in advance of the Board's March public hearing to receive comments and adopt the proposed FPA for WY 2024-2025.

As noted in my remarks to the Board in February and in our comment letter dated February 20, 2024, CDFW is concerned that implementation of the Watermaster's new approach to determining PSY and the resulting increases in FPA for the Alto and Centro Subareas is premature. Specifically, CDFW notes that that the increase in FPA in Alto is reliant on complex modeling outputs (and the underlying model assumptions), as well as significant imported artificial recharge in the future, rather than observed trends reflected in the ground and surface water monitoring network. CDFW believes that a more cautious "wait and see" approach is warranted given the sensitive fish and wildlife resources at risk. CDFW recommends that the artificial recharge prescribed by the Watermaster be applied first, followed by monitoring to verify the projected modeling results before FPA is increased. CDFW has additional concerns with the new PSY recommendations explained further below.

CDFW ROLE

CDFW is the trustee agency for the state's fish and wildlife resources and is a party to the Judgment After Trial, dated January 10, 1996 (Judgment). In addition, CDFW is a landowner in two of the five subareas in the Judgment, the Baja and Alto Subareas. In the Baja Subarea, CDFW owns the Camp Cady Wildlife Area (Camp Cady), and in the Alto Subarea, CDFW owns the Mojave Narrows Regional Park and Mojave River Fish Hatchery. Exhibit H of the Judgment, Biological Resource Mitigation, states that the

physical solution was developed in consideration of the water needs of public trust resources and seeks to achieve certain minimum groundwater table standards necessary to maintain sensitive riparian resources and species associated with the Mojave River system.

COMMENTS AND RECOMMENDATIONS

CDFW met with the Watermaster Engineer and staff on March 11, 2024, to discuss questions pertaining to the 2024 PSY update and related topics and has subsequently requested additional materials and information. CDFW staff appreciate that the Watermaster has been responsive, yet significant questions remain that are unlikely to be fully resolved before the June Court date to set FPA for WY 2024-2025.

CDFW acknowledges that there have been substantial advances in the tools and datasets available to model and monitor groundwater systems in the nearly 30 years since the Judgment was implemented and is supportive of using these resources to improve our understanding of water in the Mojave Basin; However, CDFW also believes that critical decisions on water management should be weighted towards observed real-world data over modeled outcomes.

In the Alto Subarea, CDFW understands that the proposed increase in FPA is based on a modeled scenario of holding production at 2020 levels^{1,2} and the annual import of 17,500 acre-feet of artificial recharge for 20 years. CDFW agrees that the Watermaster's modeled response to such imported water indicates potential benefits to fish and wildlife resources but believes that it is prudent to monitor the results of this action before increasing production. Such an approach would be consistent with Mr. Wagner's May 2023 declaration to the Court in which he recommended holding FPA in the Alto subarea at 50% for five years. Additionally, the Watermaster's 30th Annual Report for the current year states that:

We note that variability showing lower lows and lower highs is an indication of extractions exceeding recharge over time. Water levels in the western portion of Alto in the regional aquifer exhibit declines consistent with locally heavy pumping and limited local recharge... Continued pumping in depleted areas of the regional system may result in long-term local negative impacts such as declining yields and water quality problems. Water levels in near river wells, particularly in the south part of Alto, experienced a trend of decline for 7 years consistent with limited recharge due to drier than average conditions... Continuation of dry conditions will result in water level declines

¹ Mojave Water Agency Watermaster, 2024 PSY Update (February 24, 2024), Appendix A, Alto & Centro Subarea Water Supply Update, p. 3 and Table 2.

² Mojave Water Agency Watermaster, 2024 PSY Update (February 24, 2024), Appendix G, Upper Mojave River Basin Groundwater Model, p. 4.

(Watermaster's 30th Annual Report, pp. 27-28).

As indicated in this discussion, water levels in the Alto Subarea are still influenced by locally heavy pumping and the hydrographs for many wells do not indicate the levels of stability that would warrant increased production at this time. Further, the modeled scenario of artificial recharge in the Alto Subarea assumes that additional "wet water" is imported annually, which differs from other forms of replacement water such as unused FPA, claim program, and pre-stored water. Appendix G of the 2024 PSY Update notes the assumption that "17,500 [acre-feet] imported water was delivered at the Deep Creek (directly to the river) site and spread over a three month period from June to August" (Appendix G, p. 4). Monitoring of this approach is needed to ensure the desired results are achieved.

In the Baja Subarea, the Watermaster has set PSY equal to production based on the observation that "in some wells the decline has stopped or is reversing."³ CDFW notes that in the contemporary PSY calculation,⁴ the surface water inflow to the Baja Subarea has been reduced significantly and agrees this is consistent with observed measurements. Therefore, as with last year, CDFW agrees that based on the proposed PSY, further ramp down of FPA is not prescribed for WY 2024-2025. CDFW is concerned, however, that groundwater levels in portions of the Baja Subarea, particularly below the Waterman Fault at the CDFW Camp Cady/ Exhibit H riparian habitat areas, are now at such a low depth that the natural establishment of native riparian vegetation is not occurring. CDFW encourages the Watermaster to continue investigating why the surface water inflow to the Baja Subarea has been so dramatically reduced in the last 30 years, in addition to possible remedies to this lost inflow and storage.

Additionally, CDFW takes issue with the significant 51% reduction in water use allocated to riparian vegetation (i.e., phreatophytes) in the proposed PSY table. The original 2,000 acre-foot per year value was the result of a thorough investigation published by the U.S. Geological Survey⁵ and was later validated in 2011 by Utah State University and the U.S. Bureau of Reclamation.⁶ CDFW finds that this reduction in groundwater allocation effectively incentivizes the loss of riparian habitat resulting from

³ Mojave Water Agency Watermaster, *Draft Thirtieth Annual Report of the Mojave Basin Area Watermaster*, Water Year 2022-23 (February 28, 2024), 28.

⁴ Mojave Water Agency Watermaster, 2024 PSY Update, February 24, 2024, Appendix E, *Baja Supply Update*, Table 2 [Table 5-1 (Based on 2001-2020)].


⁵ U.S. Department of the Interior, U.S. Geological Survey, "Riparian Vegetation and Its Water Use During 1995 Along the Mojave River, Southern California," by Lines, G and Bilhorn, T, *Water-Resources Investigations Report 96-4241*. U.S. Geological Survey, (Sacramento, CA: 1996).

⁶ USU and US Bureau of Reclamation, "Evapotranspiration Water Use Analysis of Saltcedar and Other Vegetation in the Mojave River Floodplain, 2007 and 2010," *Mojave Water Agency Water Supply Management Study*, Phase 1 Report, (2011).

groundwater depletion and the lowering groundwater table that has occurred since the implementation of the physical solution.

CDFW appreciates the opportunity to communicate its concerns regarding the integration of the 2024 PSY Update into the FPA recommendations for WY 2024-2025. In summary, 1) CDFW respectfully urges the Watermaster to proceed with the importation of water proposed in the Alto Subarea while holding FPA at current levels, until such time that real-world monitoring data indicates that future changes in production are warranted; 2) CDFW agrees that based on the proposed PSY in the Baja Subarea, reducing FPA is not indicated for the coming water year, but CDFW remains concerned about the reduced inflow and cumulative loss in storage; and 3) CDFW believes that reducing the allocation of water to riparian vegetation in the Baja Subarea PSY calculation sets a poor precedent when the intent of the physical solution was to consider the water needs of public trust resources. CDFW will be attending the March 27, 2024, Board meeting when the Board will hear additional comments and vote on its FPA recommendation to the Court.

Sincerely,

DocuSigned by:

6477ACD4E0DE4DB...

Aaron Johnson
Senior Environmental Scientist
Inland Deserts Region

ec:

CDFW

Chris Hayes, Environmental Program Manager
chris.hayes@wildlife.ca.gov

Alisa Ellsworth, Environmental Program Manager
alisa.ellsworth@wildlife.ca.gov

Stephen Puccini, Attorney V
stephen.puccini@wildlife.ca.gov

Department of Justice

Marilyn H. Levin, Deputy Attorney General
marilyn.levin@doj.ca.gov

Noah Golden-Krasner, Deputy Attorney General V
noah.goldenkrasner@doj.ca.gov

ATTACHMENT D

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

EXHIBIT H

BIOLOGICAL RESOURCE MITIGATION

1 EXHIBIT H

2 BIOLOGICAL RESOURCE MITIGATION

3 1. Protection of and Description of Existing Riparian
4 Habitat. In arriving at a Physical Solution, the Parties have
5 taken into consideration the water needs of the public trust
6 resources of the Mojave Basin Area, including but not limited to,
7 those species listed in Table H-1 within each of the areas as shown
8 on Figure H-1 and the riparian habitat areas shown on Figure H-1
9 and described generally as follows:

10 a. The area which extends, south to north, in the Alto
11 Subarea, from the intersection of the north line of Section 36,
12 Township 5 North, Range 4 West with the Mojave River channel to the
13 United States Geological Survey gauging station at the Lower
14 Narrows;

15 b. The Lower Narrows to the Helendale Fault (Transition
16 Zone);

17 c. The Harvard/Eastern Baja Subarea reach of the Mojave
18 River that extends west to east, from Harvard Road to the Iron
19 Ranch/Iron Mountain area (0.5 miles east of the west line of
20 Section 20, Township 10 North, Range 4 East).

21 2. Protection Pursuant to Physical Solution. The following
22 aspects of the Physical Solution must be implemented to seek to
23 achieve the water table standards set forth in Table H-2 which were
24 proposed by DFG as being necessary to maintain and converse the
25 riparian resources in the areas shown on Figure H-1, including the
26 species listed in Table H-1:

27 a. Pursuant to Paragraph 24(o) of the Judgment, the
28 Watermaster in recommending an adjustment in Free Production

1 Allowance, shall compare the Free Production Allowance with the
2 estimated Production Safe Yield. In the event the Free Production
3 Allowance exceeds the estimated Production Safe Yield by five
4 percent or more, Watermaster shall recommend a reduction of the
5 Free Production Allowance equal to a full five percent of the
6 aggregate Subarea Base Annual Production. In considering whether
7 to increase or decrease the Free Production Allowance in a Subarea,
8 Watermaster shall, among other factors, take into consideration for
9 the areas shown on Figure H-1 the Consumptive Use of water by
10 riparian habitat, the protection of public trust resources,
11 including the species listed in Table H-1 and the riparian habitat
12 areas shown on Figure H-1, and whether an increase would be
13 detrimental to the protection of public trust resources.

14 b. If, pursuant to Paragraph 27, Watermaster buys or
15 leases Free Production Allowance in the Baja Subarea below the
16 Calico-Newberry Fault to satisfy the need for Replacement Water,
17 priority shall be given to purchases or leases that will result in
18 reducing Production in or near the area described in Subparagraph
19 1(c) of this Exhibit.

20 c. Pursuant to Paragraph 2 of Exhibit "G", Watermaster
21 shall purchase Replacement Water to maintain Groundwater levels in
22 the Transition Zone.

23 3. Additional Protection Pursuant to Trust Fund Established
24 by Watermaster Using the Proceeds of Biological Resource
25 Assessments.

26 a. Watermaster shall establish a Biological Resources
27 Trust Fund account for the benefit of the riparian habitat areas
28 shown on Figure H-1 and the species listed on Table H-1. To

1 establish and maintain the Trust Fund Watermaster shall levy
2 against each acre-foot of Production within the Basin Area, other
3 than Production by the California Department of Fish and Game
4 (DFG), a Biological Resource Assessment of fifty cents (\$0.50)
5 (1993 dollars) to be collected at the same time and in the same
6 manner as the Administrative Assessment, except that no Biological
7 Resources Assessment shall be levied whenever the Trust Fund
8 account balance exceeds \$1,000,000 (1993 dollars).

9 b. Watermaster shall make funds held in the Biological
10 Resources Trust Fund available to DFG only in the event that
11 Groundwater levels are not maintained as set forth in Table H-2.
12 Watermaster shall take action to acknowledge any proposed
13 expenditure from the Biological Resources Trust Fund by DFG. Such
14 Watermaster action shall be subject to the review procedures set
15 forth in Paragraph 36 of the Judgment, provided that any motion
16 made pursuant thereto and any Court disapproval of such Watermaster
17 action and proposed DFG expenditure may be based only: 1) on the
18 ground that the Groundwater levels set forth in Table H-2 are being
19 maintained; and/or 2) the ground that the proposed expenditure is
20 not for any of the purposes set forth in Subparagraphs 3.b.(i),
21 (ii), or (iii) below in this Exhibit. The Biological Resources
22 Trust Fund may be used only for the following purposes and only in
23 the three areas identified on Figure H-1:

24 i. not to exceed \$100,000 for the preparation by DFG of
25 a DFG habitat water supply management plan, which plan shall
26 include the water needs of the species listed in Table H-1 and
27 the riparian habitat areas shown on Figure H-1.
28

1 ii. the purchase or lease by DFG of Supplemental Water
2 or the lease or purchase of DFG of Base Annual Production
3 Rights to be used to meet riparian habitat water needs of the
4 species listed in Table H-1 and the riparian habitat areas
5 shown on Figure H-1.

6 iii. the construction, repair and replacement of wells or
7 other facilities identified in the plan prepared pursuant to
8 Subparagraph (i), above, and/or any other measures necessary
9 to implement the plan.

10 DFG shall not prepare or make any expenditure from the trust fund
11 for the payment of administrative overhead or staff of DFG.

12 4. DFG agrees that absent substantial changed circumstances,
13 DFG shall not seek to modify the provisions of this Judgment in any
14 way to add to or change the above-stated measures to protect the
15 referenced species or habitat. Nothing stated in this Judgment or
16 in this Exhibit "H" is intended nor shall be deemed to relieve any
17 Party hereto from any obligation or obligations not specifically
18 referenced in this Exhibit H. Nothing in this Judgment or in this
19 Exhibit H is intended or shall be construed to be a waiver by the
20 State or any of its departments or agencies, including DFG, of its
21 rights and obligations under the common law, the public trust
22 doctrine, the constitution, statutes and regulations to preserve,
23 protect or enhance the natural resources of the State including
24 rare, threatened or endangered species or species of concern.

TABLE H-1
LIST OF SPECIES
(CONT'D)

SPECIES	ALTO			CENTRO		BAJA		
	Forks Dam to Upper Narrows	Upper Narrows to Lower Narrows	Lower Narrows to Helendale	Helendale to Hodge	Hodge to Barstow	Barstow to Harvard Road	Harvard Road to Mannix Wash	Afton Canyon
Yellow Warbler	9							
Yellow-breasted Chat	8	8			8	8		
Summer Tanager	8	8						8
Pale Big Eared Bat	8							
Mohave Ground Squirrel	4, 6		4, 6	4, 6				
Mohave Vole			6	6				
Nelson's Bighorn Sheep					10	10		10
TOTAL NUMBER OF SPECIES = 30								
TOTAL NUMBER OF SPECIES IN EACH AREA:	25	11	7	8	7	8	3	5

- 1 = Federally Endangered
- 2 = Federally Threatened
- 3 = State Endangered
- 4 = State Threatened
- 5 = Federal Category: 1
- 6 = Federal Category: 2
- 7 = Federal Category: 3b
- 8 = State: Special Concern
- 9 = State: Sensitive
- 10 = State: Fully Protected

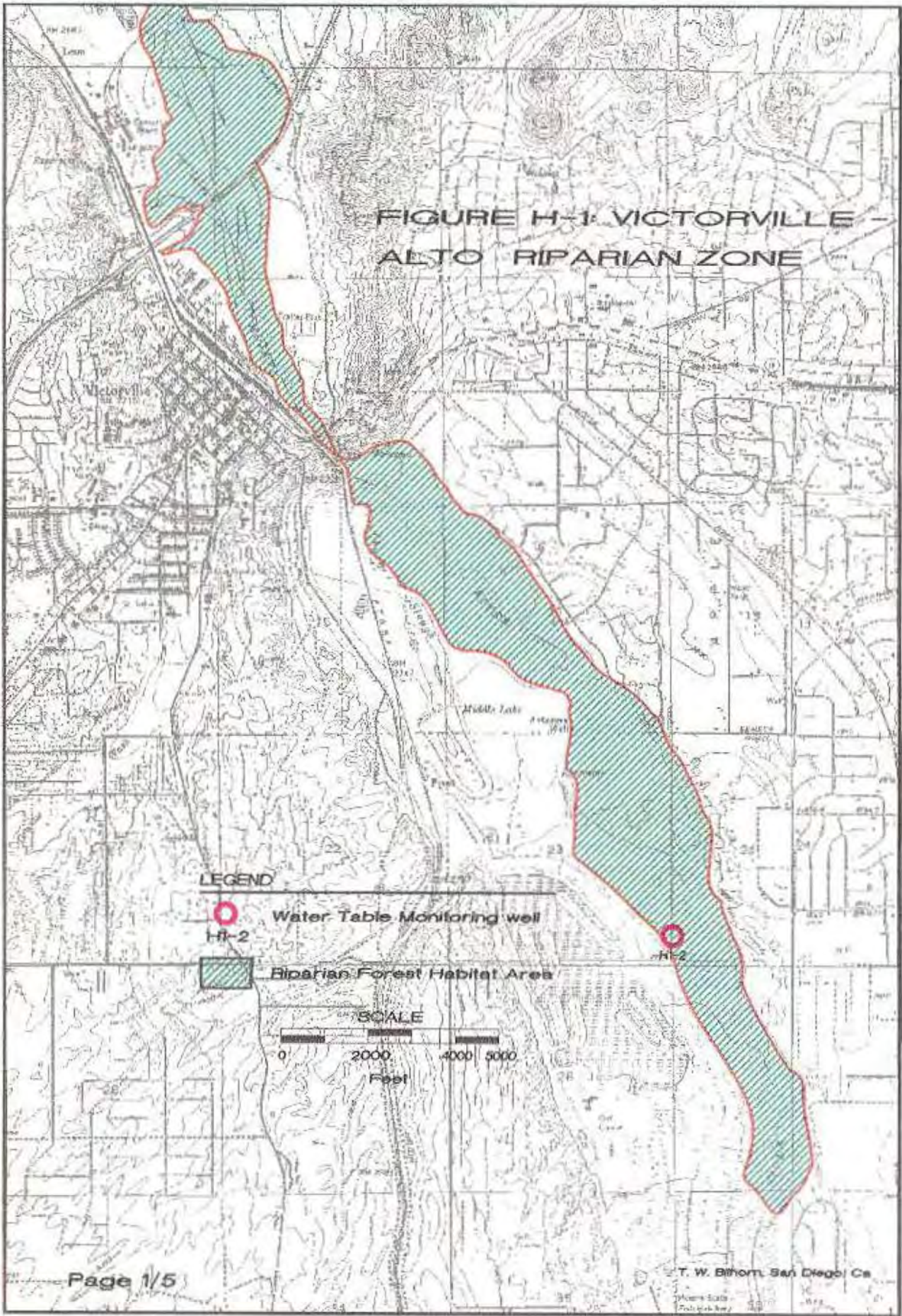
TABLE H-2

**RIPARIAN HABITAT MONITORING WELL
WATER LEVEL CRITERIA**

ZONE	WELL NUMBER	MAXIMUM DEPTH BELOW GROUND
Victorville/Alto	H1-1	Seven (7) Feet
Victorville/Alto	H1-2	Seven (7) Feet
Lower Narrows/Transition	H2-1	Ten (10) Feet
Harvard/Eastern Baja Riparian Forest Habitat	H3-1	Seven (7) Feet
Harvard/Eastern Baja Surface Water Habitat	H3-2	Plus One (1) Foot (1705 Ft msl)*

- * Surface Water Habitat water surface elevation of 1705 ft. msl is approximate pending ground elevation survey.

FIGURE H-1: VICTORVILLE - ALTO RIPARIAN ZONE



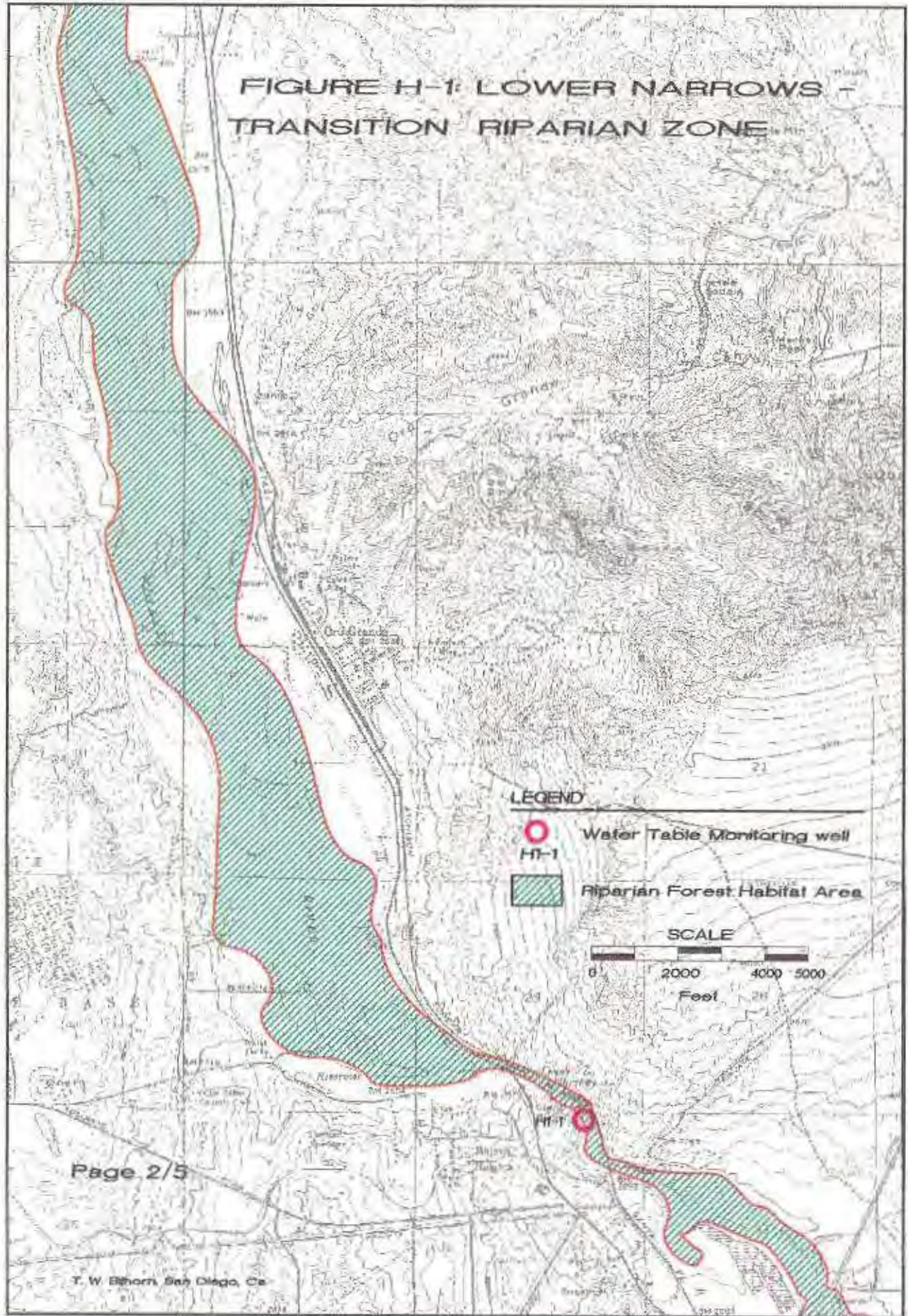
LEGEND

-  Water Table Monitoring well HI-2
-  Riparian Forest Habitat Area

SCALE



**FIGURE H-1: LOWER NARROWS -
TRANSITION RIPARIAN ZONE**



LEGEND

-  Water Table Monitoring well
- H-1**
-  Riparian Forest Habitat Area

SCALE

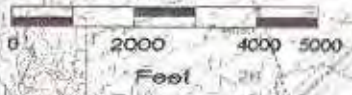
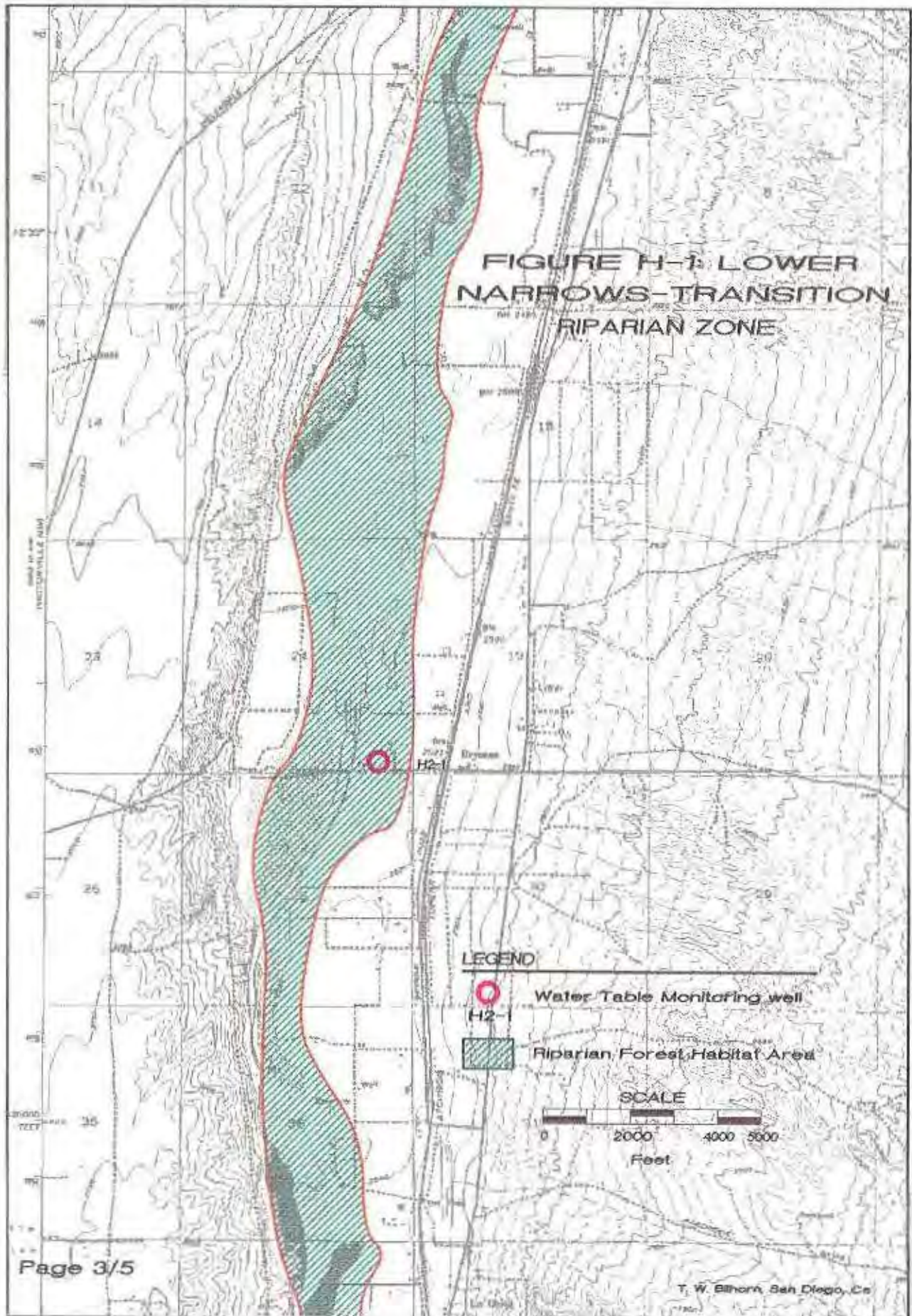


FIGURE H-1: LOWER NARROWS-TRANSITION RIPARIAN ZONE



**FIGURE H1- TRANSITION
RIPARIAN ZONE**

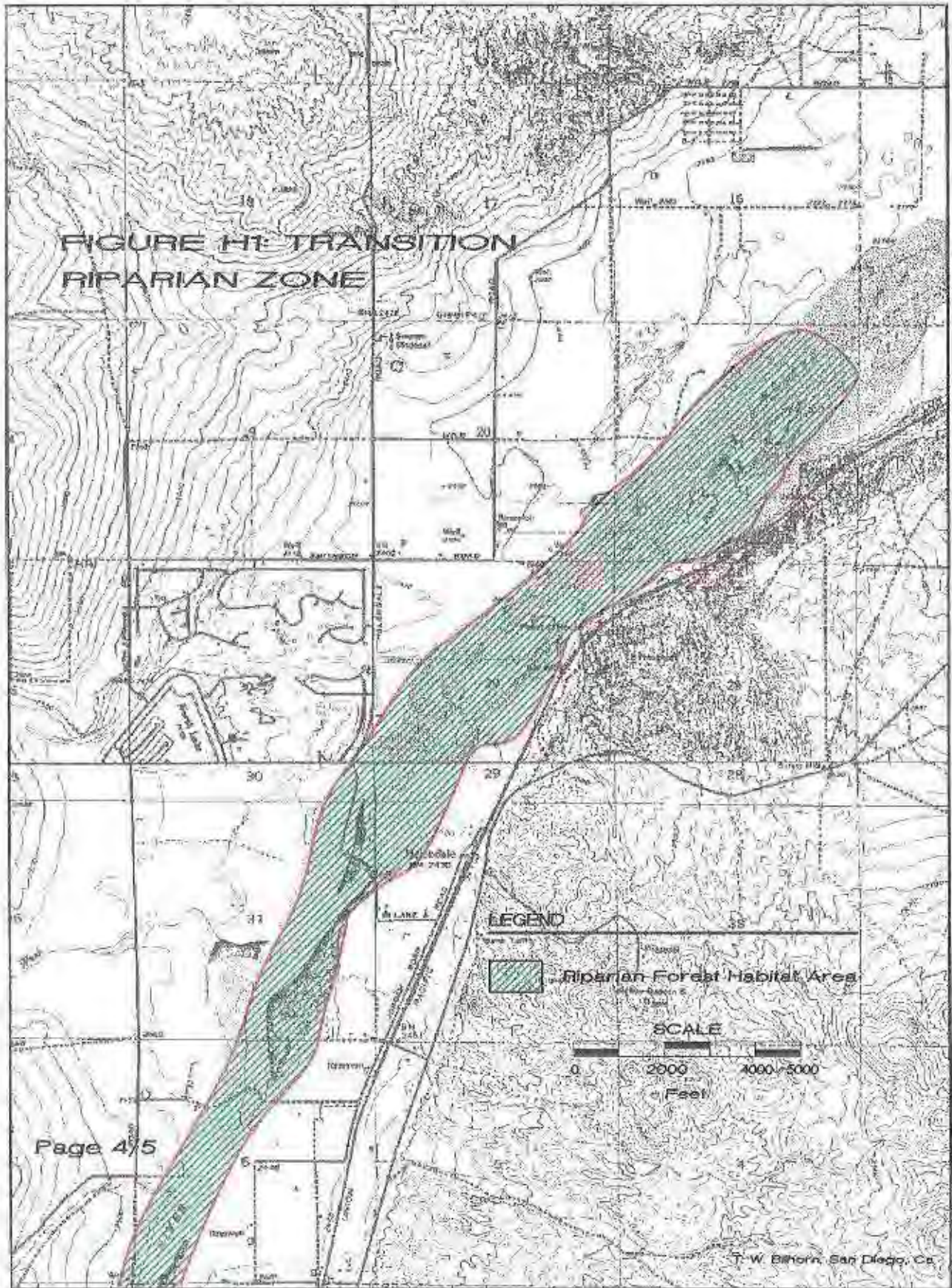
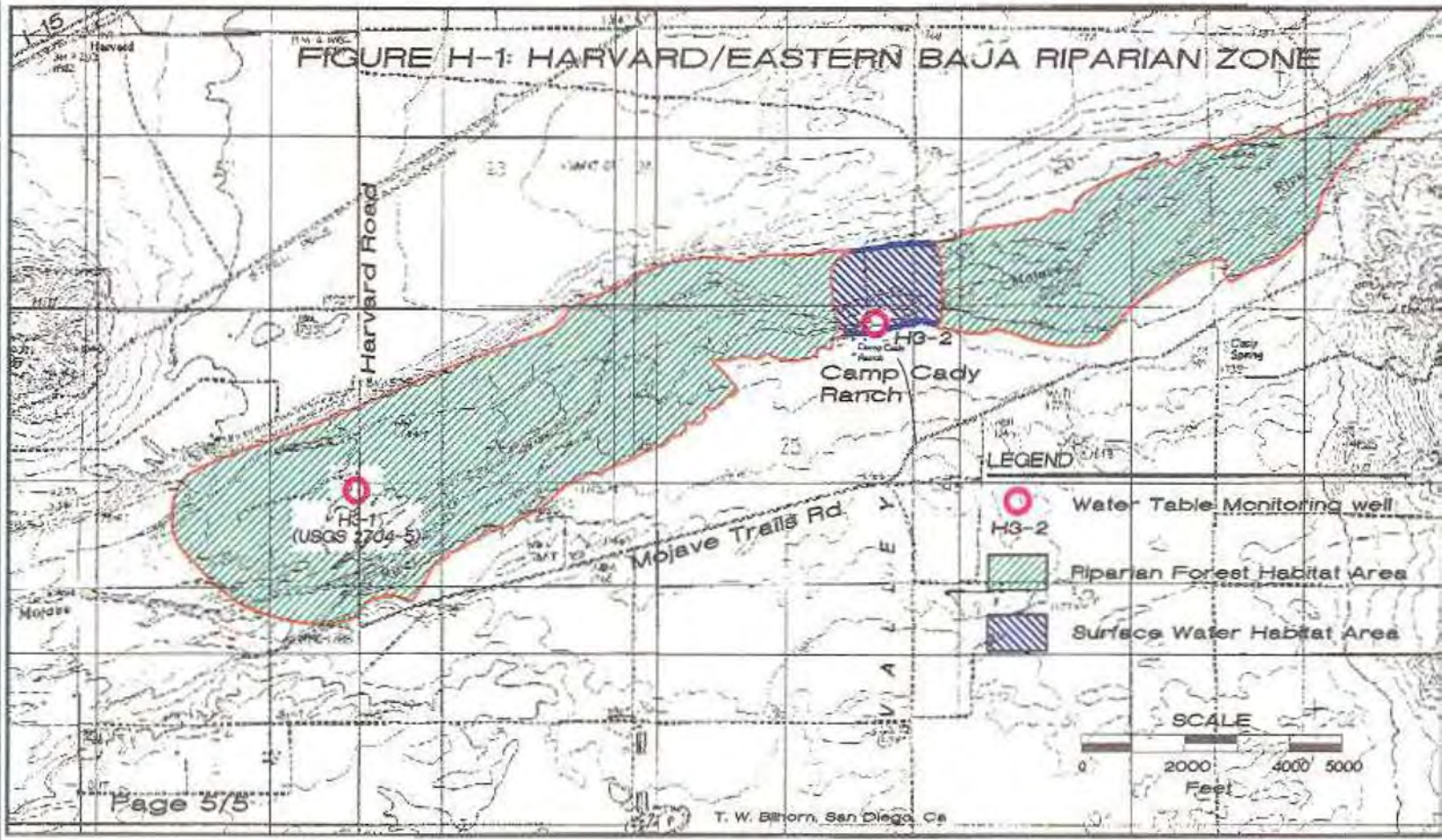


FIGURE H-1: HARVARD/EASTERN BAJA RIPARIAN ZONE



ATTACHMENT E

TABLE C-1
Mojave Basin Area Adjudication
Subarea Hydrological Inventory Based On
Long-Term Average Natural Water Supply and Outflow
and Current Year Imports and Consumptive Use
(All Amounts in Acre-Feet)

WATER SUPPLY	Este	Oeste	Alto	Centro	Baja	Basin Totals
Surface Water Inflow						
Gaged	0	0	65,000	0	0	65,000 ¹
Ungaged	1,700	1,500	3,000	37,300 ¹	14,300 ²	6,500 ³
Subsurface Inflow	0	0	1,000	2,000	1,200	0 ⁴
Deep Percolation of Precipitation	0	0	3,500	0	100	3,600
Imports						
Lake Arrowhead CSD	0	0	1,500	0	0	1,500
Big Bear ARWWA	2,000	0	0	0	0	2,000
TOTAL	3,700	1,500	74,000	39,300	15,600	78,600
CONSUMPTIVE USE AND OUTFLOW						
Surface Water Outflow						
Gaged	0	0	0	0	8,200	8,200
Ungaged	0	0	37,300 ¹	14,000 ²	0	0
Subsurface Outflow	300	800	2,000	1,200	0	0
Consumptive Use						
Agriculture	6,800	2,900	16,300	20,700	30,200	76,500
Urban	1,900	1,200	36,300	9,500	9,700	58,600 ⁵
Phreatophytes	0	0	5,100	900	1,500	7,500
Exports	0	0	0	0	0	0
TOTAL	8,900	4,900	97,000	45,900	49,600	150,800
Surplus / (Deficit)	(5,200)	(3,400)	(23,000)	(6,600)	(34,000)	(72,200)
Total Estimated Production (Current Year) ⁷	15,700	7,600	98,900	46,500	54,300	223,000
PRODUCTION SAFE YIELD (Current Year)⁷	10,500	4,200	75,900	39,900	20,300	150,800

¹ Estimated from reported flows at USGS gaging station, Mojave River at Victorville Narrows.
² Includes 14,000 acre-feet of Mojave River surface flow across the Waterman Fault estimated from reported flows at USGS gaging station, Mojave River at Barstow, and 300 acre-feet of local surface inflow from Kane Wash.
³ Represents the sum of Este (1,700 af), Oeste (1,500 af), Alto (3,000 af) and Baja (300 af from Kane Wash).
⁴ Inter subarea subsurface flows do not accrue to the total basin water supply.
⁵ Estimated from reported flows at USGS gaging station, Mojave River at Barstow.
⁶ Estimated by Bookman-Edmonston.
⁷ For purposes of this Table, the current year is 1990.

DECLARATION OF SERVICE BY E-MAIL AND OVERNIGHT COURIER

Case Name: **City of Barstow v. City of Adelanto, et al.**

Case No.: **CIV208568 (Lead)**

I declare:

I am employed in the Office of the Attorney General, which is the office of a member of the California State Bar, at which member's direction this service is made. I am 18 years of age or older and not a party to this matter; my business address is: 300 South Spring Street, Suite 1702, Los Angeles, CA 90013-1230. I am familiar with the business practice at the Office of the Attorney General for collection and processing of correspondence for overnight mail with the **Federal Express** courier service. In accordance with that practice, correspondence placed in the internal mail collection system at the Office of the Attorney General is deposited with the overnight courier that same day in the ordinary course of business.

On May 21, 2024, I served the **DECLARATION OF AARON JOHNSON IN SUPPORT OF THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE'S RESPONSE TO WATERMASTER'S MOTION TO ADJUST FREE PRODUCTION ALLOWANCE FOR THE 2024-2025 WATER YEAR** by transmitting a true copy via electronic mail. In addition, I placed a true copy thereof enclosed in a sealed envelope, in the internal mail system of the Office of the Attorney General, for overnight delivery, addressed as follows:

William J. Brunick, Esq.
Leland P. McElhaney, Esq.
Brunick, McElhaney & Kennedy PLC
1839 Commercenter West
San Bernardino, CA 92423-3130
E-Mail: bbrunick@bmklawplc.com
E-Mail: lmcclhaney@bmklawplc.com
Attorneys for Defendant/Cross-Complainant Mojave Water Agency

Valerie Wiegenstein
Jeffrey D. Ruesch
Watermaster Services Managers
Mojave Water Agency
13846 Conference Center Drive
Apple Valley, CA 92307-4377
E-Mail: vwiegenstein@mojavewater.org
E-Mail: jruesch@mojavewater.org

I declare under penalty of perjury under the laws of the State of California and the United States of America, the foregoing is true and correct and that this declaration was executed on May 21, 2024, at Los Angeles, California.

Beatriz Davalos

Declarant



Signature

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.

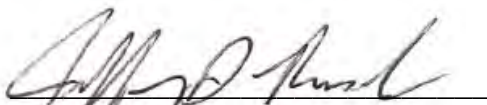
On May 22, 2024, the document(s) described below were served pursuant to the Mojave Basin Area Watermaster's Rules and Regulations paragraph 8.B.2 which provides for service by electronic mail upon election by the Party or paragraph 10.D, which provides that Watermaster shall mail a postcard describing 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:

DECLARATION OF AARON JOHNSON IN SUPPORT OF THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE'S RESPONSE TO WATERMASTER'S MOTION TO ADJUST FREE PRODUCTION ALLOWANCE FOR THE 2024-2025 WATER YEAR

 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 May 22, 2024 at Apple Valley, California.



Jeffrey D. Ruesch

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Roberto Munoz
35250 Yermo, LLC
11273 Palms Blvd., Ste. D.
Los Angeles, CA 90066-2122

Attn: John McCallum
Abshire, David V.
P. O. Box # 2059
Lucerne Valley, CA 92356-2059

Attn: Dwayne Oros
Adelanto, City Of
11600 Air Expressway
Adelanto, CA 92301-1914

(adesdevon@gmail.com)
Ades, John and Devon (via email)

Attn: Pedro Dumaua
(pdumaua@ducommun.com)
Aerochem, Inc. (via email)
4001 El Mirage Rd.
Adelanto, CA 92301-9489

Attn: Lori Clifton (lclifton@robar.com)
Agcon, Inc. (via email)
17671 Bear Valley Road
Hesperia, CA 92345-4902

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

Attn: Simon Ahn (ssahn58@gmail.com)
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@ezzlif.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: Matthew Schulenberg
Apple Valley Unified School District
12555 Navajo Road
Apple Valley, CA 92308-7256

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

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

Attn: Daniel Shaw (barhwater@gmail.com)
Bar H Mutual Water Company (via email)
P. O. Box 844
Lucerne Valley, CA 92356-0844

Barber, James B.
43774 Cottonwood Road
Newberry Springs, CA 92365

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

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Barbara Davisson
Bass Trust, Newton T.
14924 Chamber Lane
Apple Valley, CA 92307-4912

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

Attn: Mike Beinschroth
(Beinschroth@gmail.com)
Beinschroth Family Trust (via email)
18794 Sentenac Road
Apple Valley, CA 92307-5342

Beinschroth, Andy Eric
6719 Deep Creek Road
Apple Valley, CA 92308-8711

Attn: Chuck Bell (Chuckb193@outlook.com;
Chuckb193@outlook.com)
Bell, Charles H. Trust dated March 7, 2014
(via email)
P. O. Box 193
Lucerne Valley, CA 92356-0193

Best, Byron L.
21461 Camino Trebol
Lake Forest, CA 92630-2011

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

Attn: Deborah Stephenson
(stephenson@dmsnaturalresources.com)
BNSF Railway Company (via email)
602 S. Ferguson Avenue, Suite 2
Bozeman, MT 59718-6483

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

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

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

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

Brown, Jennifer
10001 Choiceana Ave.
Hesperia, CA 92345

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

(irim@aol.com)
Bryant, Ian (via email)
15434 Sequoia Avenue - Office
Hesperia, CA 92345-1667

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

Attn: Noah Furie
Budget Finance Company
PO BOX 641339
Los Angeles, CA 90064-6339

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

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

Attn: Robert Muratalla
(Robert.Muratalla@associa.us)
Calico Lakes Homeowners Association (via
email)
11860 Pierce Street, Suite 100
Riverside, CA 92505-5178

Attn: William DeCoursey
(michael.lemke@dot.ca.gov;
William.Decoursey@dot.ca.gov)
California Department Of Transportation (via
email)
175 W. Cluster
San Bernardino, CA 92408-1310

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

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

Attn: Catalina Fernandez-Moores
(cfernandez@calportland.com)
CalPortland Company - Oro Grande Plant (via
email)
P. O. Box 146
Oro Grande, CA 92368-0146

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

Attn: Myron Campbell II
Campbell, M. A. and Dianne
19327 Cliveden Ave
Carson, CA 90746-2716

Carlton, Susan
445 Via Colusa
Torrance, CA 90505-

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Denise Parra
Casa Colina Foundation
P.O. Box 1760
Lucerne Valley, CA 92356

Attn: Danielle Stewart
(danielle.stewart@wildlife.ca.gov;
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: Jared Beyeler
CDFW - Mojave Narrows Regional Park
222 W. Hospitality Lane, 2nd Floor
San Bernardino, CA 92415-0023

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

Attn: Alejandra Silva
(alejandrav.silva@cemex.com)
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
Adelanto, CA 92301-2779

Attn: Carl Pugh (talk2betty@aol.com;
cpugh3@aol.com)
Cheyenne Lake, Inc. (via email)
44658 Valley Center Rd.
Newberry Springs, CA 92365-

Choi, Yong Il and Joung Ae
34424 Mountain View Road
Hinkley, CA 92347-9412

(joan.chong7@gmail.com;
joancksp@hotmail.com)
Chong, Joan (via email)
10392 Shady Ridge Drive
Santa Ana, CA 92705-7509

Christison, Joel
P. O. Box 2635
Big River, CA 92242-2635

Attn: Hwa-Yong Chung
Chung, et al.
11446 Midway Ave.
Lucerne Valley, CA 92356-8792

Clark, Arthur
P. O. Box 4513
Blue Jay, CA 92317-4513

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

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.
8743 Vivero St
Rancho Cucamonga, CA 91730-

Attn: Gwen Bartels
Cross, Francis and Beverly
156 W 100 N
Jerome, ID 83338-5256

Cross, Sharon I.
P. O. Box 922
Lucerne Valley, CA 92356

Attn: Jay Hooper (jayho123@gmail.com)
Crown Cambria, LLC (via email)
9860 Gidley St.
El Monte, CA 91731-1110

Attn: Alessia Morris
Crystal Lakes Property Owners Association
P. O. Box 351
Yermo, CA 92398-0351

(dacostadean@gmail.com)
DaCosta, Dean Edward (via email)
32307 Foothill Road
Lucerne Valley, CA 92356-8526

Attn: Shanna Mitchell (daggettcsd@aol.com;
daggettcsd@outlook.com;
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: James Kelly
(James.Kelly@clearwayenergy.com)
Daggett Solar Power 3 LLC (via email)
5780 Fleet Street, Suite 130
Carlsbad, CA 92008-4715

(ron@dadcopowerandlights.com)
Dahlquist, George R. (via email)
8535 Vine Valley Drive
Sun Valley, CA 91352-

Darr, James S.
40716 Highway 395
Boron, CA 93516

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Alan L. De Jong
De Jong Family Trust
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
(pennyzaritsky2000@yahoo.com)
Desert Girlz LLC (via email)
P. O. Box 709
Lucerne Valley, CA 92356-0709

Attn: Denise Courtney
Desert Springs Mutual Water Company
P. O. Box 396
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: Jeffery Lidman
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.
P. O. Box 66
Oro Grande, CA 92368-0066

Attn: Stephanie L. Evert
(severt2166@aol.com)
Evert Family Trust (via email)
19201 Parker Circle
Villa Park, CA 92861-1302

Attn: David Dittenmore
(d2dittenmore@bop.gov; rslayman@bop.gov)
Federal Bureau of Prisons, Victorville (via email)
P. O. Box 5400
Adelanto, CA 92301-5400

Fejfar, Monica Kay
34080 Ord Street
Newberry Springs, CA 92365-9791

(afc30@yahoo.com)
Fernandez, Arturo (via email)
28 Calle Fortuna
Rancho Santa Margarita, CA 92688-2627

Ferro, Dennis and Norma
1311 1st Ave. N
Jacksonville Beach, FL 32250-3512

(ropingmom3@yahoo.com)
Finch, Jenifer (via email)
9797 Lewis Lane
Apple Valley, CA 92308-8357

Attn: Alex and Jerrica Liu
(alexliu1950@gmail.com;
alexroseanneliu@yahoo.com)
First CPA LLC (via email)
46669 Valley Center Rd
Newberry Springs, CA 92365-

Attn: Mike Fischer
(carlsfischer@hotmail.com;
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)
113 S La Brea Ave., 3rd Floor
Los Angeles, CA 90036-2998

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, Eugene
2006 Old Highway 395
Fallbrook, CA 92028

Gabrych, Eugene
2006 Old Highway 395
Fallbrook, CA 92028-8816

Attn: Mitch Hammack
Gabrych, Eugene
34650 Minneola Rd
Newberry Springs, CA 92365-

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

Mojave Basin Area Watermaster Service List as of May 22, 2024

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.
358 Chorus
Irvine, CA 92618-1414

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

Attn: Jeffrey Edwards
(jedwards@fbremediation.com)
GenOn California South, LP (via email)
P. O. Box 337
Daggett, CA 92327-0337

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

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
P. O. Box 29
Apple Valley, CA 92307-0001

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

Attn: Nick Grill (terawatt@juno.com)
Grill, Nicholas P. and Millie D. (via email)
35350 Mountain View Rd
Hinkley, CA 92347-9613

Gubler, Hans
P. O. Box 3100
Landers, CA 92285

Attn: Tamara J Skoglund
(TamaraMcKenzie@aol.com)
Gulbranson, Merlin (via email)
511 Minnesota Ave W
Gilbert, MN 55741-

Gutierrez, Jose and Gloria
24116 Santa Fe
Hinkley, CA 92347

Attn: Bryan C. Haas and Mary H. Hinkle
(resrve4you@aol.com)
Haas, Bryan C. and Hinkle, Mary H. (via email)
14730 Tigertail Road
Apple Valley, CA 92307-5249

(hackbarthoffice@gmail.com)
Hackbarth, Edward E. (via email)
12221 Poplar Street, Unit #3
Hesperia, CA, CA 92344-9287

Attn: Doug and Cheryl Hamilton
Hamilton Family Trust
19945 Round Up Way
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)
P. O. Box 1115
Corona, CA 92878-1115

Attn: Mary Jane Hareson
Hareson, Nicholas and Mary
1737 Anza Avenue
Vista, CA 92084-3236

Attn: Kenny Harmsen (harmsencow@aol.com)
Harmsen Family Trust (via email)
23920 Community Blvd.
Hinkley, CA 92347-9721

Harter, Joe and Sue
10902 Swan Lake Road
Klamath Falls, OR 97603-9676

(harveyl.92356@gmail.com)
Harvey, Lisa M. (via email)
P. O. Box 1187
Lucerne Valley, CA 92356-

Haskins, James J.
11352 Hesperia Road, #2
Hesperia, CA 92345-2165

Hass, Pauline L.
P. O. Box 273
Newberry Springs, CA 92365-

Attn: Craig Carlson (kcox@helendalecsd.org;
ccarlson@helendalecsd.org)
Helendale Community Services District (via email)
P. O. Box 359
Helendale, CA 92342-0359

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

Mojave Basin Area Watermaster Service List as of May 22, 2024

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
(janieMartines@gmail.com)
Hesperia Venture I, LLC (via email)
10 Western Road
Wheatland, WY 82201-8936

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

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

Attn: Carabeth Carter ()
Hettinga Revocable Trust (via email)
P. O. Box 455
Ehrenberg, AZ 84334-0455

Attn: Lisset Sardeson
Hi Desert Mutual Water Company
23667 Gazana Street
Barstow, CA 92311

(leehiett@hotmail.com)
Hiett, Harry L. (via email)
P. O. Box 272
Daggett, CA 92327-0272

Attn: Robert W. Bowcock
High Desert Associates, Inc.
405 North Indian Hill Blvd.
Claremont, CA 91711-4614

Attn: Lori Clifton (lclifton@robar.com)
Hi-Grade Materials Company (via email)
17671 Bear Valley Road
Hesperia, CA 92345-4902

Attn: Lori Clifton (lclifton@robar.com)
Hi-Grade Materials Company (via email)
17671 Bear Valley Rd
Hesperia, CA 92345-4902

Attn: Frank Hilarides
Hilarides 1998 Revocable Family Trust
37404 Harvard Road
Newberry Springs, CA 92365

Attn: Katherine Hill (Khill9@comcast.net)
Hill Family Trust and Hill's Ranch, Inc. (via email)
84 Dewey Street
Ashland, OR 97520-

Attn: Anne Roark
Hitchin Lucerne, Inc.
P. O. Box 749
Lucerne Valley, CA 92356-0749

Ho, Ting-Seng and Ah-Git
P.O. Box 20001
Bakersfield, CA 93390-0001

Attn: Joan Rohrer
Hollister, Robert H. and Ruth M.
22832 Buendia
Mission Viejo, CA 92691-

Attn: Jeffrey R Holway and Patricia Gage
(patricia.gage@yahoo.com)
Holway Jeffrey R and Patricia Gage (via email)
1401 Wewatta St. #1105
Denver, CO 80202-1348

Holway, Jeffrey R
1401 Wewatta St. #1105
Denver, CO 80202-1348

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

Attn: Paul Hong
Hong, Paul B. and May
P. O. Box #1432
Covina, CA 91722-0432

Attn: Sandra D. Hood
Hood Family Trust
2142 W Paseo Del Mar
San Pedro, CA 90732-4557

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

(dell2342008@gmail.com)
Hu, Minsheng (via email)
33979 Fremont Road
Newberry Springs, CA 92365-9136

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

Attn: Paul Johnson
Huerta, Hector
25684 Community Blvd
Barstow, CA 92311-

(hconnie630@gmail.com)
Hunt, Connie (via email)
39392 Burnside Loop
Astoria, OR 97103-8248

Attn: Ralph Hunt
Hunt, Ralph M. and Lillian F.
P. O. Box 603
Yermo, CA 92398-0603

Attn: Daniel and Karen Gray
(calivolunteer@verizon.net)
Hyatt, James and Brenda (via email)
31726 Fremont Road
Newberry Springs, CA 92365

(econorx@yahoo.com)
Im, Nicholas Nak-Kyun (via email)
23329 Almarosa Ave.
Torrance, CA 90505-3121

Mojave Basin Area Watermaster Service List as of May 22, 2024

Irvin, Bertrand W.
3224 West 111th Street
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
(audrey.goller@newportpacific.com)
Jamboree Housing Corporation (via email)
15940 Stoddard Wells Rd - Office
Victorville, CA 92395-2800

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

Johnson, Carlean
8626 Deep Creek Road
Apple Valley, CA 92308

Attn: Paul Johnson
(johnsonfarming@gmail.com)
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

Jones, Joette
81352 Fuchsia Ave.
Indio, CA 92201-5329

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: Lee Logsdon
Juniper Riviera County Water District
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
Newberry Springs, CA 92365

Attn: Peggy Shaughnessy
Kemper Campbell Ranch
10 Kemper Campbell Ranch Road - Office
Victorville, CA 92395-3357

Kim, Jin S. and Hyun H.
6205 E Garnet Circle
Anaheim, CA 92807-4857

Attn: Alan and Annette De Jong
Kim, Joon Ho and Mal Boon Revocable Trust
46561 Fairview Road
Newberry Springs, CA 92365-9230

(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)
P. O. Box 700
Lake Arrowhead, CA 92352-0700

Attn: Claire Cabrey
(HandleWithClaire@aol.com;
mjaynes@mac.com)
Lake Jodie Property Owners Association (via
email)
8581 Santa Monica Blvd., #18
West Hollywood, CA 90069-4120

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

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: c/o J.C. UPMC, Inc. Lori Rodgers
(ljm9252@aol.com;
timrohmbuilding@gmail.com)
Lake Wainani Owners Association (via email)
2812 Walnut Avenue, Suite A
Tustin, CA 92780-7053

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

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

Attn: Vanessa Laosy
Lavanh, et al.
18203 Yucca St.
Hesperia, CA 92345-

Attn: Robert Lawrence Jr.
Lawrence, William W.
P. O. Box 98
Newberry Springs, CA 92365

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

Attn: Anna K. Lee (aklee219@gmail.com)
Lee, Anna K. and Eshban K. (via email)
10979 Satsuma St
Loma Linda, CA 92354-6113

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

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

Lee, Vin Jang T.
42727 Holcomb Trl
Newberry Springs, CA 92365

Attn: Virginia Janovsky
(virginiajanovsky@yahoo.com)
Lem, Hoy (via email)
17241 Bullock St.
Encino, CA 91316-1473

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

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

Attn: Billy Liang
Liang, Yuan - I and Tzu - Mei Chen
4192 Biscayne St
Chino, CA 91710-3196

Attn: Eric Larsen
(eric.larsen@libertyutilities.com;
tony.pena@libertyutilities.com)
Liberty Utilities (Apple Valley Ranchos
Water) Corp. (via email)
P. O. Box 7005
Apple Valley, CA 92307

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

Attn: Manshan Gan
Lo, et al.
5535 N Muscatel Ave
San Gabriel, CA 91776-1724

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

Attn: Patricia Miranda
Lopez, Baltazar
12318 Post Office Rd
Lucerne Valley, CA 92356-

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

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

Attn: Gwen L. Bedics
Lucerne Valley Mutual Water Company
P. O. Box 1311
Lucerne Valley, CA 92356

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

Attn: Marian Walent
(LVVMC677@gmail.com)
Lucerne Vista Mutual Water Company (via
email)
P. O. Box 677
Lucerne Valley, CA 92356-0677

Attn: Eugene R. & Vickie R. Bird
M Bird Construction
1613 State Street, Ste. 10
Barstow, CA 92311-4162

Attn: Maria Martinez
M.B. Landscaping and Nursery, Inc.
6831 Lime Avenue
Long Beach, CA 90805-1423

Attn: Robert Saidi
Mahjoubi, Afsar S.
46622 Fairview Road
Newberry Springs, CA 92365

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Jimmy Berry
Manning, Sharon S.
19332 Balan Road
Rowland Heights, CA 91748-4017

Attn: Allen Marcroft
Marcroft, James A. and Joan
P. O. Box 519
Newberry Springs, CA 92365

Attn: James M. Hansen, Jr. (gm@mrcwd.org;
gmmrcwd@gmail.com)
Mariana Rancho County Water District (via
email)
9600 Manzanita Street
Apple Valley, CA 92308-8605

Marshall, Charles
32455 Lakeview Road
Newberry Springs, CA 92365-9482

Martin, Michael D. and Arlene D.
32942 Paseo Mira Flores
San Juan Capistrano, CA 92675

Attn: Rod Sexton
McCullum, Charles L.
15074 Spruce St
Hesperia, CA 92345-2950

McKinney, Paula
144 East 72nd
Tacoma, WA 98404-1060

Attn: Olivia L. Mead
Mead Family Trust
31314 Clay River Road
Barstow, CA 92311-2057

Attn: David I. Milbrat
Milbrat, Irving H.
P. O. Box 487
Newberry Springs, CA 92365-0487

Attn: Donna Miller
Miller Living Trust
6124 Parsonage Circle
Milton, FL 32570-8930

Attn: Freddy Garmo (freddy@garmolaw.com)
Minn15 LLC (via email)
5464 Grossmont Center Drive, #300
La Mesa, CA 91942-3035

Attn: David Riddle
(driddle@mitsubishicement.com)
Mitsubishi Cement Corporation (via email)
5808 State Highway 18
Lucerne Valley, CA 92356-8179

Attn: Philip Mizrahie
Mizrahie, et al.
4105 W. Jefferson Blvd.
Los Angeles, CA 90048-

Attn: Thomas A. Hrubik (tahgolf@aol.com)
MLH, LLC (via email)
P. O. Box 2611
Apple Valley, CA 92307-0049

Attn: Sarah Bliss
Mojave Desert Land Trust
60124 29 Palms Highway
Joshua Tree, CA 92252-4130

Attn: Mahnaz Ghamati
(mahnaz.ghamati@atlantica.com)
Mojave Solar, LLC (via email)
42134 Harper Lake Road
Hinkley, CA 92347-9305

Attn: Doug Kerns
(tmccarthy@mojavewater.org)
Mojave Water Agency (via email)
13846 Conference Center Drive
Apple Valley, CA 92307-4377

Attn: Manoucher Sarbaz
Monaco Investment Company
9903 Santa Monica Blvd., PMB #541
Beverly Hills, CA 90212-1671

Attn: Ken Elliot (Billie@ElliotPlace.com)
Morris Trust, Julia V. (via email)
7649 Cypress Dr.
Lanexa, VA 23089-9320

Moss, Lawrence W. and Helen J.
38338 Old Woman Springs Road Spc# 56
Lucerne Valley, CA 92356-8116

Attn: Bradford Ray Most
Most Family Trust
39 Sundance Circle
Durango, CO 81303-8131

Attn: Dennis Hills
Mulligan, Robert and Inez
35575 Jakobi Street
Saint Helens, OR 97051-1194

Murphy, Jean
46126 Old National Trails Highway
Newberry Springs, CA 92365-9025

(z.music5909@gmail.com;
zajomusic@gmail.com)
Music, Zajo (via email)
43830 Cottonwood Rd
Newberry Springs, CA 92365-8510

Attn: James Hansen
(gm@marianaranchoswd.org)
Navajo Mutual Water Company (via email)
21724 Hercules St.
Apple Valley, CA 92308-8490

Attn: Billy Liang (flossdaily@hotmail.com;
asaliking@yahoo.com)
New Springs Limited Partnership (via email)
4192 Biscayne St.
Chino, CA 91710-3196

Attn: Jodi Howard
Newberry Community Services District
P. O. Box 220
Newberry Springs, CA 92365-0220

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
Lucerne Valley, CA 92356-8261

Attn: Kenton Eatherton
(keatherton@verizon.net)
NSSLC, Inc. (via email)
9876 Moon River Circle
Fountain Valley, CA 92708-7312

Mojave Basin Area Watermaster Service List as of May 22, 2024

Nuñez, Luis Segundo
9154 Golden Seal Court
Hesperia, CA 92345-0197

Attn: Pearl or Gail Nunn
Nunn Family Trust
P. O. Box 545
Apple Valley, CA 92307-0010

Attn: Jeff Gaastra (jeffgaastra@gmail.com;
andy@seesmachine.com;
bbswift4044@cox.net)
O. F. D. L., Inc. (via email)
32935 Dune Road, #10
Newberry Springs, CA 92365-9175

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

Attn: Kody Tompkins
(ktompkins@barstowca.org)
Odessa Water District (via email)
220 E. Mountain View Street, Suite A
Barstow, CA 92311-2888

Attn: Dorothy Ohai
Ohai, Reynolds and Dorothy
13450 Monte Vista
Chino, CA 91710-5149

Attn: Craig Maetzold
(craig.maetzold@omya.com)
Omya California, Inc. (via email)
7225 Crystal Creek Rd
Lucerne Valley, CA 92356-8646

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
P. O. Box 386
Oro Grande, CA 92368-0386

Attn: Taghi Shoraka
P and H Engineering and Development
Corporation
1423 South Beverly Glen Blvd. Apt. A
Los Angeles, CA 90024-6171

Attn: Jessica Bails (J4Dx@pge.com)
Pacific Gas and Electric Company (via email)
22999 Community Blvd.
Hinkley, CA 92347-9592

Pak, Kae Soo and Myong Hui Kang
P. O. Box 1835
Lucerne Valley, CA 92356-1835

Patino, José
3914 W. 105th Street
Inglewood, CA 90303-1815

(wndrvr@aol.com)
Paustell, Joan Beinschroth (via email)
10275 Mockingbird Ave.
Apple Valley, CA 92308-8303

Pearce, Craig L.
127 Columbus Dr
Punxsutawney, PA 15767-1270

Perko, Bert K.
P. O. Box 762
Yermo, CA 92398-0762

Pettigrew, Dan
285 N Old Hill Road
Fallbrook, CA 92028-2571

Attn: Sean Wright (swright@pphcsd.org;
dbartz@pphcsd.org; llowrance@pphcsd.org)
Phelan Piñon Hills Community Services
District (via email)
4176 Warbler Road
Phelan, CA 92371-8819

Attn: John Poland
Poland, John R. and Kathleen A.
5511 Tenderfoot Drive
Fontana, CA 92336-1156

Polich, Donna
75 3rd Avenue #4
Chula Vista, CA 91910-1714

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

Attn: Carin McKay
Precision Investments Services, LLC
791 Price Street, #160
Pismo Beach, CA 93449-2529

Price, Donald and Ruth
933 E. Virginia Way
Barstow, CA 92311-4027

Pruett, Andrea
P. O. Box 37
Newberry Springs, CA 92365

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

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

Attn: Elizabeth Murena
(waterboy7F8@msn.com; etminav@aol.com)
Rancheritos Mutual Water Company (via
email)
P. O. Box 348
Apple Valley, CA 92307

Reed, Mike
9864 Donaldson Road
Lucerne Valley, CA 92356-8105

Attn: Brian C. Vail (bvail@river-west.com)
Reido Farms, LLC (via email)
2410 Fair Oaks Blvd., Suite 110
Sacramento, CA 95825-7666

(LucerneJujubeFarm@hotmail.com)
Rhee, Andrew N. (via email)
11717 Fairlane Rd, #989
Lucerne Valley, CA 92356-8829

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Kelly Rice
Rice, Henry C. and Diana
31823 Fort Cady Rd.
Newberry Springs, CA 92365-

Attn: Ian Bryant
Rim Properties, A General Partnership
15434 Sequoia Road
Hesperia, CA 92345-1667

Attn: Josie Rios
Rios, Mariano V.
P. O. Box 1864
Barstow, CA 92312-1864

Rivero, Fidel V.
612 Wellesley Drive
Corona, CA 92879-0825

(RayRizvi@Yahoo.com)
Rizvi, S.R Ali (via email)
4054 Allyson Terrace
Fremont, CA 94538-4186

Attn: Bill Taylor or Property Mngr
(billtr@rrmca.com)
Robertson's Ready Mix (via email)
200 S. Main Street, Suite 200
Corona, CA 92882-2212

Attn: Susan Sommers (sommerssqz@aol.com)
Rossi Family Trust, James Lawrence Rossi
and Naomi (via email)
P. O. Box 120
Templeton, CA 93465-0120

Attn: Robert Vega
Royal Way
2632 Wilshire Blvd., #480
Santa Monica, CA 90403-4623

Attn: Sam Marich
Rue Ranch, Inc.
P. O. Box 133109
Big Bear Lake, CA 92315-8915

Attn: Dale W. Ruisch
Ruisch Trust, Dale W. and Nellie H.
10807 Green Valley Road
Apple Valley, CA 92308-3690

Attn: Sherwin Shoraka
S and B Brothers, LLC
1423 S. Beverly Glen Blvd., Ste. A
Los Angeles, CA 90024-6171

Attn: Jafar Rashid
(jr123realestate@gmail.com)
S and E 786 Enterprises, LLC (via email)
3300 S. La Cienega Blvd.
Los Angeles, CA 90016-3115

Attn: Sara Fortuna (sarajfortuna@gmail.com;
fourteengkids@aol.com)
Saba Family Trust dated July 24, 2018 (via
email)
212 Avenida Barcelona
San Clemente, CA 92672-5468

Attn: Kanoë Barker
(kanoebarker@yahoo.com)
Sagabean-Barker, Kanoëcolokelani L. (via
email)
42224 Valley Center Rd
Newberry Springs, CA 92365

(BILLU711@Yahoo.com)
Samra, Jagtar S. (via email)
10415 Edgebrook Way
Northridge, CA 91326-3952

San Bernardino Co Barstow - Daggett Airport
268 W. Hospitality Lane, Suite 302
San Bernardino, CA 92415-0831

Attn: Jared Beyeler
(waterquality@sdd.sbcounty.gov)
San Bernardino County - High Desert
Detention Center (via email)
222 W. Hospitality Lane, 2nd Floor - SDW
San Bernardino, CA 92415-0415

Attn: Trevor Leja
(trevor.leja@sdd.sbcounty.gov)
San Bernardino County Service Area 29 (via
email)
222 W. Hospitality Lane, 2nd Floor (Spec
San Bernardino, CA 92415-0450

Attn: Jared Beyeler
(ssamaras@sdd.sbcounty.gov;
jbeyeler@sdd.sbcounty.gov;
waterquality@sdd.sbcounty.gov)
San Bernardino County Service Area 42 (via
email)
222 W. Hospitality Lane, 2nd Floor
San Bernardino, CA 92415-0450

Attn: Jared Beyeler
(ssamaras@sdd.sbcounty.gov;
jbeyeler@sdd.sbcounty.gov;
waterquality@sdd.sbcounty.gov)
San Bernardino County Service Area 64 (via
email)
222 W. Hospitality Lane, 2nd Floor - SDW
San Bernardino, CA 92415-0450

Attn: Jared Beyeler
(ssamaras@sdd.sbcounty.gov;
jbeyeler@sdd.sbcounty.gov;
waterquality@sdd.sbcounty.gov)
San Bernardino County Service Area 70J (via
email)
222 W. Hospitality Lane, 2nd Floor - SDW
San Bernardino, CA 92415-0450

Attn: Michelle Scray (mcsgray@gmail.com)
Scray, Michelle A. Trust (via email)
16869 State Highway 173
Hesperia, CA 92345-9381

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

(gloriasheppard14@gmail.com)
Sheppard, Thomas and Gloria (via email)
33571 Fremont Road
Newberry Springs, CA 92365-9520

Short, Jerome E.
P. O. Box 1104
Barstow, CA 92312-1104

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Francisco Ibarra
(maint@silverlakesassociation.com;
fibarra@silverlakesassociation.com)
Silver Lakes Association (via email)
P. O. Box 179
Helendale, CA 92342-0179

Attn: Nepal Singh (NepalSingh@yahoo.com)
Singh, et al. (via email)
4972 Yearling Avenue
Irvine, CA 92604-2956

Attn: Denise Smith
Smith, Denise dba Amerequine Beauty, Inc
P. O. Box 188
Newberry Springs, CA 92365-0188

Smith, Porter and Anita
8443 Torrell Way
San Diego, CA 92126-1254

Attn: Steve Kim (stevekim1026@gmail.com)
Snowball Development, Inc. (via email)
P. O. Box 2926
Victorville, CA 92393-2926

Attn: Chan Kyun Son
Son's Ranch
P. O. Box 1767
Lucerne Valley, CA 92356

Attn: Erika Clement
(Shannon.Oldenburger@SCE.com;
erika.clement@sce.com)
Southern California Edison Company (via
email)
2 Innovation Way, 2nd Floor
Pomona, CA 91768-2560

Attn: Maria de Lara Cruz
(maria.delaracruz@mineralstech.com)
Specialty Minerals, Inc. (via email)
P. O. Box 558
Lucerne Valley, CA 92356-0558

Sperry, Wesley
P. O. Box 303
Newberry Springs, CA 92365-0303

Spillman, James R. and Nancy J.
12132 Wilshire
Lucerne Valley, CA 92356-8834

Attn: Eric Miller (emiller@svla.com;
alogan@svla.com;)
Spring Valley Lake Association (via email)
SVL Box 7001
Victorville, CA 92395-5107

Attn: Joe Trombino
Spring Valley Lake Country Club
7070 SVL Box
Victorville, CA 92395-5152

Attn: Father Sarapamon
St. Antony Coptic Orthodox Monastery
P. O. Box 100
Barstow, CA 92311-0100

(chiefgs@verizon.net)
Starke, George A. and Jayne E. (via email)
8743 Vivero Street
Rancho Cucamonga, CA 91730-1152

Storm, Randall
51432 130th Street
Byars, OK 74831-7357

Sudmeier, Glenn W.
14253 Highway 138
Hesperia, CA 92345-9422

Attn: Alexandra Lioanag
(sandra@halannagroup.com)
Summit Valley Ranch, LLC (via email)
220 Montgomery Street, Suite PH-10
San Francisco, CA 94104-3433

Attn: Alex Vienna
Sundown Lakes, Inc.
P. O. Box 364
Newberry Springs, CA 92365-0364

Attn: Stephen H. Douglas
(sdouglas@centaurusenergy.com;
mdoublesin@centcap.net;
cre.notices@clenera.com)
Sunray Land Company, LLC (via email)
1717 West Loop South, Suite 1800
Houston, TX 77027-3049

Attn: Venny Vasquez (Ibaroldi@synagro.com)
Synagro-WWT, Inc. (dba Nursury Products,
LLC) (via email)
P. O. Box 1439
Helendale, CA 92342-

Attn: Russell Szykowski
Szykowski, Ruth J.
46750 Riverside Rd.
Newberry Springs, CA 92365-9738

Attn: Bill and Elizabeth Tallakson
(billtallakson@sbcglobal.net)
Tallakson Family Revocable Trust (via email)
11100 Alto Drive
Oak View, CA 93022-9535

Tapie, Raymond L.
73270 Desert Greens Dr N
Palm Desert, CA 92260-1206

(jerryteisan@gmail.com)
Teisan, Jerry (via email)
P. O. Box 2089
Befair, WA 98528-2089

Attn: Daryl or Lucinda Lazenby
Thayer, Sharon
P. O. Box 845
Luceren Valley, CA 92356-

Attn: Stephen Thomas
Thomas, Stephen and Lori
4890 Topanga Canyon Bl.
Woodland Hills, CA 91364-4229

Attn: Lynnette L. Thompson
Thompson Living Trust, James A. and Sula B.
22815 Del Oro Road
Apple Valley, CA 92308

Mojave Basin Area Watermaster Service List as of May 22, 2024

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
Oro Grande, CA 92368-9617

Attn: Doug Heinrichs
Thunderbird County Water District
P. O. Box 1105
Apple Valley, CA 92307-1105

Attn: Jim Hoover
Triple H Partnership
35870 Fir Ave
Yucaipa, CA 92399-9635

Attn: Mike Troeger (mjtroeger@yahoo.com)
Troeger Family Trust, Richard H. (via email)
P. O. Box 24
Wrightwood, CA 92397

Turner, Terry
726 Arthur Lane
Santa Maria, CA, CA 93455-7403

Attn: Aurelio Ibarra (aibarra@up.com;
powen@up.com)
Union Pacific Railroad Company (via email)
HC1 Box 33
Kelso, CA 92309-

(druppal@aicdent.com)
Uppal, Gagan (via email)
220 S Owens Drive
Anaheim, CA 92808-1327

(gagevaage23@gmail.com)
Vaage, Gage V. (via email)
47150 Black Butte Road
Newberry Springs, CA 92365-9698

Vaca, Andy and Teresita S.
5550 Avenue Juan Bautista
Riverside, CA 92509-5613

Attn: Dean Van Bastelaar
Van Bastelaar, Alphonse
45475 Martin Road
Newberry Springs, CA 92365-9625

Attn: Glen and Jennifer Van Dam
(gvandam@verizon.net)
Van Dam Family Trust, Glen and Jennifer
(via email)
3190 Cottonwood Avenue
San Jacinto, CA 92582-4741

Attn: Jacob Bootsma
Van Leeuwen Trust, John A. and Ietie
44128 Silver Valley Road
Newberry Springs, CA 92365-9588

Attn: John Driscoll
Vernola Trust, Pat and Mary Ann
P. O. Box 2190
Temecula, CA 92593-2190

Attn: John Nahlen
Victor Valley Community College District
18422 Bear Valley Road, Bldg 10
Victorville, CA 92395-5850

Attn: Jade Kiphen
Victor Valley Memorial Park
17150 C Street
Victorville, CA 92395-3330

Attn: Arnold Villarreal
(avillarreal@victorvilleca.gov;
ccun@victorvilleca.gov)
Victorville Water District, ID#1 (via email)
P. O. Box 5001
Victorville, CA 92393-5001

Attn: Arnold Villarreal
(avillarreal@victorvilleca.gov;
kmetzler@victorvilleca.gov;
snawaz@victorvilleca.gov)
Victorville Water District, ID#1 (via email)
P. O. Box 5001
Victorville, CA 92393-5001

Attn: Arnold Villarreal
(sashton@victorvilleca.gov;
avillarreal@victorvilleca.gov;
dmathews@victorvilleca.gov)
Victorville Water District, ID#2 (via email)
P. O. Box 5001
Victorville, CA 92393-5001

Vogler, Albert H.
17612 Danbury Ave.
Hesperia, CA 92345-7073

Attn: Joan Wagner
Wagner Living Trust
22530 Calvert Street
Woodland Hills, CA 91367-1704

Attn: Christian Joseph Wakula
Wakula Family Trust
11741 Ardis Drive
Garden Grove, CA 92841-2423

(Jlow3367@gmail.com)
Wang, Steven (via email)
2551 Paljay Avenue
Rosemead, CA 91770-3204

Attn: Barbara Allard-Ward
(kenbombero@aol.com; allardward@aol.com)
Ward, Barbara (via email)
655 That Road
Weiser, ID 83672-5113

Ward, Raymond
P. O. Box 358
Newberry Springs, CA 92365-0358

Weems, Lizzie
9157 Veranda Court
Las Vegas, NV 89149-0480

Weerasinghe, Maithri N.
P. O. Box 487
Barstow, CA 92312-0487

Mojave Basin Area Watermaster Service List as of May 22, 2024

(andrewwerner11@gmail.com)
Werner, Andrew J. (via email)
1718 N Sierra Bonita Ave
Los Angeles, CA 90046-2231

Attn: James Woody
West End Mutual Water Company
P. O. Box 1732
Lucerne Valley, CA 92356

West, Howard and Suzy
9185 Loma Vista Road
Apple Valley, CA 92308-0557

West, Jimmie E.
P. O. Box 98
Oro Grande, CA 92368-0098

Attn: Nick Gatti ()
Western Development and Storage, LLC (via email)
5701 Truxtun Avenue, Ste. 201
Bakersfield, CA 93309-0402

Attn: Chung Cho Gong
Western Horizon Associates, Inc.
P. O. Box 397
Five Points, CA 93624-0397

Attn: Genaro Zapata
Westland Industries, Inc.
520 W. Willow St.
Long Beach, CA 90806-2800

Attn: Thomas G. Ferruzzo
(tferruzzo@ferruzzo.com)
Wet Set, Inc. (via email)
44505 Silver Valley Road, Lot #05
Newberry Springs, CA 92365-9565

Wiener, Melvin and Mariam S.
1626 N. Wilcox Avenue
Los Angeles, CA 90028-6234

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

Attn: Connie Tapie
(praisethelord7777@yahoo.com)
Withey, Connie (via email)
P. O. Box 3513
Victorville, CA 92393-3513

Witte, E. Daniel and Marcia
31911 Martino Drive
Daggett, CA 92327-9752

Attn: Mark J. Cluff
WLSR, Inc.
3507 N 307th Drive
Buckeye, AZ 85396-6746

Attn: David A. Worsey
Worsey, Joseph A. and Revae
P. O. Box 422
Newberry Springs, CA 92365-0422

(thechelseaco@yahoo.com)
Yang, Zilan (via email)
428 S. Atlantic Blvd #205
Monterey Park, CA 91754-3228

Attn: Eric L. Dunn, Esq.
(edunn@awattorneys.com)
Aleshire & Wynder, LLP (via email)
2361 Rosecrans Avenue
Suite 475
El Segundo, CA 90245-4916

Attn: Christine M. Carson, Esq.
(ccarson@awattorneys.com)
Aleshire & Wynder, LLP (via email)
2361 Rosecrans Avenue
Suite 475
El Segundo, CA 90245-4916

Attn: Alison Paap (apaap@agloan.com)
American AgCredit (via email)
42429 Winchester Road
Temecula, CA 92590-2504

Attn: Wesley A. Miliband, Esq.
(wes.miliband@aalr.com)
Atkinson, Andelson, Loya, Ruud & Romo
(via email)
2151 River Plaza Drive
Suite 300
Sacramento, CA 95833-

Attn: W.W. Miller, Esq. (bmiller@aalr.com)
Atkinson, Andelson, Loya-Ruud & Romo (via email)
3612 Mission Inn Avenue, Upper Level
Riverside, CA 92501

Attn: Christopher L. Campbell, Esq.
Baker, Manock & Jensen
5260 N. Palm Avenue, 4th Floor
Fresno, CA 93704-2209

Attn: Piero C. Dallarda, Esq.
(piero.dallarda@bbklaw.com)
Best, Best & Krieger LLP (via email)
P.O. Box 1028
Riverside, CA 92502-

Attn: Aloson Toivola, Esq.
(alison.toivola@bbklaw.com)
Best, Best & Krieger LLP (via email)
300 South Grand Avenue
25th Floor
Los Angeles, CA 90071

Attn: Christopher Pisano, Esq.
(christopher.pisano@bbklaw.com)
Best, Best & Krieger LLP (via email)
300 South Grand Avenue
25th Floor
Los Angeles, CA 90071

Attn: Eric L. Garner, Esq.
(eric.garner@bbklaw.com)
Best, Best & Krieger LLP (via email)
3750 University Avenue
3rd Floor
Riverside, CA 92502-1028

Attn: Stephanie Osler Hastings, Esq.
(SHastings@bhfs.com; mcarlson@bhfs.com)
Brownstein Hyatt Farber Schreck, LLP (via email)
1021 Anacapa Street, 2nd Floor
Santa Barbara, CA 93101-2102

Attn: William J. Brunick, Esq.
(bbrunick@bmklawplc.com)
Brunick, McElhane & Kennedy PLC (via email)
1839 Commercenter West
P.O. Box 13130
San Bernardino, CA 92423-3130

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Terry Caldwell, Esq.
Caldwell & Kennedy
15476 West Sand Street
Victorville, CA 92392

Attn: Stephen Puccini
(stephen.puccini@wildlife.ca.gov)
California Department of Fish and Wildlife
(via email)

Attn: Alexander Devorkin, Esq.
California Department of Transportation
100 South Main Street, Suite 1300
Los Angeles, CA 90012-3702

Attn: Nancy McDonough
California Farm Bureau Federation
2300 River Plaza Drive
Sacramento, CA 95833

Attn: Jeffery L. Caufield, Esq.
(Jeff@caufieldjames.com)
Caufield & James, LLP (via email)
2851 Camino Del Rio South, Suite 410
San Diego, CA 92108-

Attn: Matthew T. Summers, Esq.
(msummers@chwlaw.us)
Colantuono, Highsmith & Whatley, PC (via email)
790 E. Colorado Blvd., Suite 850
Pasadena, CA 91101-2109

Attn: Andrew L. Jared, Esq.
(ajared@chwlaw.us)
Colantuono, Highsmith & Whatley, PC (via email)
790 E. Colorado Blvd., Suite 850
Pasadena, CA 91101-2109

Attn: Maria Insixiengmay
(Maria.Insxiengmay@cc.sbcounty.gov)
County of San Bernardino, County Counsel
(via email)
385 N. Arrowhead Avenue, 4th Floor
San Bernardino, CA 92415-0140

Attn: Robert E. Dougherty, Esq.
Covington & Crowe
1131 West 6th Street
Suite 300
Ontario, CA 91762

Attn: Ed Dygert, Esq.
Cox, Castle & Nicholson
2049 Century Park East, 28th Floor
Los Angeles, CA 90067

Attn: Noah GoldenKrasner, Dep
(Noah.GoldenKrasner@doj.ca.gov)
Department of Justice (via email)
300 S. Spring Street, Suite 1700
Los Angeles, CA 90013

Attn: Marilyn Levin, Dep
(Marilyn.Levin@doj.ca.gov)
Department of Justice (via email)
300 S. Spring Street, Suite 1702
Los Angeles, CA 90013

Attn: James S. Heiser, Esq.
Ducommun, Inc.
23301 S. Wilmington Avenue
Carson, CA 90745

Attn: Marlene Allen Murray, Esq.
(mallenmurray@fennemorelaw.com)
Fennemore LLP (via email)
550 East Hospitality Lane
Suite 350
San Bernardino, CA 92408-4206

Attn: Derek Hoffman, Esq.
(dhoffman@fennemorelaw.com)
Fennemore LLP (via email)
550 East Hospitality Lane
Suite 350
San Bernardino, CA 92408-4206

Attn: Thomas G. Ferruzzo, Esq.
(tferruzzo@ferruzzo.com)
Ferruzzo & Ferruzzo, LLP (via email)
3737 Birch Street, Suite 400
Newport Beach, CA 92660

Attn: Toby Moore, PhD, PG, CHG
(TobyMoore@gswater.com)
Golden State Water Company (via email)
160 W. Via Verde, Suite 100
San Dimas, CA 91773-

Attn: Michelle McCarron
(mmccarron@gdblawoffices.com;
andre@gdblawoffices.com)
Green de Bortnowsky, LLP (via email)
30077 Agoura Court, Suite 210
Agoura Hills, CA 91301-2713

Attn: Paige Gosney, Esq.
(paige.gosney@greshamsavage.com;Dina.Sneider@GreshamSavage.com)
Gresham, Savage, Nolan & Tilden, LLP (via email)
550 E Hospitality Ln, Ste. 500
San Bernardino, CA 92408-4208

Attn: Calvin R. House, Esq.
Gutierrez, Preciado & House
3020 E. Colorado BLVD
Pasadena, CA 91107-3840

Attn: Curtis Ballantyne, Esq.
Hill, Farrer & Burrill
300 S. Grand Avenue, 37th Floor
1 California Plaza
Los Angeles, CA 90071

Attn: Michael Turner, Esq.
(mturner@kasdandclaw.com)
Kasdan, LippSmith Weber Turner, LLP (via email)
19900 MacArthur Blvd., Suite 850
Irvine, CA 92612-

Attn: Mitchell Kaufman, Esq.
(mitch@kmellp.com)
Kaufman McAndrew LLP (via email)
16633 Ventura Blvd., Ste. 500
Encino, CA 91436-1835

Attn: Thomas S. Bunn, Esq.
(TomBunn@lagerlof.com)
Lagerlof, Senecal, Gosney & Kruse, LLP (via email)
301 N. Lake Avenue, 10th Floor
Pasadena, CA 91101-5123

Attn: Peter J. Kiel (pkiel@cawaterlaw.com)
Law Office of Peter Kiel PC (via email)
PO Box 422
Petaluma, CA 94953-0422

Attn: Fred J. Knez, Esq.
Law Offices of Fred J. Knez
6780 Indiana Ave, Ste 150
Riverside, CA 92506-4253

Attn: Robert C. Hawkins, Esq.
Law Offices of Robert C. Hawkins
14 Corporate Plaza, Suite 120
Newport, CA 92660

Mojave Basin Area Watermaster Service List as of May 22, 2024

Attn: Arthur G. Kidman, Esq.
McCormick, Kidman & Behrens
695 Town Center Drive, Suite 400
Costa Mesa, CA 92626-7187

Attn: Jeffrey D Ruesch
(watermaster@mojavewater.org)
Mojave Basin Area Watermaster (via email)
13846 Conference Center Drive
Apple Valley, CA 92307

Attn: Adnan Anabtawi
(aanabtawi@mojavewater.org)
Mojave Water Agency (via email)
13846 Conference Center Drive
Apple Valley, CA 92307

Attn: Frederic A. Fudacz, Esq.
(ffudacz@nossaman.com)
Nossaman LLP (via email)
777 South Figueroa Street, 34th Floor
Los Angeles, CA 90017-

Attn: Kieth Lemieux
(KLemieux@omlaw.com)
Olivarez Madruga Lemieux O'Neill, LLP (via email)
500 South Grand Avenue, 12th Floor
Los Angeles, CA 90071-2609

Attn: Betsy Brunswick (bmb7@pge.com)
Pacific Gas and Electric Company (via email)
77 Beale Street, B28P
San Francisco, CA 94105-1814

Attn: Steven B. Abbott, Esq.
(sabbott@redwineandsherrill.com;
fluna@redwineandsherrill.com)
Redwine and Sherrill (via email)
3890 Eleventh Street
Suite 207
Riverside, CA 92501-

Attn: Todd O. Maiden, Esq.
(TMaiden@ReedSmith.com)
Reed Smith LLP (via email)
101 Second Street
Suite 1800
San Francisco, CA 94105-

Attn: James L. Markman, Esq.
Richards, Watson & Gershon
1 Civic Center Circle
P.O. Box 1059
Brea, CA 92822-1059

Attn: Elizabeth Hanna, Esq.
Rutan & Tucker
P.O. Box 1950
Costa Mesa, CA 92626

Attn: Randall R. Morrow, Esq.
Sempra Energy Law Department
Office of the General Counsel
555 West Fifth Street, Suite 1400
Los Angeles, CA 90013-1011

Attn: Shannon Oldenburg, Esq.
(shannon.oldenburg@sce.com)
Southern California Edison Company
Legal Department (via email)
P.O. Box 800
Rosemead, CA 91770

Attn: Mary Howard
Southern California Gas Company
Transmission Environmental Consultant
P. O. Box 2300, ML9314
Los Angeles, CA 91313-2300

Attn: Rick Ewaniszyk, Esq.
The Hegner Law Firm
14350 Cive Drive
Suite 270
Victorville, CA 92392

Attn: Agnes Vander Dussen Koetsier
(beppeauk@aol.com)
Vander Dussen Trust, Agnes & Edward (via email)
P.O. Box 5338
Blue Jay, CA 92317-

Attn: Robert C. Wagner, P.E.
(rcwagner@wbecorp.com)
Wagner & Bonsignore
Consulting Civil Engineers (via email)
2151 River Plaza Drive, Suite 100
Sacramento, CA 95833-4133