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12 MOJAVE WATER AGENCY

13 **SUPERIOR COURT OF THE STATE OF CALIFORNIA**

14 **IN AND FOR THE COUNTY OF RIVERSIDE**

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

JCCP NO.: 5265  
Lead Case No: CIV 208568

17 **MOJAVE BASIN WATER CASES**

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

18 **CITY OF BARSTOW,**

19 Plaintiff,

20 vs.

21 **CITY OF ADELANTO, et al.,**

22 Defendant.

**NOTICE OF ERRATA TO  
WATERMASTER'S AMENDED  
OPPOSITION TO GOLDEN STATE  
WATER COMPANY'S MOTION TO  
ENFORCE JUDGMENT;  
DECLARATION OF ROBERT C.  
WAGNER**

23 **AND RELATED CROSS ACTIONS**

Date: October 22, 2024  
Time: 1:30 p.m.  
Dept.: M302, Menifee Justice Center  
Reservation ID: 562595011427

Hon. Craig G. Riemer, Judge Presiding By  
Assignment

1 **TO THE PARTIES ABOVE-NAMED AND THEIR COUNSEL OF RECORD:**

2 **PLEASE TAKE NOTICE THAT** Exhibits A through E were inadvertently omitted  
3 from the Technical Memorandum attached as Exhibit 1 to the declaration of Robert C. Wagner  
4 (exhibit A to WATERMASTER'S AMENDED OPPOSITION TO GOLDEN STATE WATER  
5 COMPANY'S MOTION TO ENFORCE JUDGMENT, filed and served on October 9, 2024).  
6 Attached as Exhibit A hereto, is a complete and full copy of Mr. Wagner's declaration, which  
7 includes the inadvertently omitted Exhibits A through E to the Technical Memorandum.

8 Dated: October 11, 2024

**BRUNICK, McELHANEY & KENNEDY PLC**

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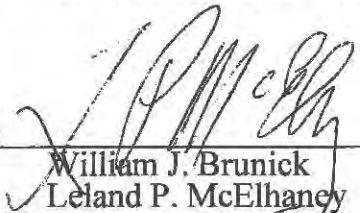
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By:   
\_\_\_\_\_  
William J. Brunick  
Leland P. McElhanev  
Attorneys for Defendant/Cross-complainant,  
MOJAVE WATER AGENCY

**EXHIBIT A**

DECLARATION OF ROBERT C. WAGNER

I, Robert C. Wagner, declare as follows:

I serve in the capacity of Engineer for the Mojave Basin Area Watermaster. I have served as Watermaster Engineer for approximately 27 years; I have been studying the hydrology of the Mojave Basin Area for approximately 33 years. I have personal knowledge of the matters set forth herein and, if called as a witness, I could and would testify competently thereto.

The Technical Memorandum (TM, October 9, 2024), prepared by me and under my supervision and attached hereto as Exhibit 1, evaluates the Expert Report dated September 2024, prepared by Aquilogic and submitted by Golden State Water Company with its motion to enforce the Judgment.

At the hearing on October 2, 2024, Golden State Water Company (GSWC) stated that GSWC well fields have been experiencing water level declines during the recent five years. During the eleven years 2012 to 2022, the Mojave Basin Area experienced well below average water supply. Exhibit 2, prepared under my supervision, from USGS stream gage records, shows the historical inflow to Mojave River reckoned at the Forks. As shown on Exhibit 2, the Mojave River flow at the Forks during the period of 2012 to 2022 was 27,614 acre-feet per year, which is only 42 percent of the long-term average flow.

Exhibit 3 shows the results of the Transition Zone Water Balance with the estimated flows across the Helendale Fault (HF) since 1991. The period 2012 – 2022 was well below the long-term average, similar to the observed behavior of the Mojave River at The Forks (Exhibit 2). The Transition Zone Water Balance provides the surface and subsurface outflows to Centro. In general, the Centro subarea receives inflows across the HF and other deliveries directly to Centro. Inflows to Centro are calculated as (a) total streamflow to the Transition Zone measured at the Lower Narrows by the USGS; (b) discharge of treated wastewater by Victor Valley Water Reclamation Authority (VWVRA); (c) subsurface inflow measured at the Lower Narrows; (d) precipitation; (e) minus consumptive uses of pumping and riparian habitat water use.

Consumptive uses of pumping are estimated, but 99% of water pumped is metered/measured and has been since at least 2012. Exhibit 4 is a table of information maintained by Watermaster showing the



1 methods to measure verified production in the TZ for the period of 2012 to 2023. This demonstrates  
2 that the amount of verified production is precisely determined.

3 The TM presents an analysis of the conditions of the Mojave River near HF, presents estimates  
4 of flow across the HF over various time periods, documents the stability of water levels at and near the  
5 HF. According to the TM, the change in storage in the TZ over time has been relatively constant,  
6 meaning water levels show limited variability over time. The channel surface of the river will remain  
7 saturated, water cannot percolate into the sediments and is therefore rejected as streamflow allowing  
8 storms to pass through the TZ into Centro, as intended by the Judgment. The streamflow losses between  
9 Lower Narrows and Helendale Fault are due to consumptive uses as described later herein.

10 The TM explains that the flow that enters Centro from the Transition Zone has been declining  
11 over the recent years due to the severe drought conditions experienced from 2012 to 2022. This is the  
12 reason that GSWC wells are experiencing chronic water level declines during that time. Exhibit 5 shows  
13 an estimated water balance for Centro subarea during years 2012 to 2022. The average total inflow to  
14 Centro subarea at the HF during the 2012-2022 drought period was only about 16,861 acre-feet  
15 (including return flow or production) which is well below the long-term base period average inflow to  
16 Centro of 36,700 acre-feet (1931-1990) and the recent total average flow to Centro of 37,500 acre-feet  
17 during 1991-2023. During the same drought period of 2012-2022, the average total outflow from the  
18 Centro subarea was 24,527 acre-feet annually. This includes the average groundwater pumping of  
19 20,046 (including minimal producers), subsurface flow to Baja subarea of 1,462 acre-feet, surface flow  
20 to Baja subarea of 19 acre-feet, and riparian vegetation consumptive use of 3,000 acre-feet. In other  
21 words, the total average discharge from Centro has exceeded total recharge by at about 7,666 acre-feet  
22 during the eleven-year drought period evaluated herein. This demonstrates that the severe drought  
23 conditions during the 2012 to 2022 period caused the observed chronic decline on groundwater levels  
24 within the area of the Golden State's well fields.

25 Importantly, the flow across Helendale Fault, which represents the long-term average supply to  
26 Centro, will not occur every year. The Mojave River system is episodic, meaning there are long periods  
27 of well below average flow followed by occasional periods of well above average flow. The Judgment  
28 is predicated on long term average flow.

1 Exhibit 6 is a map showing some of the production wells in the area of the Hinkley and West  
2 Barstow. This exhibit includes water production for GSWC and other producers in the specific areas of  
3 focus. This exhibit also includes two hydrographs corresponding to observed water levels at monitoring  
4 wells 09N02W06L11-14 and 09N03W23F01,03 and 04. These wells are representative of water level  
5 responses to pumping and recharge within this area. The hydrographs show the continued decline in  
6 water levels during the period of 2012-2022 and other dry periods. The hydrographs also show the water  
7 level response to significant storm events, such as the event of 2023. This demonstrates that the Mojave  
8 Basin Area is a storm dependent system.

9 GSWC states that if the average flow to Helendale Fault is about 36,000 acre-feet per year, and  
10 the pumping is only 17,000 acre-feet per year, the water levels should not be declining. As explained  
11 above, the decline in water levels during the recent years is drought related. Furthermore, the Water  
12 Balance for Centro subarea for the years 2012 to 2022 shows that the average annual flow to Centro  
13 across the Helendale Fault was only 12,238 acre-feet per year (Exhibit 5) and not the long-term average  
14 of 36,000 acre-feet per year for the above-mentioned reasons. The calculated deficit during the drought  
15 period within Centro was 7,666 acre-feet, which means more water left the system through pumping and  
16 outflow (surface, subsurface, and consumptive uses) than was recharged. Hence water levels in wells  
17 would fall.

18 In regard to the Transition Zone Water Balance, GSWC complains that it is a simplified  
19 calculation that relies on several assumptions and estimates and therefore, it is inadequate to estimate  
20 inflows to Centro subarea. We disagree.

21 In response to GSWC's suggestion that Watermaster prepare a water budget for the TZ as  
22 recommended by Aquilogic, there are three significant elements of the water balance to the TZ, that are  
23 measured/metered. The waste stream from the Victor Valley Wastewater Treatment Plant is discharged  
24 within the TZ and is measured. The flow at Lower Narrows is measured directly by USGS weekly to  
25 estimate the mean daily discharge. Pumping as noted above is metered/measured. These measured data  
26 are the basis for the water balance in the TZ and calculating outflow across the Helendale Fault. The  
27 return flows from domestic and municipal consumptive uses are calculated based on population to  
28 estimate indoor water use and disposal. Outdoor water use for domestic irrigation is considered to

1 contribute no return flow (a conservative and simplifying assumption). Consumptive use for irrigation  
2 (agriculture) is determined with crop coefficient and climate data based on the Victorville CIMIS station;  
3 total agricultural pumping is about 10% of the total pumping in the TZ (by one producer). The riparian  
4 habitat consumptive use is determined based on the riparian water use as determined with the remote  
5 sensing study presented in 2011 by the United States Bureau of Reclamation (USBR), adjusted on a  
6 yearly basis for that year's climate data. The riparian water uses vary between 5,700 and 6,300 acre-feet,  
7 or about 6,000 acre-feet per year; the value determined by Lines and Bilhorn, (USGS and CDFG, 1996).  
8 On a long-term average annual basis (1951-2023), the stream flows at Lower Narrows including  
9 VVWRA discharges, is about 49,000 acre-feet per year (see Exhibit 7). Pumping in the TZ during 2023  
10 was about 11,000 acre-feet determined by meters/measurements. Riparian habitat uses, as estimated by  
11 Lines and Bilhorn (1996) and confirmed by USBR through remote sensing techniques has been about  
12 6,000 acre-feet. The estimated consumptive use of pumping about 6,600 acre-feet is less than 10% of  
13 the total measured values. The calculation of the flow across the Helendale Fault (by arithmetic) is no  
14 less precise than other methods available.

15 The use of the USGS Basin Characterization Model (BCM) and the Parameter-elevation  
16 Regressions on Independent Slopes Model (PRISM) are included in the Upper Mojave Basin Model and  
17 as appropriate will be incorporated into the model expansion.

18 Having studied the data from the unreliable Wild Crossing gage and USGS conclusions as to its  
19 unreliability, it is my opinion that the installation of a stream gage at or near the Helendale Fault would  
20 be subject to the same conditions that resulted in the Wild Crossing gage's abandonment, as noted by  
21 USGS; similarly, installing a stream gage at or near the Helendale Fault as suggested by GSWC would  
22 encounter the same conditions resulting in an unreliable record.

23 GSWC's Expert Report also indicates that Alto producers are not meeting their Subarea  
24 Obligation to deliver 23,000 acre-feet annually to the Transition Zone. The surface flow component of  
25 this obligation (21,000 acre-feet annually) has been satisfied every year and is reported in the  
26 Watermaster's Annual Reports to the Court. The surface flow component consists of base flow estimated  
27 from measured streamflow at Lower Narrows, and VVWRA discharges (see Exhibit 7). The subsurface  
28 flow component of this obligation (2,000 acre-feet annually) has been deemed by the Judgment and has



1 been confirmed by later Watermaster studies: Report titled "Subsurface Flow Between Subareas" dated  
2 February 22, 2006 (included as Exhibit 8). This Watermaster study and report was presented during the  
3 Watermaster Board meeting on February 22, 2006 (agenda and adopted Board actions are included in  
4 Exhibit 9) and was unanimously adopted by Watermaster Board during the Watermaster Board meeting  
5 on March 22, 2006 (agenda and adopted Board actions are included in Exhibit 10).

6 The TM also includes information about Mojave Water Agency and Watermaster's efforts to  
7 expand the Upper Mojave River Basin Model, improve data collection, installation of a stream gaging  
8 station between the HF and Barstow, and performance of geophysical investigations.

9 In the furtherance of the foregoing, I have reviewed the water level hydrographs for the TZ. The  
10 hydrographs are published by Watermaster annually in its Annual Report to the Court and are posted on  
11 the Mojave Water Agency website and are also included herein as Exhibit A to the TM. The TZ  
12 hydrographs support the Watermaster's conclusion that over time, the TZ water levels have been stable  
13 indicating that there is limited change in storage with the TZ.

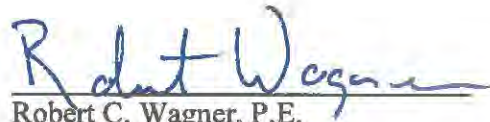
14 During dry periods, there is some depletion in storage due to consumptive use of water by riparian  
15 habitat, domestic, municipal, recreation and a small amount of agricultural use. This depletion is  
16 replaced when flow in the river increases in the fall and winter of each year and following storm events.  
17 The amount of the depletion is equal to the consumptive uses; this is evidenced by the stability over time  
18 of the water levels, within the TZ and at and near the HF. Thus, the changes in storage in the TZ are  
19 cumulatively zero or near zero over time.

20 The Upper Mojave Basin Model is an adequate tool for estimating flow into the TZ from the  
21 upstream portion of Alto. The Model is currently being expanded to include the TZ and the Centro and  
22 Baja subareas and when complete (December 2024) will provide another tool for basin management.

23 The expanded model will be a useful tool to estimate flow at boundaries like the TZ to Centro  
24 and to predict water level changes for future basin management.

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

Dated: October 9, 2024

  
Robert C. Wagner, P.E.

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# **EXHIBIT 1**

# Wagner & Bonsignore

Consulting Civil Engineers, A Corporation

Nicholas F. Bonsignore, P.E.  
Robert C. Wagner, P.E.  
Paula J. Whealen

Martin Berber, P.E.  
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David P. Lounsbury, P.E.  
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Ryan E. Stolfus

## TECHNICAL MEMORANDUM

**To:** Mr. Lee McElhaney  
Attorney, Mojave Basin Area Watermaster  
Brunick, McElhaney & Kennedy  
[lmcelhaney@bmklawplc.com](mailto:lmcelhaney@bmklawplc.com)

**From:** Robert Wagner, P.E., A. Leonardo Urrego-Vallowe

**Date:** October 9, 2024

**Re:** **Aquilogic Expert Report, September 2024**

This Technical Memorandum summarizes and responds to the statements and conclusions presented by Aquilogic in their Expert Report (September 2024) on behalf of Golden State Water Company (GSWC). In summary, the Expert Report provided opinions and recommendations from two experts, analyzed the water budgets prepared by Watermaster Engineer, and conducted a statistical analysis of water levels in Centro. The statistical analysis evaluated the Mann-Kendall(MK) correlation/trend tests for seventeen active GSWC wells for water levels versus time and water levels versus total pumping. Many of the issues raised in the Aquilogic Expert Report, are similar to or variations of the same arguments and analysis previously presented by Aquilogic on February 28, 2024.

Watermaster Engineer provided a detailed response to GSWC (Aquilogic) in a Technical Memorandum (TM) to Mr. Lee McElhaney Attorney, Mojave Basin Area Watermaster dated April 12, 2024. We provide additional details in this memorandum as well as incorporating by reference data and information in our April 12, 2024 TM.

### Opinions Expressed by Aquilogic

The Expert Report presented several opinions prepared by Mr. Anthony Brown and Mr. Robert Abram, wherein they claim groundwater levels in Centro have been decreasing as a result of either excessive discharge (over pumping) and/or insufficient recharge in Centro. As explained herein the Expert Report does not consider other possible causes of water level decline in the GSWC wells, notable the impacts of the prolonged period of severe drought from 2012 to 2022.

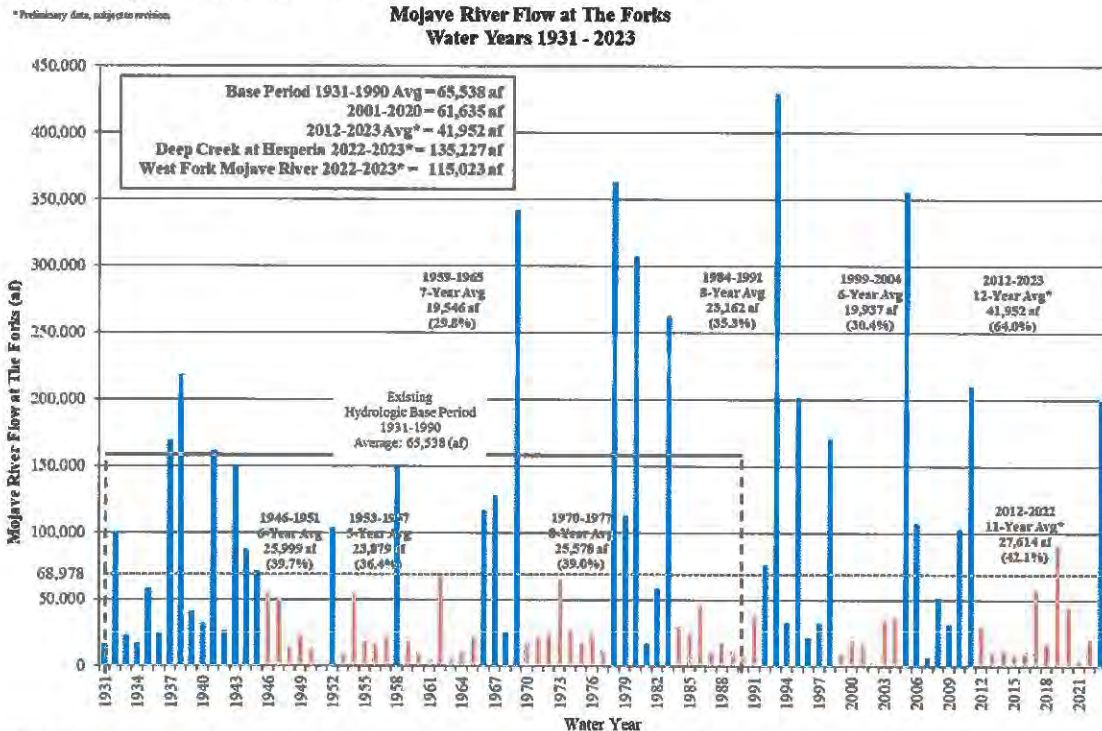


The Expert Report concluded that the decline in observed groundwater levels at the GSWC’s production wells is not a result of over-pumping. Instead, the Expert Report indicated that it is more likely the result of decreased recharge to Centro from Alto, or a failure of the Alto Producers to meet their Subarea Obligations under the Judgment. While there has been a significant decrease in recharge to Centro as a result of severe drought conditions from 2012 to 2022 as reflected in the hydrographs of monitoring wells located near Hodge and Golden State’s well fields, the evidence is quite clear the Alto Producers have been meeting, and are meeting, their Subarea Obligation to the Transition Zone.

**Flow from Alto to Centro (Helendale Fault)**

The Mojave Basin Area (MBA) experiences frequent periods of below average water supply as indicated in the chart below. The chart shows the history of inflow as measured at the Forks near Hesperia; approximating the surface inflow to the Basin Area. As shown, the 11 year period from 2012-2022 experienced only about 42% of the long term average water supply see Figure 1.

**Figure 1. Mojave River Flow at the Forks**



Note: Discharge of Mojave River at The Forks from the addition of values as reported from USGS stations at West Fork Mojave River Near Hesperia, CA (1020100), and Deep Creek Near Hesperia, CA (1020200) from 1931-1971, the gauging of 1020100 and Mojave River Below Forks Reservoir Near Hesperia, CA (1026110) from 1972-1071, and the addition of West Fork Mojave River Above Mojave River Falls Reservoir Near Hesperia, CA (1026085) and 1026090 from 1973-Present.

The Transition Zone, or TZ (area between the Alto and Centro Subareas) includes about 15 miles of Mojave River channel between the Lower Narrows, Mojave River, and the Helendale Fault; a geologic structure separating Alto and Centro Subareas. There is a United States Geological Survey (USGS) stream gage at the Lower Narrows. Surface flows across the Helendale Fault,

that become recharge to the Centro subarea, are episodic, resulting from large infrequent storm events.

Flow at the Helendale Fault (HF) has been estimated by various researchers over time. Shown below are estimates of average annual flow at HF for different time periods:

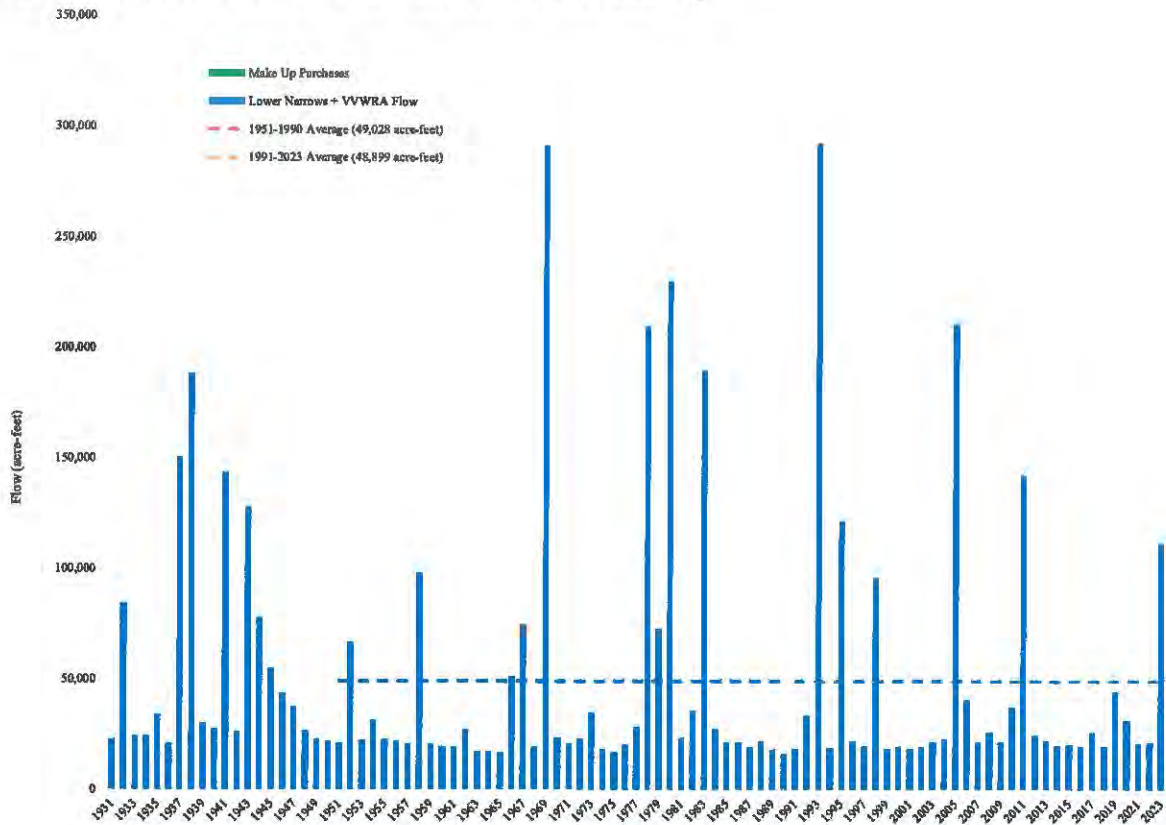
California Department of Water Resources, (1967) for the period 1936-1961 = **35,500 AF**  
USGS, (Stamos, 2001) for the period 1951-1999 = **35,819 AF**  
Albert A. Webb and Associates (Webb, 2000) 1931-1990 = **36,700 AF**  
Watermaster (2024), 1991-2023 = 34,900 AF plus 2,305 AF Make Up water purchases = **37,205 AF**.

Thus, total average annual surface flows from the TZ into the Centro subarea, as estimated at Helendale Fault have not changed significantly since at least the period 1936-1961.

#### **Measured Surface Flow into the TZ**

Surface flow into the TZ is measured by USGS at the Mojave River Lower Narrows, near Victorville (measurements made weekly by USGS staff). Treated sewer effluent is measured and discharged by the Victor Valley Wastewater Reclamation Authority (VWVRA) into the TZ. Shown below as Figure 2 is a graph of the measured flow at Lower Narrows, and the measured VWVRA discharges since 1951. Treated effluent discharge to the river began in about 1981.

Figure 2. Total stream flows at Lower Narrows + VVWRA Discharge

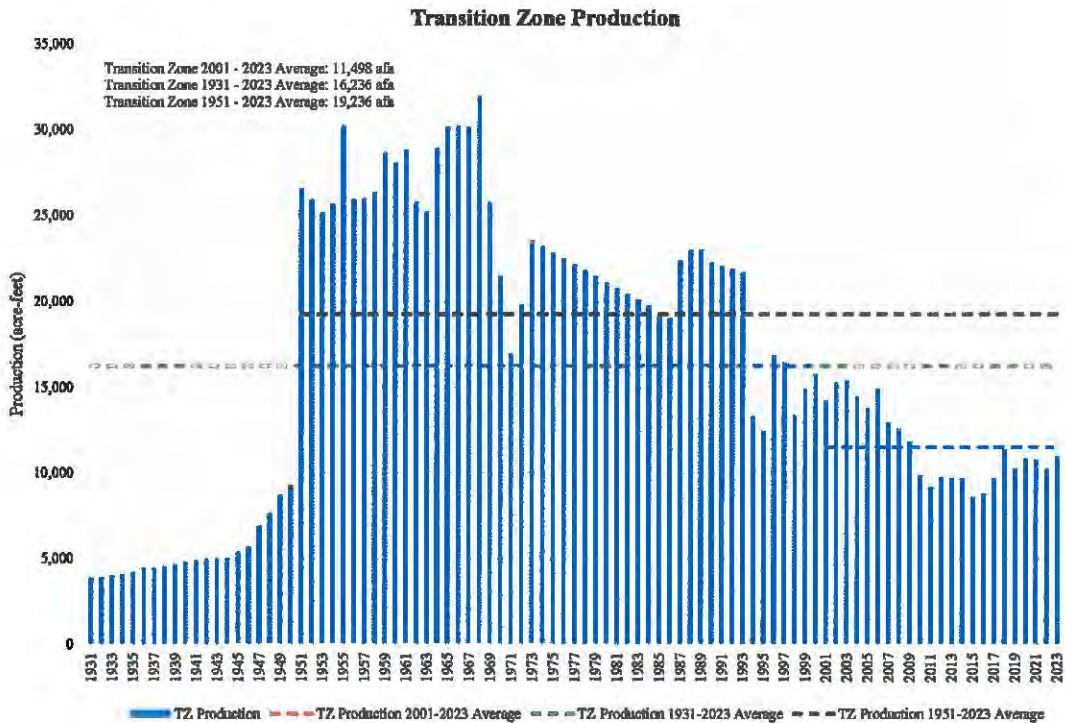


As shown above, the average inflow to the TZ between 1951 and 1990 (49,028 AF), and between 1991 and 2023 (48,899 AF) is little changed (-0.26%). The graphic (Figure 2) is based on measurements as reported by USGS and VVWRA, and not on any estimates made by Watermaster.



Further, pumping in the TZ has declined significantly from the past. The graphic below shows changes in pumping within the TZ:

Figure 3. Historic groundwater pumping in the Transition Zone.



Note:  
 1931 - 1993 data from USGS "Simulation of Ground-Water Flow in the Mojave River Basin, California", Stamos, 2001  
 1994 - 2023 data from Mojave Watermaster.

Average annual pumping in the TZ declined by 40.2% from the period 1951-2023 to the 2001-2023 period. Pumping during 2023 was 10,039 AF, and consumptive use of pumping (losses) were about 6,859 AF. Phreatophyte use, which also contributes to losses in the TZ was about 5,702 AF in 2023.<sup>1</sup> If the future average annual flow into the TZ, is similar to the past (about 48,899 AF) and consumptive uses are about the same as they are now, *average annual* outflow to Centro will be about 36,338 AF.

The average annual water supply into the TZ has remained constant over time, and the water demands have fallen. This has resulted in stable water levels in the TZ, allowing storms to pass to Centro; consequently, the estimated flow across the HF is about the same now as in the past.

<sup>1</sup> Phreatophytes consumptive use is calculated by Watermaster on an annual basis based on values reported in "Evapotranspiration Water use Analysis of Saltcedar and Other Vegetation in the Mojave River Flood plain, 2007 and 2010, Mojave Water Agency Water Supply Management Study, Phase 1 Report". Values are adjusted to annual climatological conditions.

This condition is reflected in the TZ water levels as presented in the Watermaster's Annual Report (Figures 3-7, 3-8 and 3-9). The compilation of hydrographs in the TZ are included herein as Exhibit A.

The change in storage in the TZ over time has been relatively constant, meaning water levels show limited variability over time. The Centro Subarea hydrographs shown in Exhibit B show the sites located in the vicinity of the TZ in the Centro subarea (downstream of the Helendale Fault). These hydrographs show groundwater elevations to be relatively stable over time (08N04W21M-01-04 [Exhibit C], 08N04W12Q01 [Exhibit D], 08N03W04A07 [Exhibit E]). Exhibits A, B, C, D, and E all show stability of the groundwater levels within the TZ. Specifically, wells located in the Centro subarea closest to the TZ, as reflected in Exhibits C, D, and E indicate stable water levels, also the average surface inflow to the TZ (Figure 3) has not changed from 1951 to 2023. This confirms that the historical flows to the Centro Subarea have not been significantly reduced. Therefore, we conclude that the flow across the Helendale Fault has remained consistent as evidenced by these exhibits.

Importantly, the river reach between the HF and Barstow is normally a dry channel. Figure 4 is an aerial image showing the extent of the river reach between the HF and Barstow; the photo is dated August 22, 1969. Notably water year 1969 was an extreme flow event on the Mojave River. The flow at Barstow that year was reported by USGS to be (146,000 AF). Figure 5 shows the same reach of the river in 2022 following several years of drought. As noted, the channel in the photo is dry. This is the normal condition of the channel between the HF and Barstow (a distance of about 20 miles). There is only continuity of surface flow between the HF and Barstow during extreme storm events. During dry periods, sometime lasting many years, there is no flow in this reach of the river.

The statistical analysis presented by Aquilogic, intending to correlate pumping and water level change, and concluding that diminished flow into Centro must be the reason for declining water level in the GSWC wells, ignores time and distance, in its conclusion. As indicated above the average annual flow at HF is about 36,000 AF per year and has not significantly changed over time. In any given year, the flow will be substantially less than or greater than 36,000 AF, and in fact, it is likely to be low in some years. But the limited variability in water levels in the TZ as reflected in the hydrographs indicates little if any change in storage within the TZ over time; hence storms pass through the TZ in much the same way as they have in the past.

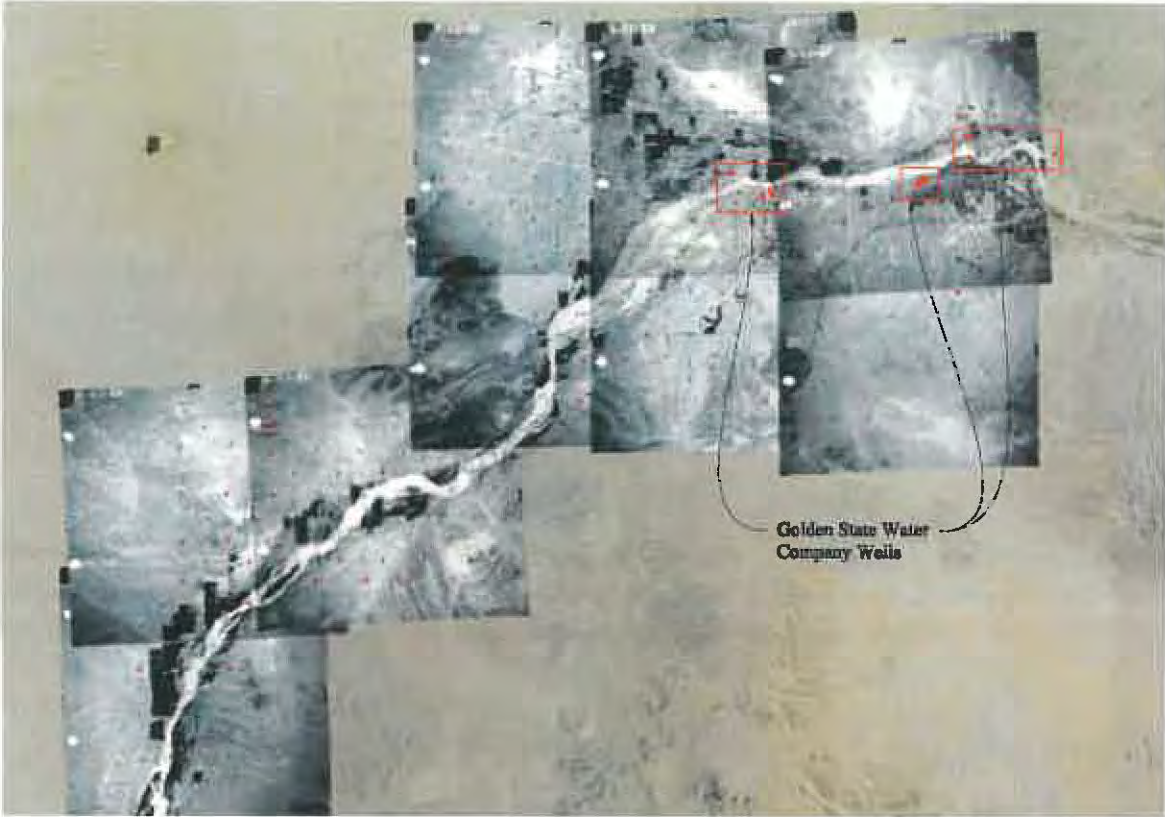


Figure 4. Aerial imagery of the area of interest taken in 1969 with the 2022 background image.





Figure 5. Aerial imagery of the area of interest taken in 2022.

### Statistical Analysis From Expert Report

Section 5 of the Expert Report is the analysis of water levels in the GSWC production wells. The figures shown in the Expert Report contain monthly Mojave River flows, measured at the Lower Narrows stream gage. The Expert Report provides a qualitative analysis of the relationship of stream flows and depth to water by stating that depth to water generally decreases during and after large storm events, (i.e., groundwater levels rise when Mojave River flows are higher). However, this does not support the Expert Report conclusion that the flow that enters Centro from the Transition Zone has been declining over the years for reasons other than diminished flow directly attributable to the severe drought conditions experienced from 2012 to 2022. The correlation between groundwater level rise and flows in the Mojave River is well known and is not disputed by the Watermaster. What is not addressed by the Expert Report is that the portion of streamflow that can eventually reach GSWC's extraction wells depends on a complex set of processes that a simple correlation cannot capture. These processes include but are not limited to the impact of severe drought conditions during various time periods, flow-impeding faults, frequency and intensity of the storms, prior state of the basin (due to dry



conditions and past pumping patterns), groundwater flow patterns and transmissivity distribution (ability of the sediments to transmit water). An intense and fast-moving storm might generate less recharge and generate more surface outflow from Centro to Baja. Also, as noted above, the normally dry channel between HF and Barstow will induce more recharge in that area.

The Expert Report's statistical analysis of depth to water versus pumping is based on the hypothesis that if chronic water level decline is due to over-pumping alone, there should be a correlation between pumping and depth to water. Similarly to the explanation given in the previous paragraph, this approach overlooks the complexity of the aquifer system and the processes that determine water levels. Also, the correlation presented by the Expert Report are calculated using pumping rate from the well where the water level is measured. Such an approach overlooks the fact that a well can be influenced by pumping from other wells in the basin or even the same wellfield. Even with this approach the results are not convincingly conclusive as 5 out of 17 wells are indicated to have statistically significant correlations/trends that show depth to water decreasing (water level rises) as pumping magnitude increases which shows that the aquifer system has more complexity than this simplified method can capture. Ultimately the lack of a clear correlation between water levels and pumping does not prove that chronic decline of water levels in the GSWC wells is due to a decline of inflow into Centro, except during periods of extreme drought such as occurred from 2012 to 2022. Other explanations that take into account the complexity of the basin should be considered. As an example, a well-calibrated model is a much better tool for this type of study as it incorporates the actual physical laws of groundwater flow, surface geology, and hydro-stratigraphy (geometry and extent of aquifers).

Importantly, there are many other possible reasons for water level declines in the GSWC wells other than the conclusion in the Expert Report, i.e. that the only possible reason is reduced outflow to Centro from Alto. For example:

- 1) Reduced flows to Centro through the HF during periods of extreme drought, such as was experienced from 2012 to 2022
- 2) The conclusion is incorrect based on the correlation; 5 of 17 wells indicate water level increases with pumping
- 3) Pumping by other wells in the area influence the GSWC water level measurements
- 4) Recharge between the HF and Barstow due to its dry channel characteristics and decades of pumping between 1950 and 1990
- 5) Export of domestic return flow to the Barstow WWTP located downstream near the Baja Centro boundary
- 6) Concentrated pumping within the narrow cross section, fault bounded area near GSWC's production wells and others
- 7) Pumping by nearby Agricultural interest that purchase excess Free Production Allowance from GSWC

- 8) Recharge lost to the north around Iron Mountain and through the Hinkely Gap, both toward Harper Lake

Table 4-3 of the Expert Report, Aquilogic described the various components of the estimated water budget for the Transition Zone. On this table, Aquilogic marked some entries as “Assumed”. The “assumed” entries include the subsurface outflows (2,000 AFY), and the Consumptive Use by phreatophytes (6,000 AFY). Subsurface outflows are not assumed. This value was established by the parties to the Judgment. The Consumptive Use by phreatophytes was determined by the Lines and Bilhorn study from 1996 and is considered representative of long-term conditions in the area. These amounts were agreed to by the parties and California Department of Fish and Wildlife.

The Expert Report states that Watermaster’s calculations of the amount of consumptive use by agriculture and phreatophytes are based on outdated studies and techniques and recommend the use of satellite remote sensing data to redefine the estimates of ET. The Expert Report recommends Watermaster consider installing a new stream gage near the Helendale Fault. If this is determined to be infeasible, the Expert Report recommends the use of remote sensing to approximate the Mojave River flow discharge, and the approximations can be calibrated with stream gage measurements at the existing USGS gages (Lower Narrows, Hodge, and Barstow).

In response to these recommendations, Watermaster has not refused and is not opposed to use of remote sensing technologies to improve and/or update estimates of consumptive use by agriculture and phreatophytes. Watermaster is working on studying the riparian vegetation using satellite-based remote sensing tools to update consumptive use values for Phreatophytes. However, there are limitations in the ability of remote sensing to accurately determine the quantity of river flows, particularly in the environment existing at the HF compounded with the relative infrequency of significant storm events resulting in detectable storm flow at the HF, as will be explained in Mr. Wagner’s declaration,

We note that making reliable measurements in wide sandy unstable channels like the Mojave River is challenging as the channel geometry, a critical element in stream flow calculation is constantly changing. Furthermore, the episodic occurrence of flow makes direct measurements, upon which reliable stream gage calculations also depend, hard to collect, as predicting when to mobilize staff to make a measurement is dependent on the episodic nature of the flow in the river. Static measurements (staff gage) or remote sensing techniques, will be highly unreliable in such environments. Regarding the use of remote sensing to approximate the Mojave River flow discharge, Watermaster will study this recommendation and implement this as appropriate or necessary.

Watermaster has met with representatives of GSWC several times in the past in a series of meetings that were interrupted by the Covid pandemic:

June 11, 2019, MWA Office 1-3 p.m. (MWA staff and GSWC staff and attorney)

October 23, 2019, MWA Office, 1:30 – 3:30 p.m. MWA staff and GSWC staff and attorney)

February 10, 2022, Helendale Field Trip, (Allison Febbo/Tony Winkle, Dave Peterson, WBE, with Toby Moore and GSWC staff)

Among issues raised by GSWC, were the installation of an additional stream gaging station, and geophysical investigations.

Subsequently, MWA, installed a stream gage at Hinkley Road near Hodge, upstream of the GSWC wells. MWA also conducted extensive geophysical investigations (approximately \$150,000) in the area of Helendale.

MWA also imported 1,994 AF of water in 2022 to address impacts to GSWC wells due to drought. That water was delivered to the Lenwood recharge site that benefits the area where GSWC wells are located. During 2023 MWA imported 9,229 AF to the Hodge and Lenwood recharge sites near GSWC wells. The total amount imported to the Mojave Basin Area was 94,690 AF (Jeffrey Ruesch, Watermaster Service Manager).

MWA is also working to expand its current Upper Mojave River Basin Model which will include the TZ, Centro, and Baja subareas. In June of 2024 we informed the Court that this work was in progress and scheduled to be completed by the end of 2024 (The Mojave Regional Groundwater Model). The model expansion will inform the estimates of flow into the Centro subarea, the water balance in the TZ, and provide tools for evaluating recharge and pumping scenarios for optimal basin management.

**Enclosures:**

**Exhibit A** – Alto Transition Zone Hydrographs 2024

**Exhibit B** – Centro Subarea Hydrographs 2024

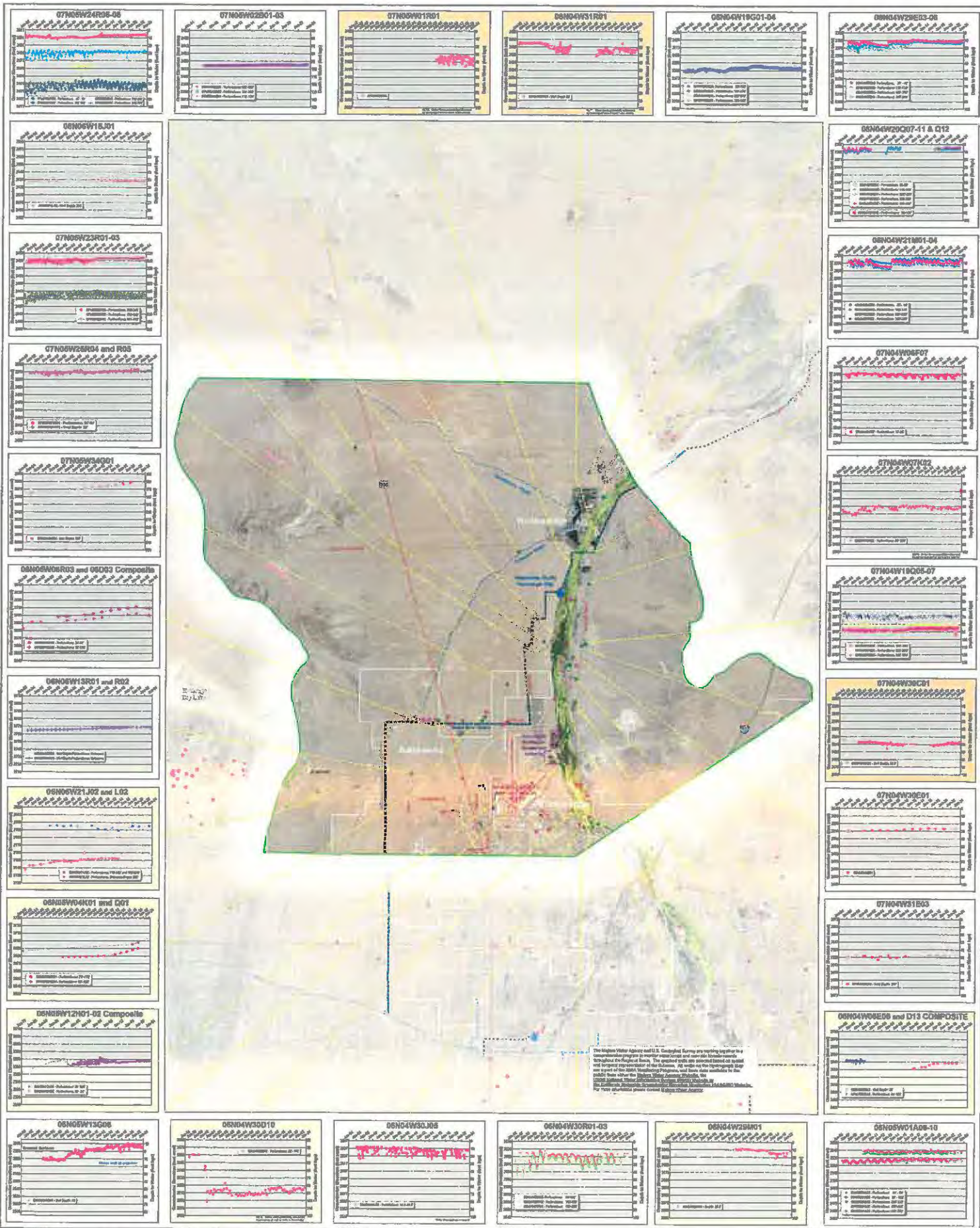
**Exhibit C** – Centro Subarea 08N04W21M01\_04 Hydrographs

**Exhibit D** – Centro Subarea 08N4W12Q01 Hydrograph

**Exhibit E** – Centro Subarea 08N03W04A07 Hydrograph

## **EXHIBIT A**





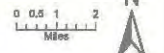
The Mojave Water Agency and U.S. Geological Survey are working together to improve our understanding of groundwater resources and provide better information to the public. This information is provided for informational purposes only and does not constitute a warranty of any kind. For more information, please contact the Mojave Water Agency.



- Graphed Wells
- MWA Monitoring Program Wells
- MWA Potable Pipeline
- MWA Recharge Pipeline
- CA Geologic Faults (CGS, USGS)
- USGS Perched Water Table

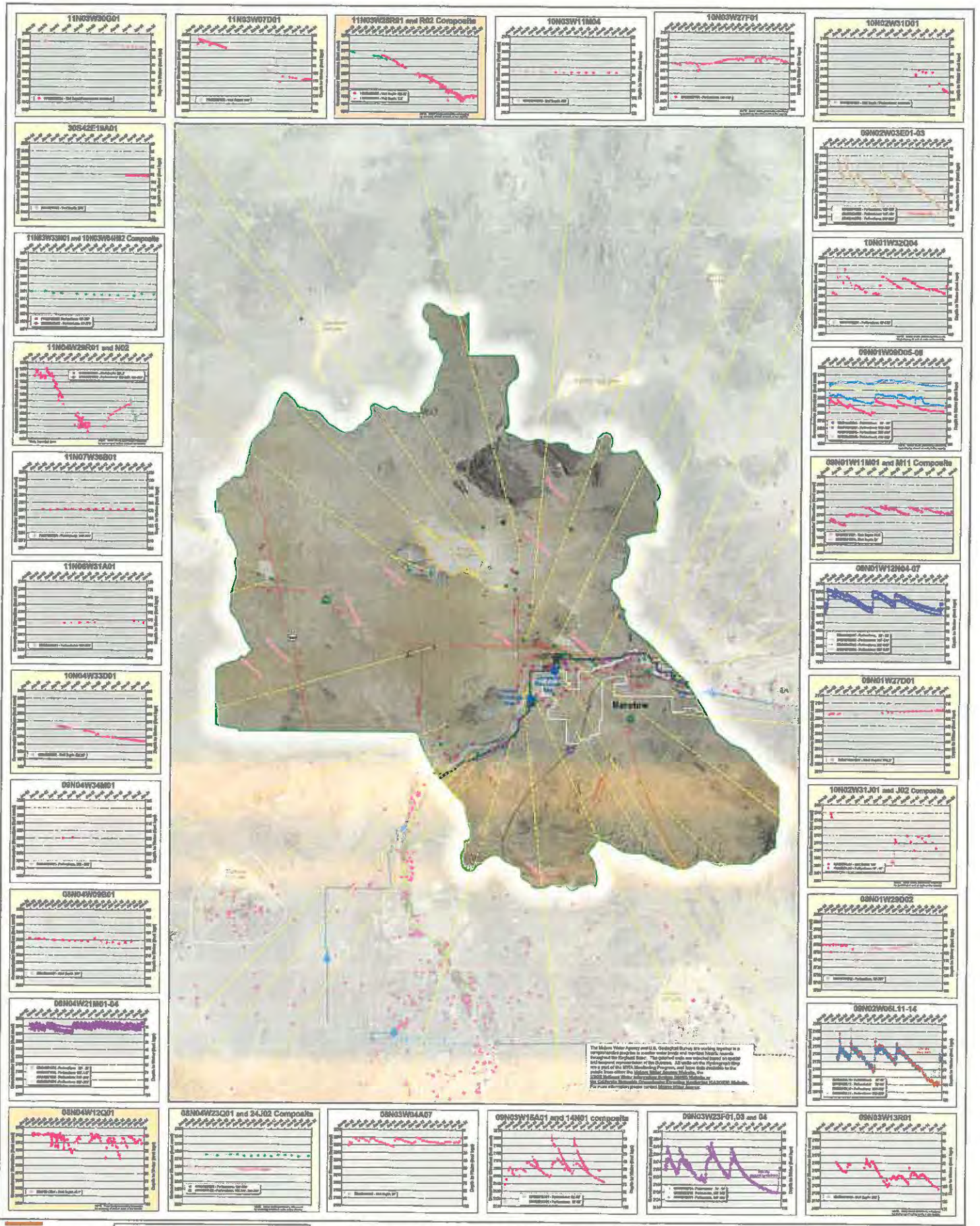
### Alto Subarea Transition Zone Hydrographs 2024

- Recent record
- Long-term record (begins ~1950 to ~1950)
- Vary long-term record (begins ~1920)



**EXHIBIT B**





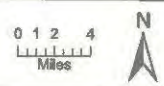
The Mojave Water Agency and U.S. Geological Survey are working together in a cooperative effort to monitor water levels and recharge basins around the Central Subarea. The hydrograph data was collected based on a long-term monitoring program of the Central Subarea. All wells on the Hydrograph Map are part of the MWA Monitoring Program, and have data available for public use over the Mojave Water Agency Website, the USGS National Water Information System (NWIS), and the USGS National Water Research Institute (NWRI). For more information please contact Mojave Water Agency.



- Grouted Wells
- MWA Monitoring Program Wells
- MWA Recharge Sites
- CA Geologic Faults (CGS, USGS)
- MWA Recharge Pipelines
- Exhibit H Riparian Habitat Area
- USGS Predicted Water Table

# Centro Subarea Hydrographs 2024

- Recent record
- Long-term record (begins ~1950 to ~1980)
- Very long-term record (begins ~1920)

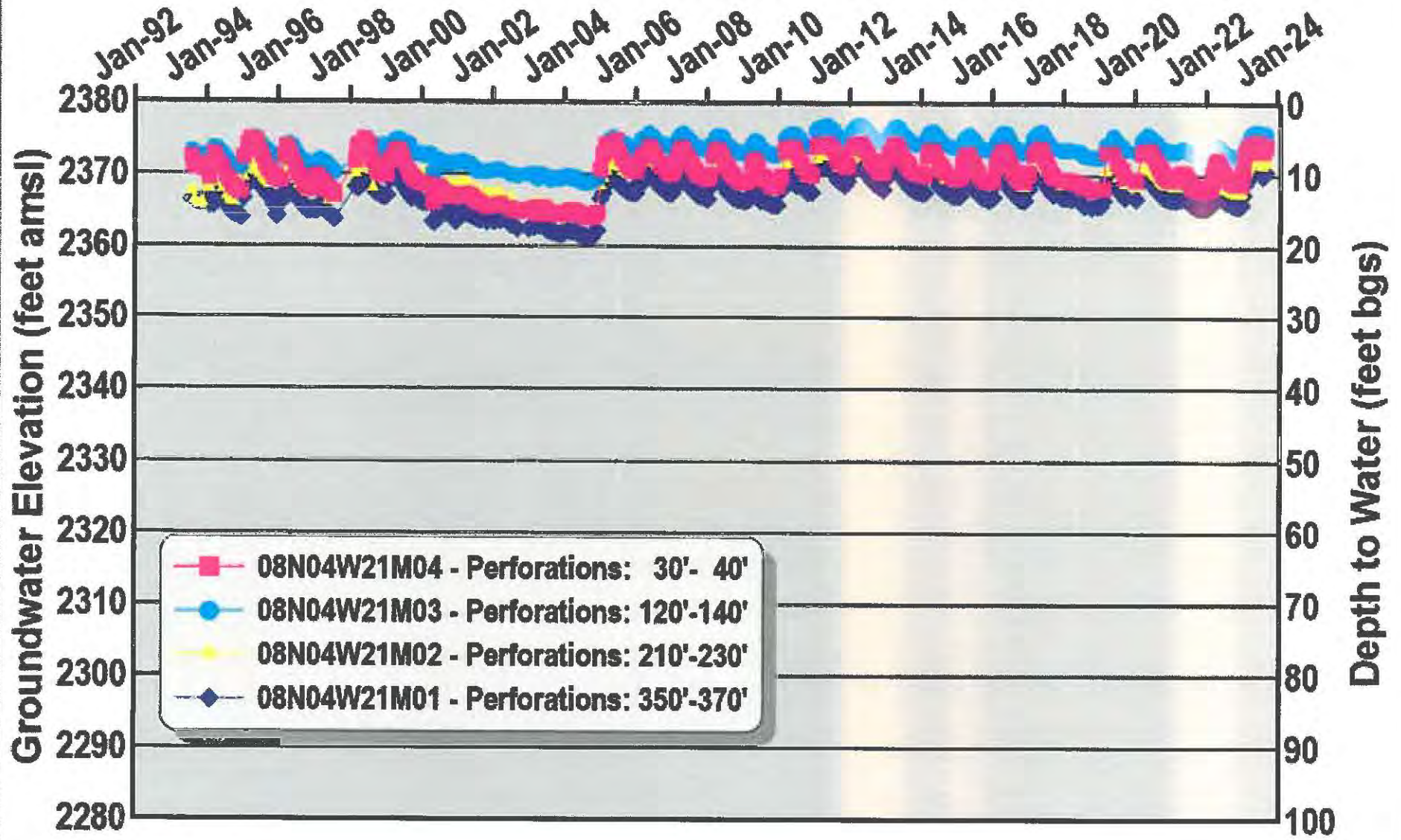


Data Sources:  
 MWA USGS  
 USGSNWIS  
 CGS Basins to 1987  
 Date: January 2024  
 Mojave Water Agency  
 Water Resources Department



## **EXHIBIT C**

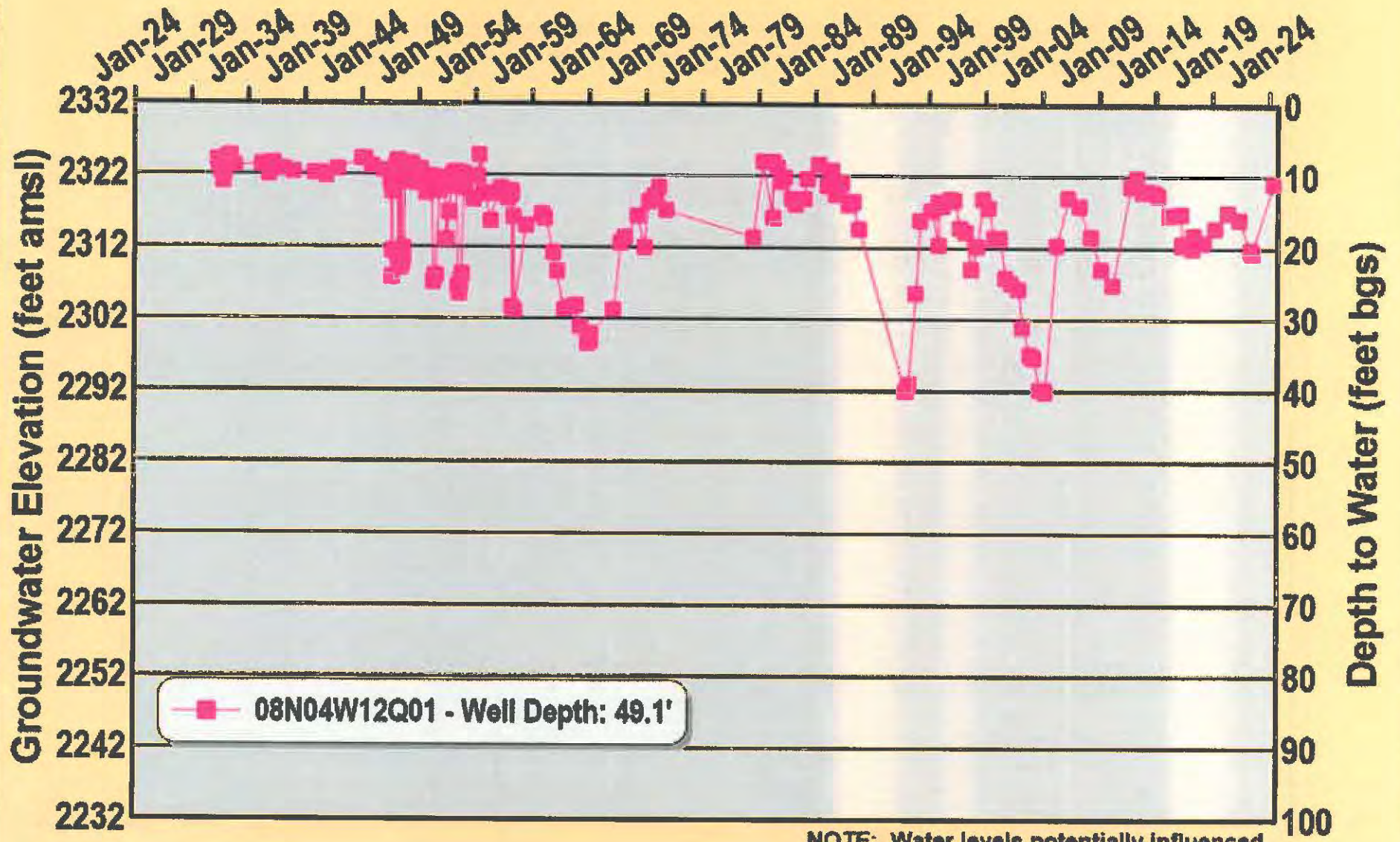
# 08N04W21M01-04



**EXHIBIT D**



# 08N04W12Q01

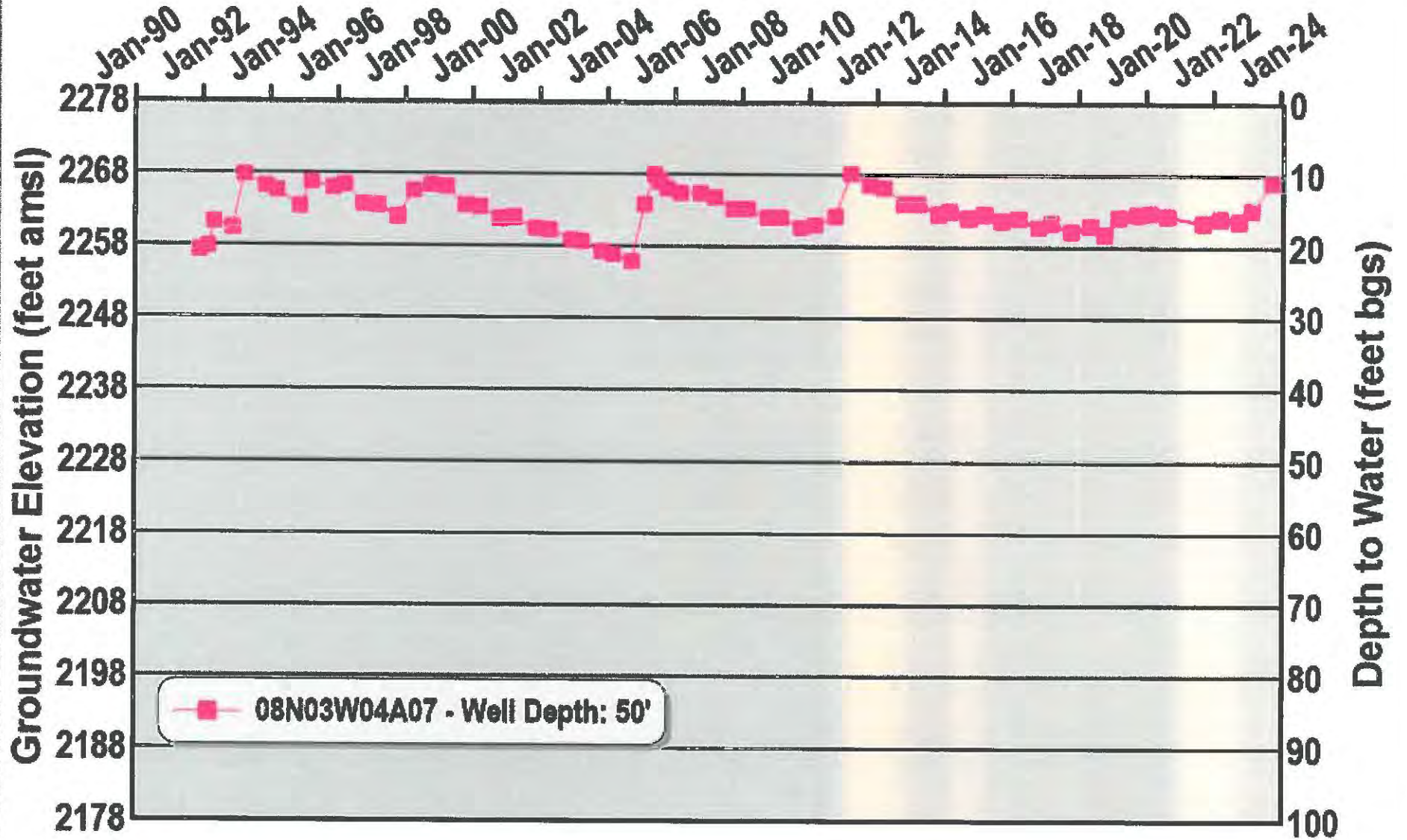


NOTE: Water levels potentially influenced by pumping of well or wells in the vicinity

**EXHIBIT E**



# 08N03W04A07

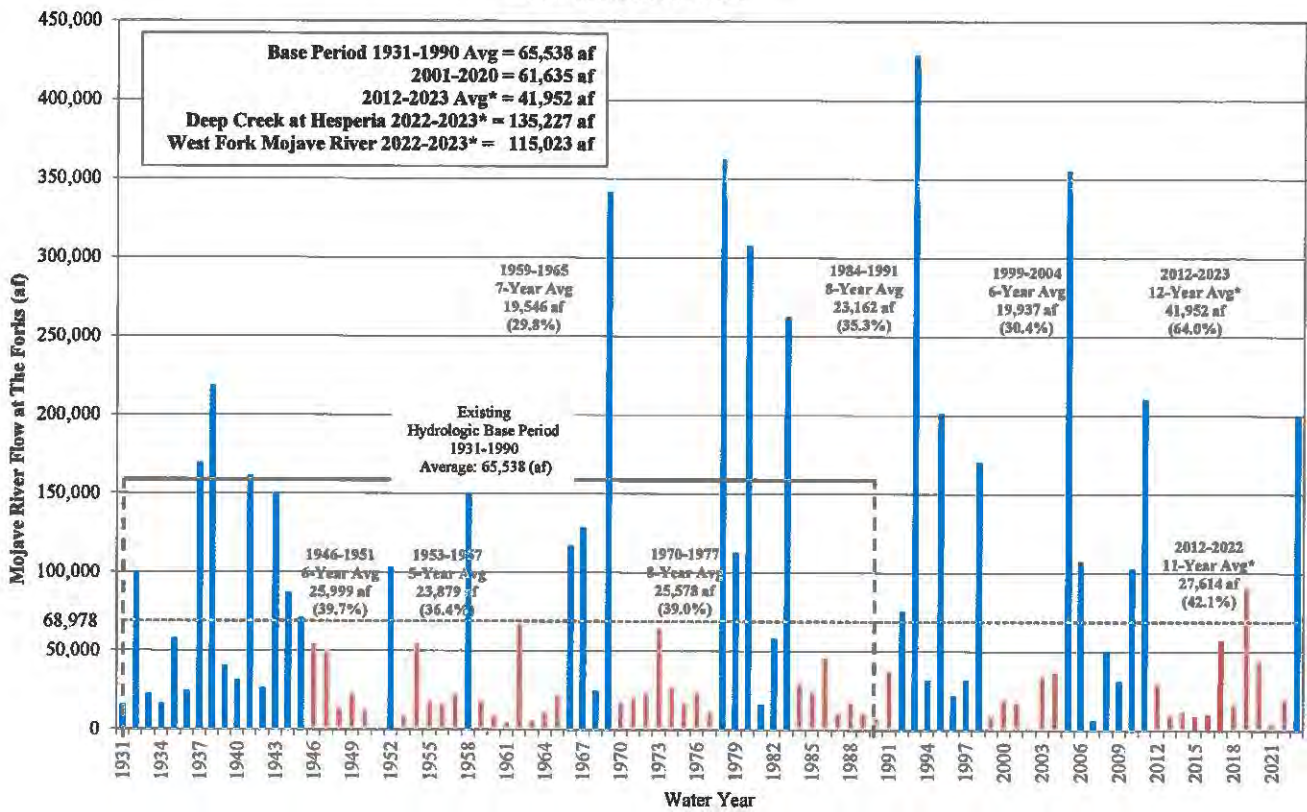


**EXHIBIT 2**



\* Preliminary data, subject to revision

### Mojave River Flow at The Forks Water Years 1931 - 2023



Note: Discharge of Mojave River at The Forks from the addition of values as reported from USGS stations at West Fork Mojave River Near Hesperia, CA (10261000), and Deep Creek Near Hesperia, CA (10260500) from 1931-1971, the greater of 10260500 and Mojave River Below Forks Reservoir Near Hesperia, CA (10261100) from 1972-1974, and the addition of West Fork Mojave River Above Mojave River Forks Reservoir Near Hesperia, CA (10260950) and 10260500 from 1975-Present

**EXHIBIT 3**

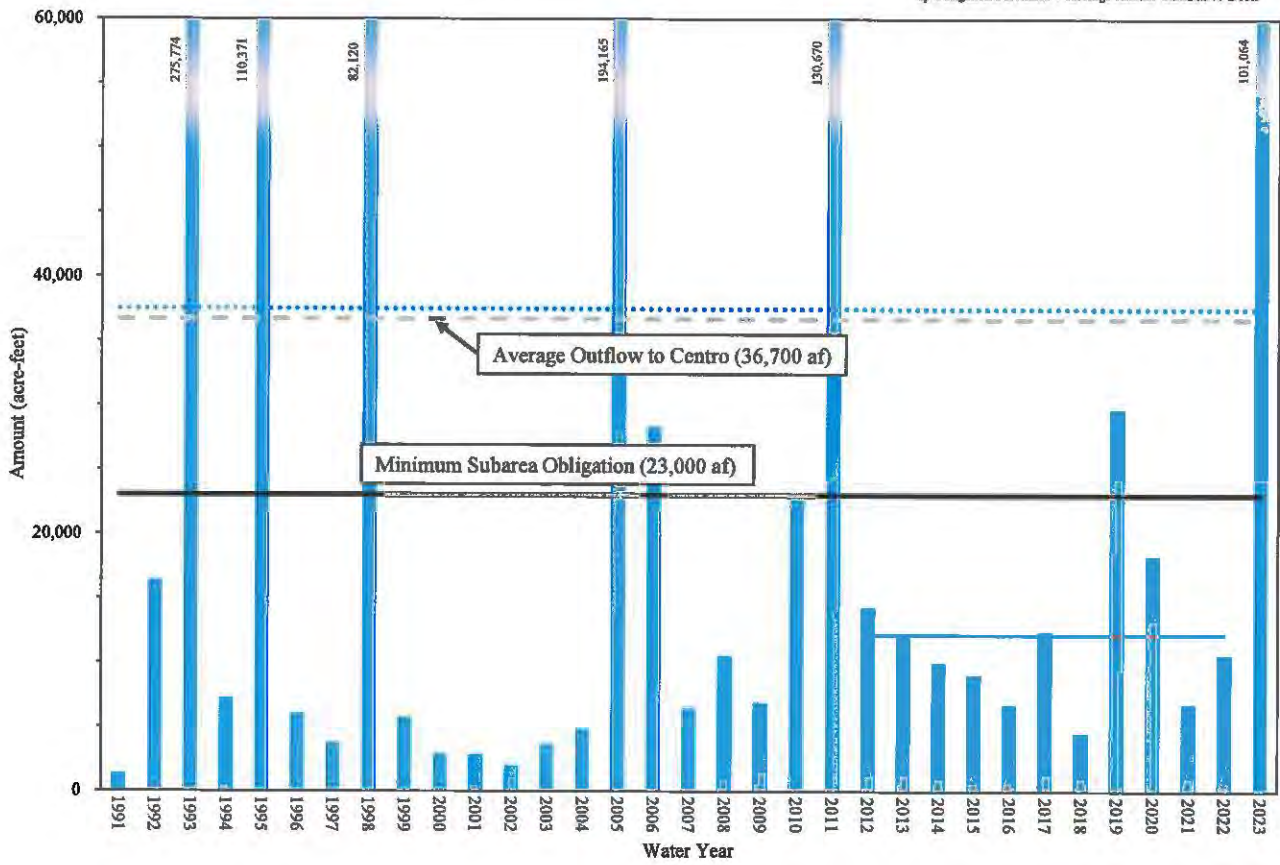
DRAFT

### Transition Zone Water Balance

- Surface and Subsurface Outflow to Centro
- Total Average Flow to Centro, 1991-2023 (37,500 acre-feet)\*
- Base Period Average Outflow to Centro, 1931-1990 (36,700 acre-feet)
- Average Annual Obligation in acre-feet (23,000 acre-feet)\*\*
- Average Transition Zone Outflow, 2012 - 2022 (12,200 acre-feet)

\* Equal to Transition Zone Surface Water Outflow + Transition Zone Subsurface Water Outflow + Average Annual Makeup Purchases

\*\* Equal to Base Flow + VVWRA Discharge + Subsurface Flow + Makeup Obligation Purchases + Average Annual Cumulative Debit



**EXHIBIT 4**

**Monitoring Method by Percentage of Production  
Transition Zone Producers**

<b>Water Year</b>	<b>Flowmeter</b>	<b>Pump Test<sup>1</sup> (Electrical Records)</b>	<b>Natural Gas Records</b>	<b>Estimates</b>	<b>Load Count by Truck</b>	<b>No Use, Property Sold 2020, BAP separated.</b>	<b>Total Production (AF)</b>
2023	90.1%	9.8%	0.01%	0.04%	0.04%	0.00%	11,221
2022	89.9%	10.1%	0.01%	0.03%	0.03%	0.00%	12,040
2021	87.9%	12.0%	0.01%	0.03%	0.03%	0.00%	11,804
2020	88.6%	11.3%	0.01%	0.04%	0.04%	0.00%	11,223
2019	89.2%	10.7%	0.01%	0.04%	0.04%	0.00%	10,789
2018	89.3%	10.7%	0.01%	0.03%	0.03%	0.00%	11,484
2017	90.7%	9.2%	0.01%	0.04%	0.04%	0.00%	10,129
2016	96.3%	3.6%	0.02%	0.04%	0.04%	0.00%	9,515
2015	99.1%	0.3%	0.02%	0.25%	0.04%	0.36%	9,139
2014	99.3%	0.4%	0.02%	0.22%	0.04%	0.00%	10,522
2013	99.2%	0.7%	0.04%	0.04%	0.02%	0.00%	10,287
2012	99.1%	0.7%	0.04%	0.04%	0.04%	0.01%	10,242

Information derived from data maintained in Watermaster producer records.

**Notes:**

- 1) Water production reported by producers with flow meters.
- 2) Single agricultural producers, non-stipulating party, Cardoza Appellent measures and reports consistent with Watermaster rules



**EXHIBIT 5**

**Centro Subarea  
Estimated Water Balance  
(2012-2022)**

<b><u>Inflow</u></b>	<b><u>Flow (AF)</u></b>	<b><u>Notes</u></b>
Recharge	12,238	(1)
Return Flow	4,623	
<b><u>Total Inflow:</u></b>	<b>16,861</b>	
<b><u>Outflow</u></b>		
Baja Subsurface	1,462	(2)
Baja Surface	19	(3)
Phreatophytes	3,000	(4)
Production	20,046	(5)
<b><u>Total Outflow:</u></b>	<b>24,527</b>	
Difference	<b>(7,666)</b>	

**Notes:**

1. Derived from Figure 3-10 Watermaster Annual Report.
2. USGS Stamos 2001, page 87.
3. USGS stream flow at Barstow from 2012 to 2022.
4. USGS Lines and Bilhorn 1996.
5. Average verified production by Watermaster for 2012-2022 and includ

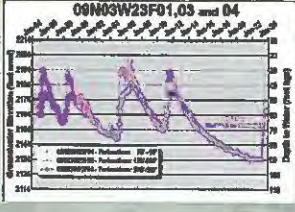
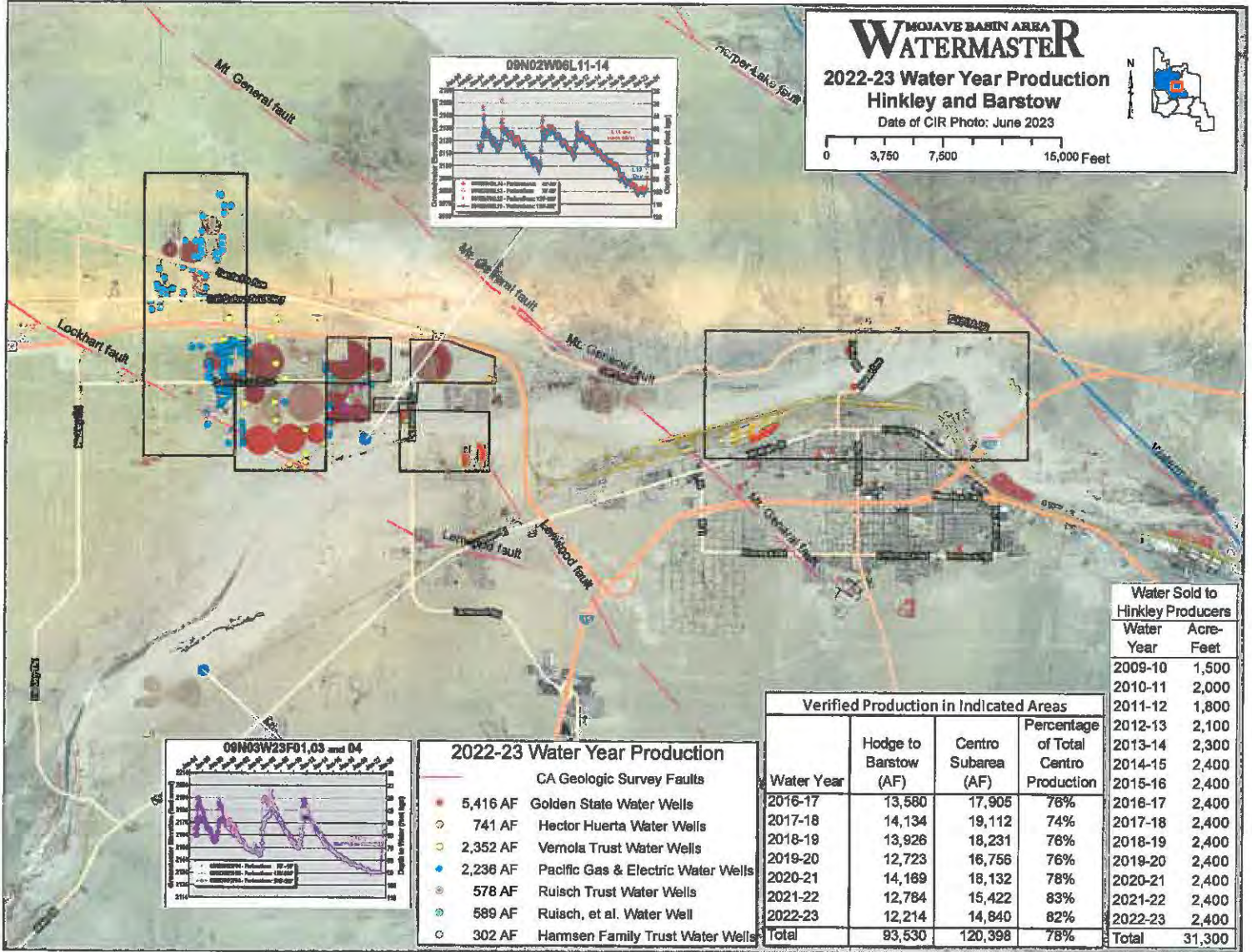
**EXHIBIT 6**

# MOJAVE BASIN AREA WATERMASTER

## 2022-23 Water Year Production Hinkley and Barstow

Date of CIR Photo: June 2023

0 3,750 7,500 15,000 Feet



**2022-23 Water Year Production**

CA Geologic Survey Faults

- 5,416 AF Golden State Water Wells
- 741 AF Hector Huerta Water Wells
- 2,352 AF Vernola Trust Water Wells
- 2,238 AF Pacific Gas & Electric Water Wells
- 578 AF Ruisch Trust Water Wells
- 589 AF Ruisch, et al. Water Well
- 302 AF Hamsen Family Trust Water Wells

**Verified Production in Indicated Areas**

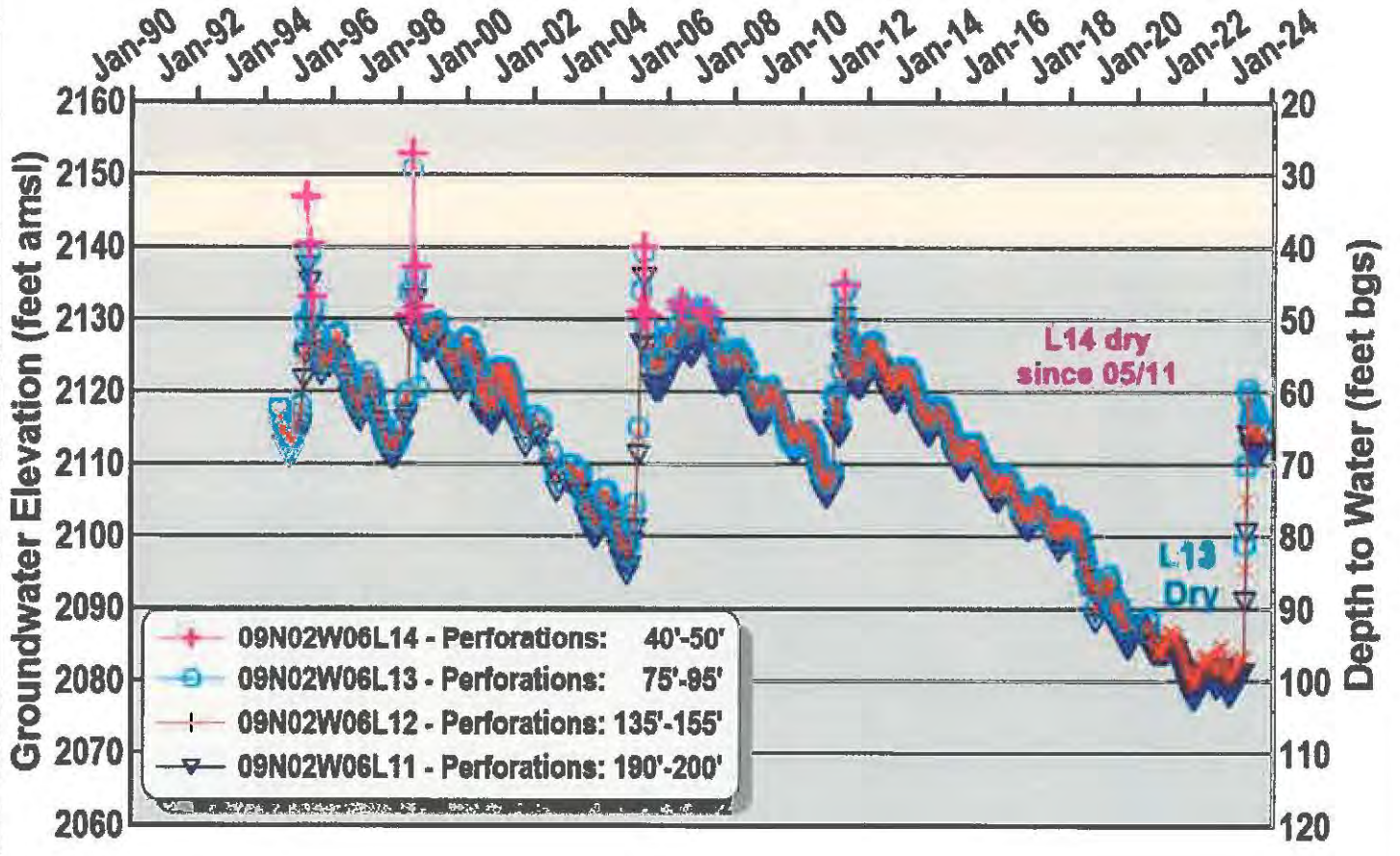
Water Year	Hodge to Barstow (AF)	Centro Subarea (AF)	Percentage of Total Centro Production
2016-17	13,580	17,905	76%
2017-18	14,134	19,112	74%
2018-19	13,926	18,231	76%
2019-20	12,723	16,756	76%
2020-21	14,189	18,132	78%
2021-22	12,784	15,422	83%
2022-23	12,214	14,840	82%
<b>Total</b>	<b>93,530</b>	<b>120,398</b>	<b>78%</b>

**Water Sold to Hinkley Producers**

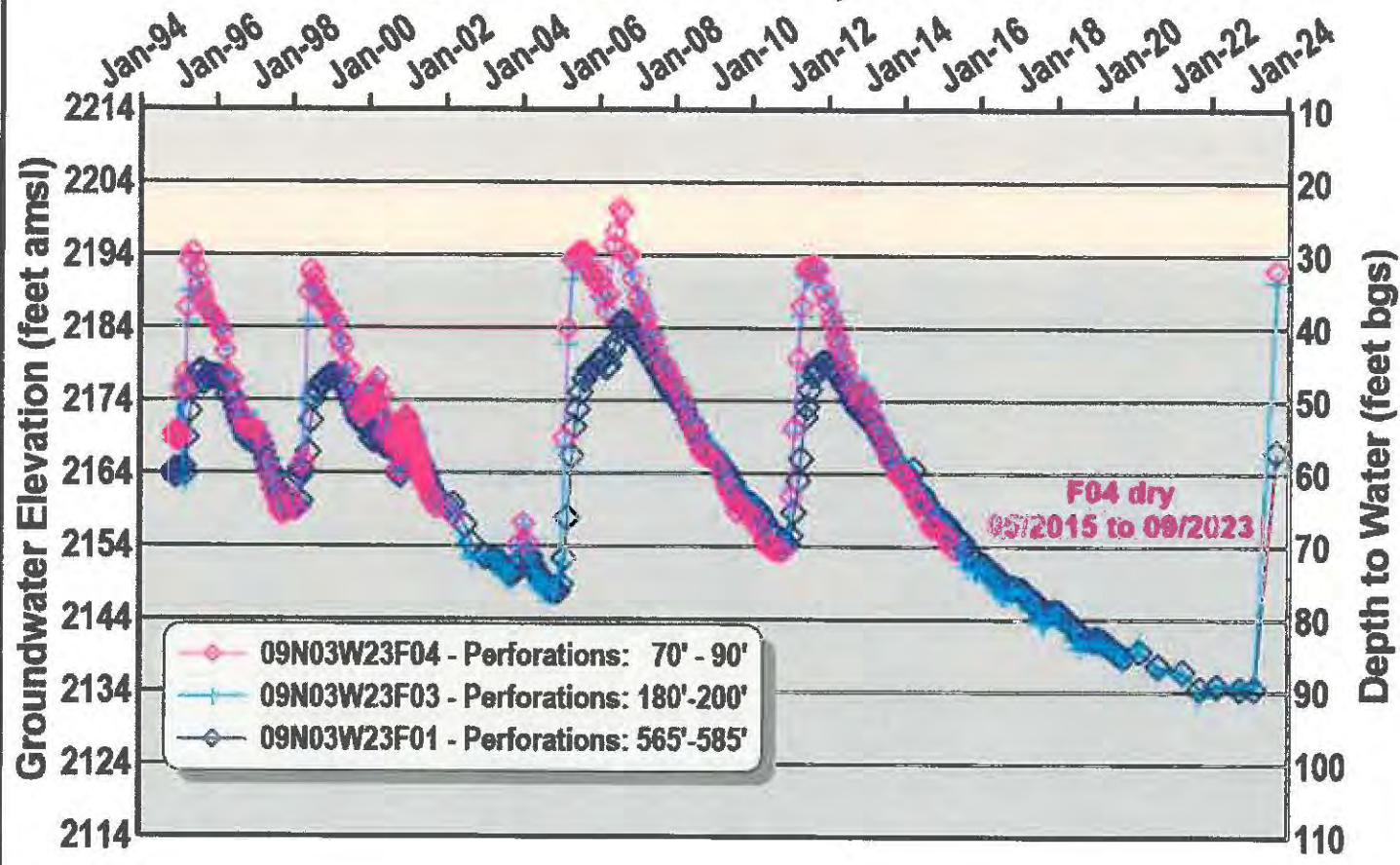
Water Year	Acres-Foot
2009-10	1,500
2010-11	2,000
2011-12	1,800
2012-13	2,100
2013-14	2,300
2014-15	2,400
2015-16	2,400
2016-17	2,400
2017-18	2,400
2018-19	2,400
2019-20	2,400
2020-21	2,400
2021-22	2,400
2022-23	2,400
<b>Total</b>	<b>31,300</b>



# 09N02W06L11-14

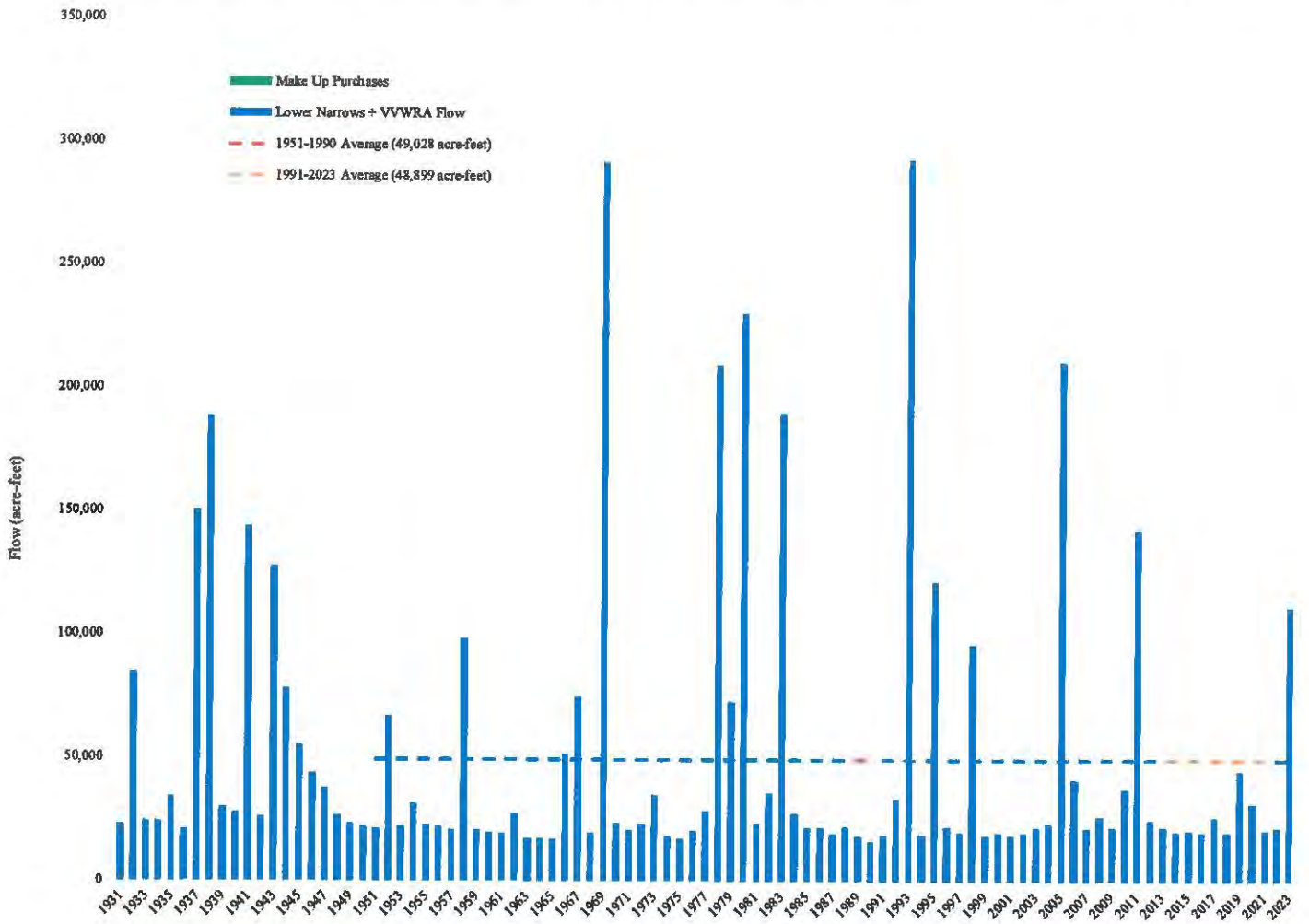


# 09N03W23F01,03 and 04



**EXHIBIT 7**

### Streamflow at Lower Narrows + VVWRA Discharges to the Transition Zone (Includes Make-Up Obligation Purchases)



Note: Based on USGS Stream gage records, VVWRA discharges, and Make-Up Obligation Purchases.



**EXHIBIT 8**

# **MOJAVE BASIN AREA WATERMASTER**

## **SUMMARY REPORT**

### **SUBSURFACE FLOW BETWEEN SUBAREAS**

**ROBERT C. WAGNER, P.E.  
WATERMASTER ENGINEER  
FEBRUARY 22, 2006**

## **Introduction**

The Judgment After Trial dated January 10, 1996 (Judgment) recognized that additional information would need to be obtained in order to establish certain physical characteristics of the Mojave Basin Area. A specific finding at trial concerned the hydrologic interrelationship between the five Subareas comprising the Mojave Basin Area (Figure 1). One component of the relationship is the subsurface flow between Subareas which is used to determine the annual obligations that one Subarea owes to another.

The estimates of the subsurface flow between Subareas made at the time of trial were based on the best information available. Mojave Water Agency (MWA) was directed to undertake studies including establishing monitoring wells for the purpose of estimating the actual subsurface flow, and for future monitoring. Watermaster was directed to report back to the Court within 10 years with a recommendation for monitoring the subsurface flow in the future, and to determine whether or not a revision to the historic estimate was needed.

## **Background**

MWA began installing monitoring wells in various locations as early as 1993 for the purpose of understanding the hydrology of the Mojave Basin Area, and to comply with various parts of the Judgment. As of December 2005, MWA has installed over 100 wells and spent in excess of \$3,000,000 on monitoring well installation and over \$4,000,000 on various studies related to groundwater recharge and groundwater movement. These studies include a numerical groundwater model prepared by USGS, age dating of water, a comprehensive investigation of the Transition Zone, Este Subarea, numerous USGS reports and others.

MWA recently prepared four studies to investigate the subsurface flow between the Subareas. The purpose of the studies was to collect data, identify data gaps, determine historic groundwater gradients, existing gradients and evaluate changes over time. This report to Watermaster, summarizes the findings from the MWA studies, and provides a recommendation for establishing the estimated flow between Subareas as required by the Judgment. The estimates established by the Judgment of subsurface flow are shown on Figure 2.

## **Methodology**

Generally, the only anthropogenic factor that can affect the subsurface flow between Subareas is pumping, since the lowering of the hydraulic head in the aquifer by man made influences will affect the quantity and direction of groundwater flow. The Judgment envisioned that we would determine the amount of water that historically flowed between the Subareas and ensure that this flow was maintained in the future. The best way accomplish this goal is to establish the historic groundwater gradient across a Subarea boundary and to maintain the gradient. Within certain limits, if the gradient remains unchanged, so will the flow across a given boundary. Consequently it



is not critical to actually know what the subsurface flow historically was; rather it is necessary only to know that the flow has not changed. This is accomplished by computing and comparing the historic gradient to the present one at a given location.

The flow estimates for each Subarea can be estimated by Darcy's Law from the equation:

$$Q = KiA$$

where:

- Q = discharge in ft<sup>3</sup>/day (groundwater flow across the boundary)
- K = hydraulic conductivity in ft/day (hydraulic properties)
- i = gradient or slope in ft/ft
- A = cross sectional area in ft<sup>2</sup>

Historic and present day water level data was collected for various wells considered to be representative of the generalized groundwater conditions on either side of a Subarea boundary. The data was evaluated and groundwater contours were developed in order to determine the gradient. The hydraulic properties of the aquifer were estimated from various sources including previous studies and investigations, well drillers logs and pump test data, as available. The geometry of the basin area at each boundary was approximated to obtain a cross sectional area. The flow Q, is determined by the given equation.

The actual flow at each Subarea boundary is difficult to calculate with great certainty due to the complexities of the geology of the basin, the magnitude of the cross sectional area, and relative unknowns like the thickness of the water bearing sediments and the hydraulic conductivity of the various aquifer units. However, reasonably reliable water level data is available, so a comparison of past and present conditions affecting the flow at the Subareas boundaries can be made.

### **Discussion - Flow Between Subareas**

There are five boundaries where there exists a Subarea obligation pursuant to the Judgment (Figure 2). The following discussion evaluates each of the obligations and the estimated historic and current discharge.

#### **Alto - Centro**

The subsurface flow obligation from Alto to Centro is 2,000 acre-feet per year (1935-1960) which was based on the estimate made by Department of Water Resources, Bulletin 84, 1967. The estimate contained in Bulletin 84 represented the subsurface flow between the Upper and Middle basins; this is now considered the boundary between the Transition Zone (Alto) and Centro. Most of the subsurface flow contribution from Alto to Centro occurs along the Transition Zone boundary with Centro within the upper part of the aquifer.

Groundwater contours and a groundwater gradient were determined across the Alto to Centro boundary, based on 153 data points for 1958 (Figure 3). While it is generally accepted that overdraft commenced in the 1950's, data prior to 1958 is not readily obtainable. As of 1958, the estimated gradient was 0.0035 feet per foot, or 3.5 feet of elevation drop for every 1,000 feet of horizontal travel (about 18.5 feet per mile), meaning there was groundwater flow in the direction of Alto to Centro.

The groundwater gradient determined for 1998 did not change from 1958, meaning that there had been little change in the average subsurface flow between Alto and Centro (Figure 4). Whatever the subsurface flow was in 1958 it was unchanged in 1998.

Further analysis showed an increase (steeper) in the gradient from 1998 to 2004, but it is not known whether or not the change was related to dry weather conditions or to man made influences like pumping. It is more likely that the changes seen in this six year period were the result of nature as pumping generally declined in Centro during the past 10 years. We also expect that after the storms of 2005, that water levels will have recovered to the previous level and the gradient will again be as it was in 1998.

USGS (Stamos et al, 2001) estimated the flow across the Transition Zone boundary to be 1566 acre-feet for the sixty year base period 1931-1990. The USGS work involved the development of a numerical groundwater model which evaluated all of the components of water inflow and outflow and attempted to match up predicted water levels with actual measurements. Given the uncertainty in the measurements, data, and estimated inputs, the predicted value is reasonably close to the historic estimate of 2,000 acre-feet. More importantly, the gradient analysis showed that the gradient was unchanged over a forty year period, 1958-1998 indicating a stable relationship at the Subarea boundary. Consequently, there is not a reason to recommend a change in the estimated subsurface flow from Alto to Centro.

#### **Este - Alto**

The subsurface flow from Este to Alto was estimated to be 200 acre-feet per year at the time of trial. USGS (Stamos et al, 2001) estimated the discharge from Este to Alto to be 995 acre-feet during the 1931-1990 period. Webb (2000) estimated the discharge to be about 850 acre-feet. DWR (Bulletin 84, 1967) estimated 100 acre-feet per year. MWA (Napoli-Laton-Eckhart 2006) has estimated a possible range based on a variety of sources, but very limited data, that the flow could be less than 100 acre-feet and up to about 7,000 acre-feet per year. The MWA study indicates that the actual amount is likely at the lower end of the range.

An analysis of Watermaster records and water levels wells in Alto near the Alto-Este boundary indicate that the upper range is probably not more than about 1,000 acre-feet.

Este is divided along the Helendale fault, with Fifteen Mile Valley to the southwest and Lucerne Valley to the Northeast. Water level data suggests that the subsurface flow from Este to Alto is from Fifteen Mile Valley and not Lucerne. Water levels in Fifteen Mile Valley appear to be stable suggesting that inflow and outflow are about equal.

There is insufficient data to properly evaluate the historic flow from Este to Alto, but it would appear that the flow is in excess of the 200 acre-feet per that is indicated in the Judgment.

The best information we have suggests that the gradient in this area is unchanged and consequently the average subsurface flow, whatever it is, also remains unchanged over a 47 year period (Figures 5 and 6). The actual value is probably closer to 1,000 acre-feet per year which is consistent with the USGS (2001) and Webb (2000) estimates and falls within the reasonable range of flow as estimated by the 2006 MWA study. However given that the amount is relatively small the area in question is very large and more importantly, based on the 2006 MWA investigation, the gradient is unchanged, We are not recommending that the subsurface flow estimate in the Judgment be changed from the current estimate of 200 acre-feet per year.

#### **Centro - Baja**

The subsurface flow obligation from Centro is Baja is 1,200 acre-feet per year based on estimates made at the time of trial by various researchers and unpublished reports. Department of Water Resources, Bulletin 84, 1967, estimated the subsurface discharge between the Middle and Lower Basins to be 2,000 acre-feet, but the boundary for that study was at Barstow, several miles upstream from the Centro-Baja boundary. Webb (2000) concluded that 1,200 acre-feet per year was a reasonable estimate.

USGS (Stamos et al 2001) estimated the average flow to be 1,462 acre-feet for the sixty year period 1931-1990, similar to the previous estimates. The groundwater gradient in this area has changed slightly from 0.0045 ft/ft in 1960 (23.75 ft per mile) to 0.0050 ft/ft in 2004 (26.4 feet per mile) (Figures 7 and 8). The change is a result of declining water levels in Baja as water levels in Centro along the boundary have been relatively stable. Importantly, the gradient is unchanged since 1993. Consequently, we are not recommending a change in the estimated flow from Centro to Baja, which is to remain at 1,200 acre-feet.

#### **Oeste - Alto**

The subsurface flow from Oeste to Alto is indicated in the Judgment to be 800 acre-feet. USGS (Stamos 2001) and Webb (2000) estimated this value to be 1,162 acre-feet and 350 acre-feet respectively. The boundary line between Alto and Oeste covers a large distance and the actual boundary can not be readily identified in the subsurface. There is only sparse water level data in the area of the boundary to evaluate historic conditions. The available data for current conditions is also limited. The water supply conditions of Oeste are also not well understood. Preliminary evaluation of the available data suggests that there is insufficient information to make a recommendation. The data we have collected suggests that the subsurface relationship between Oeste and Alto has not changed significantly, but the data is inconclusive.

MWA is currently investigating the water supply conditions in Oeste and preparing a comprehensive evaluation of the hydrogeology. That effort will help support Watermaster recommendations for water management in Oeste and is expected to be mostly completed by November of 2006. Consequently, we would recommend that Watermaster make no determination about the Oeste to Alto subsurface flow until we have compiled more data; for now, the subsurface flow will remain 800 acre-feet as



indicated in the Judgment. We will report back to Watermaster in the Fall of 2006 and to the Court in Spring of 2007.

### **Baja - Afton**

There is an obligation of 400 acre-feet from the Baja Subarea to Afton based on an estimate of the long term average base flow measured at the USGS gage at Afton. The gage is located several miles downstream of the Baja Subarea and MWA administrative boundary. While the gage data shows a continuous reduction in base discharge, it is not clear how Watermaster would implement a program to satisfy a base flow obligation at Afton.

Unlike the Alto-Centro surface base flow obligation which is quantifiable and measurable at the USGS gage at Lower Narrows, the base flow from Baja across the Agency boundary has no surface expression. It would be almost impossible to determine and measure on an annual basis. It is further unclear how Watermaster would provide make up water and to whom. In order to comply Watermaster would have to cause a pipeline to be built that delivered supplemental water to an arbitrary point in the desert. The benefits of delivering such supplemental water are unknown. We recommend that Watermaster ask the Court to relieve Baja of the obligation of maintaining base flow of 400 acre-feet at Afton.

### **Conclusion**

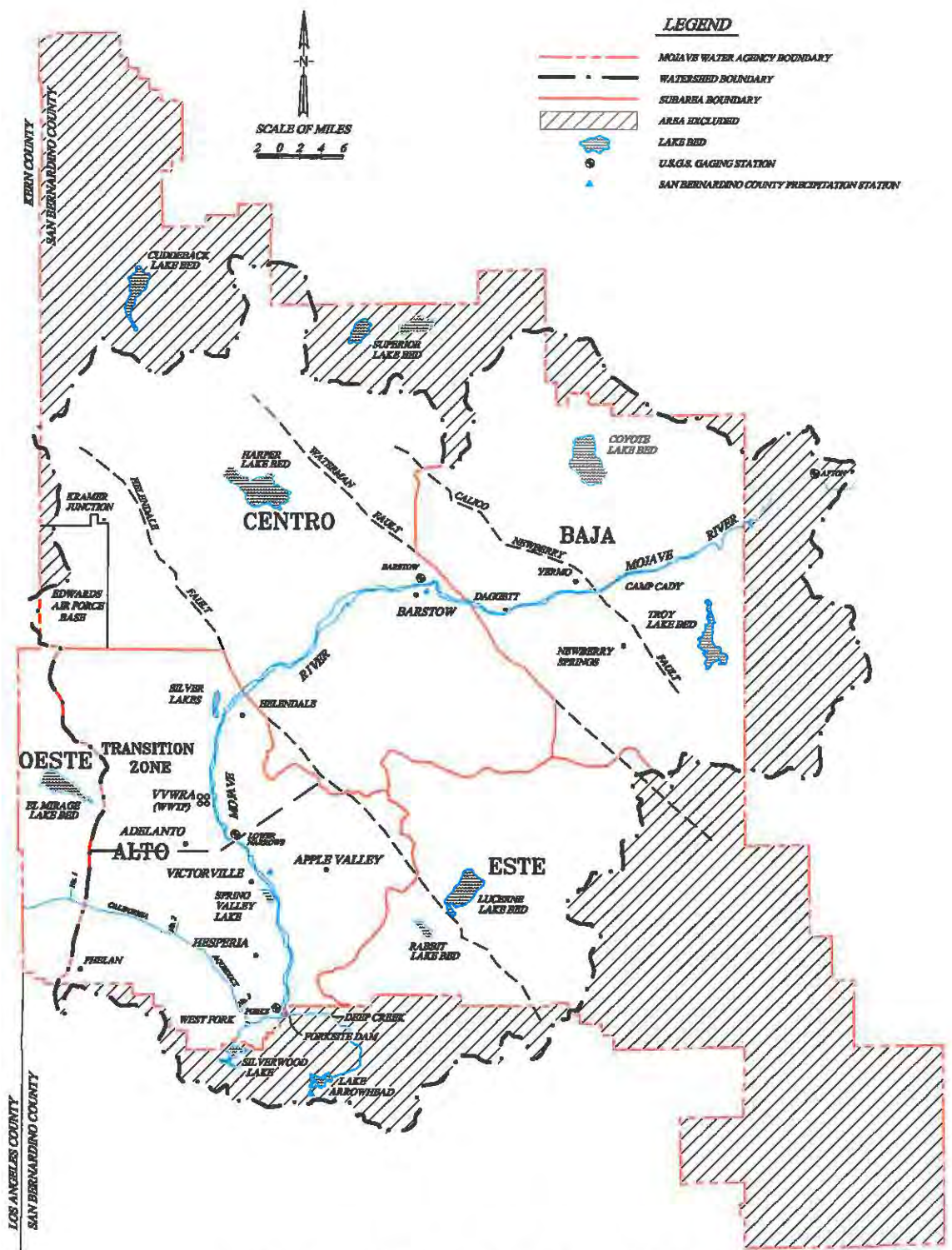
The methodology for determining changes in the subsurface flow between Subareas, as set forth above is also an acceptable method for evaluating future changes. By continuing to monitor the groundwater gradient at the Subarea we will be able to determine when a change in the subsurface flow has occurred. A detail presentation of the methodology as well as the data relied upon for this analysis is contained in three documents prepared by MWA and California State University Fullerton called, Groundwater Flow Between Subareas Report (Final Drafts, February 2006) Alto-Centro; Centro-Baja; Este-Alto. A fourth document on the Oeste-Alto boundary will be prepared as a final draft in Fall 2006. These documents are available online at [www.mojavewater.org](http://www.mojavewater.org), and on CD-ROM by contacting Valerie Wiegenstein, Watermaster Services Manager, or Lance Eckhart, Senior Hydrogeologist.

We should also note that additional investigations to determine the actual amount of subsurface flow between Subareas would require a significant expenditure of funds and would not lead to a significantly better determination. We have estimated that a minimum of eight to ten additional monitoring wells would be needed to help improve our understanding of the amount of flow that is occurring. The additional monitoring wells would cost somewhere in the range of 3-5 million dollars for design and installation. We do not feel that such expenditure is warranted.

The recommended subsurface flow amounts for each Subarea boundary are shown on Figure 9. Further, we recommend that the amount shown, continue to be assumed to have satisfied any indicated subsurface obligation on an annual basis.



**FIGURE 1**  
**MAP OF**  
**MOJAVE BASIN AREA**



**LEGEND**

- MOJAVE WATER AGENCY BOUNDARY
- WATERSHED BOUNDARY
- SUBAREA BOUNDARY
- AREA EXCLUDED
- LAKE BED
- U.S.G.S. GAGING STATION
- SAN BERNARDINO COUNTY PRECIPITATION STATION

SCALE OF MILES  
0 2 4 6

**CENTRO**

**BAJA**

**OESTE**

**ESTE**

**MOJAVE BASIN AREA**

KERN COUNTY  
SAN BERNARDINO COUNTY

LOS ANGELES COUNTY  
SAN BERNARDINO COUNTY

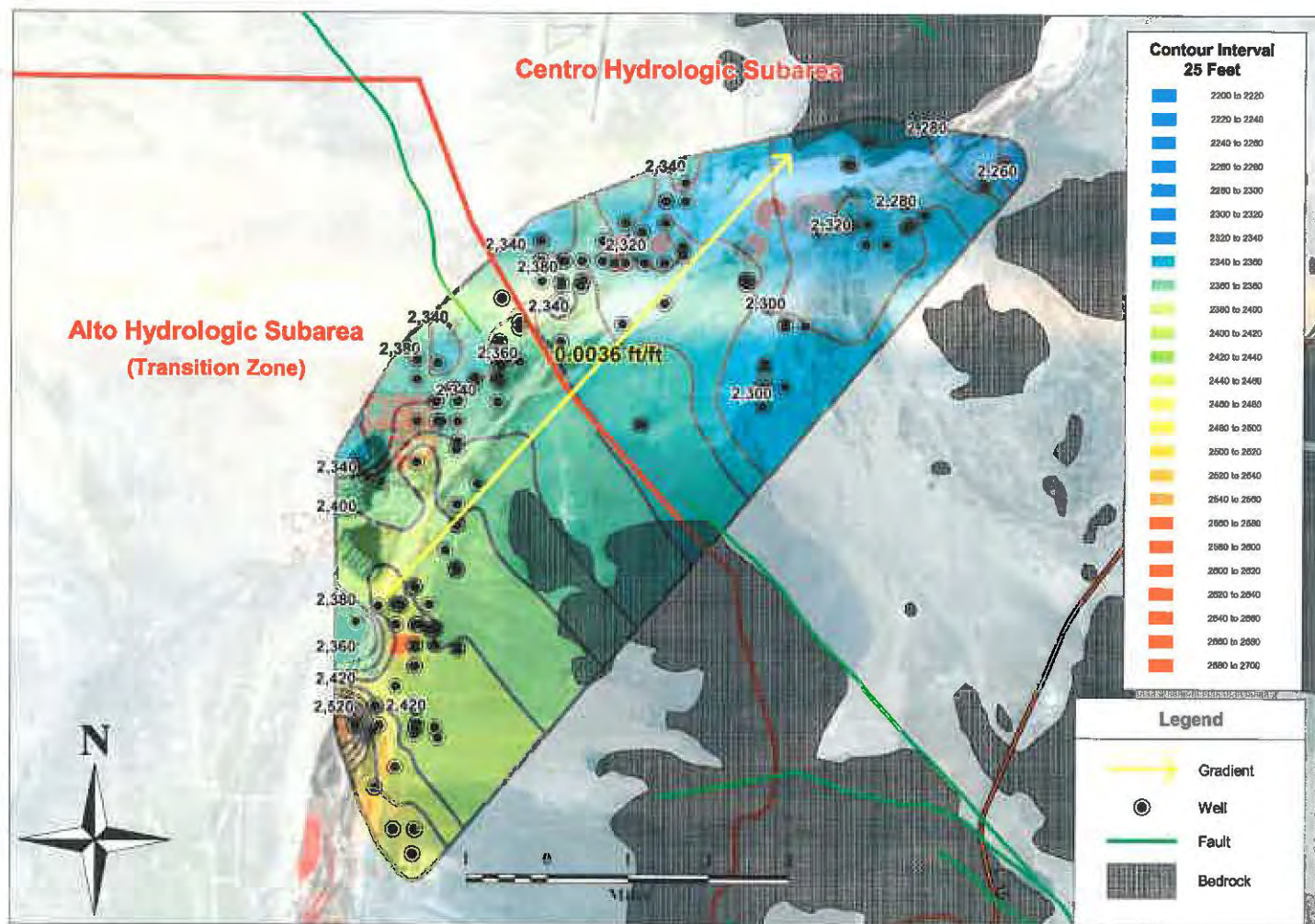
**FIGURE 2**  
**CHART SHOWING**  
**CURRENT**  
**SUBSURFACE FLOW BETWEEN SUBAREAS**

## Current Subsurface Flow Obligations Between Subareas





**FIGURE 3**  
**1958 GROUNDWATER GRADIENT**  
**ALTO TO CENTRO**



**Figure 3: 1958 Groundwater Gradient – Alto to Centro**

**FIGURE 4**  
**1998 GROUNDWATER GRADIENT**  
**ALTO TO CENTRO**

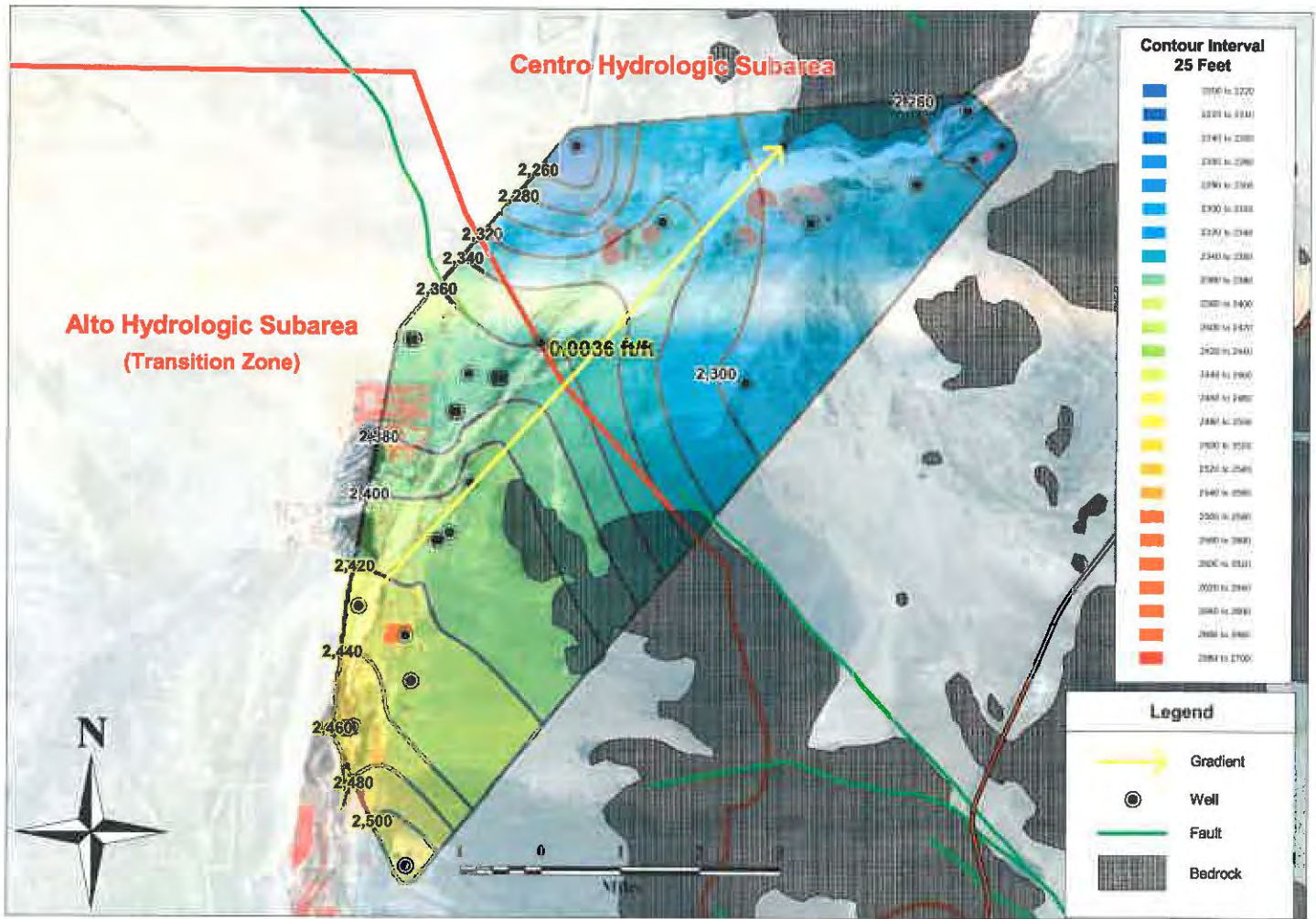
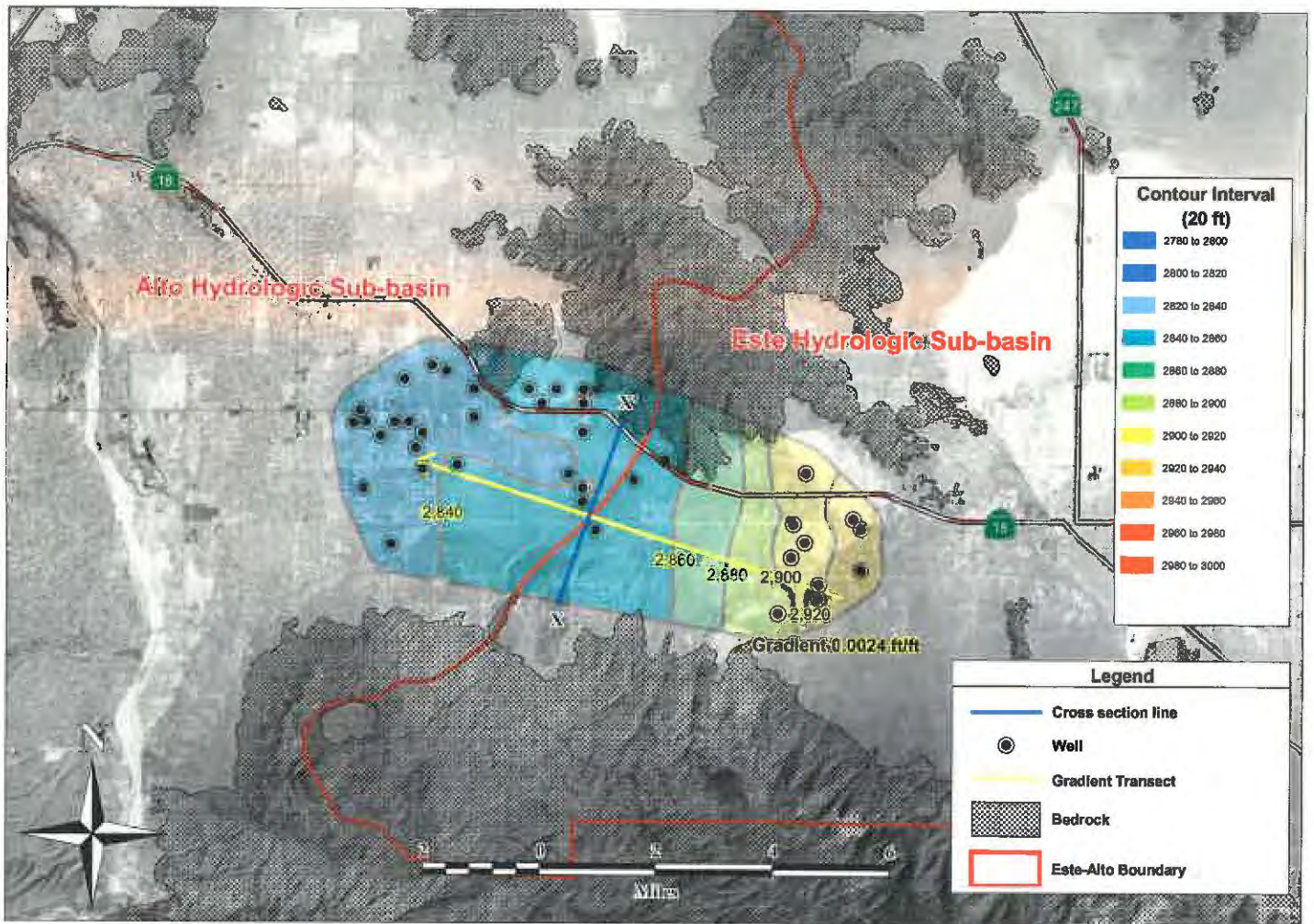


Figure 4: 1998 Groundwater Gradient – Alto to Centro



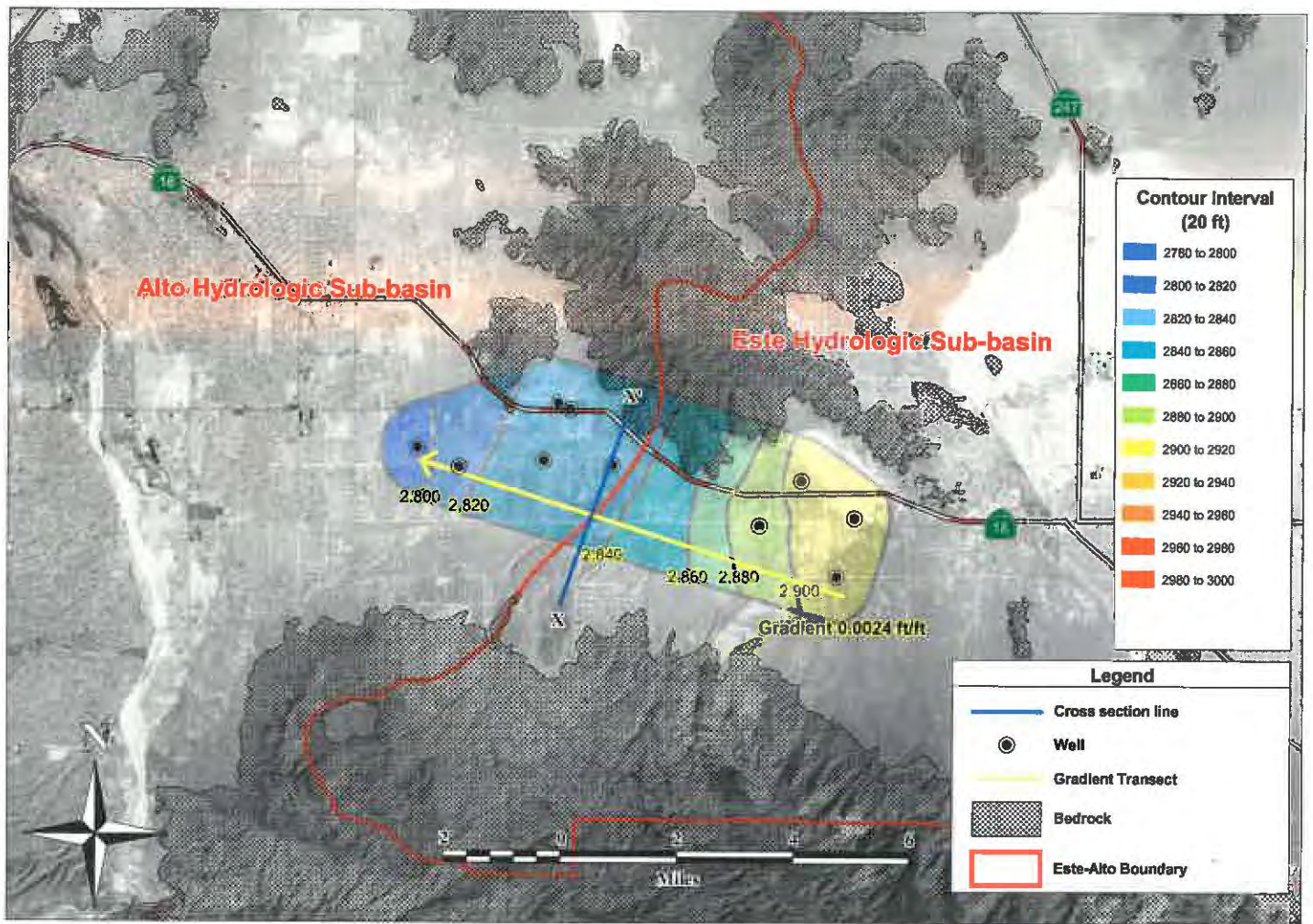
**FIGURE 5**  
**WINTER 1957 GROUNDWATER GRADIENT**  
**ESTE TO ALTO**



**Figure 5: Winter 1957 Groundwater Gradient – Este to Alto**

**FIGURE 6**  
**SPRING 2004 GROUNDWATER GRADIENT**  
**ESTE TO ALTO**

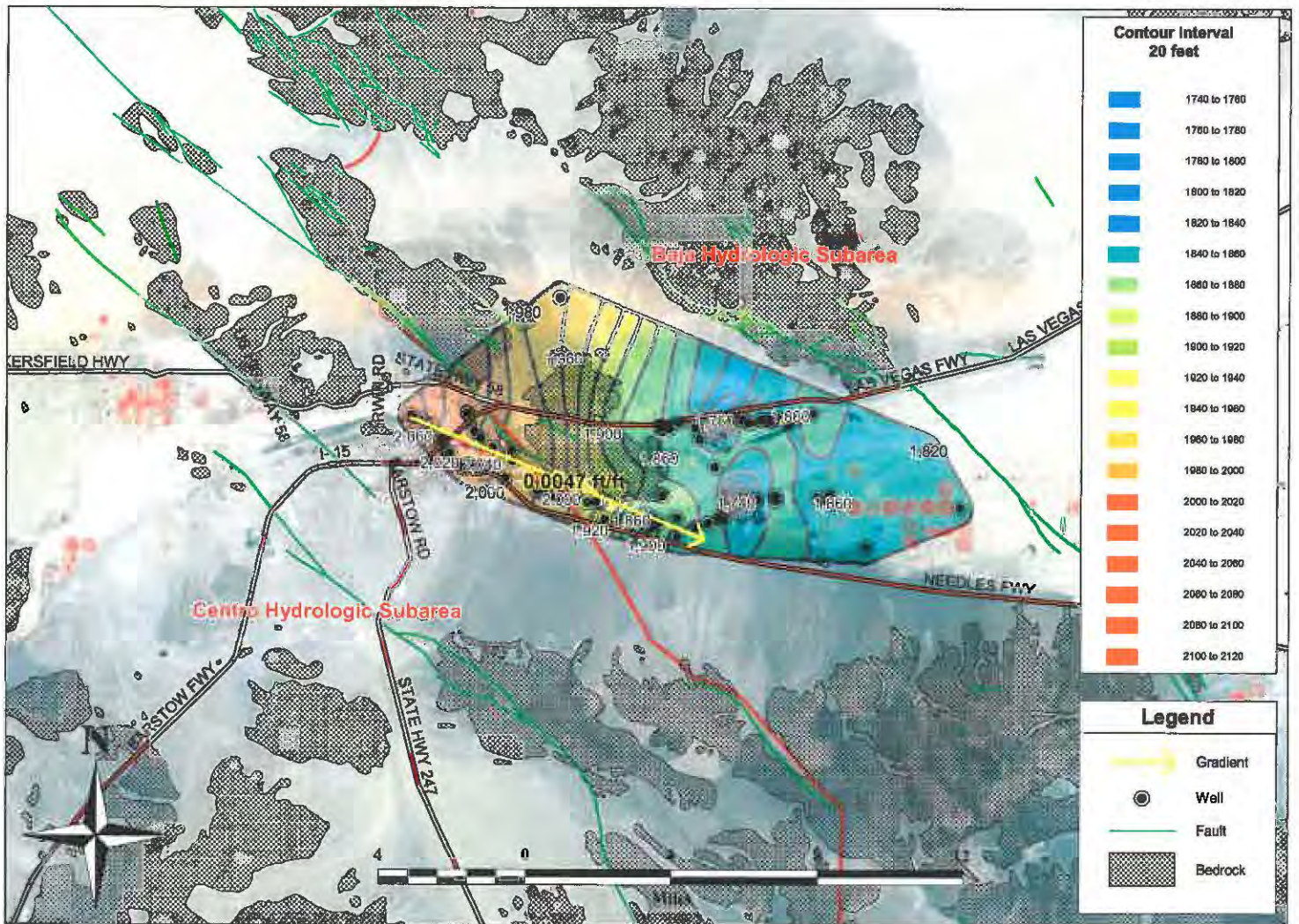




**Figure 6: Spring 2004 Groundwater Gradient - Este to Alto**



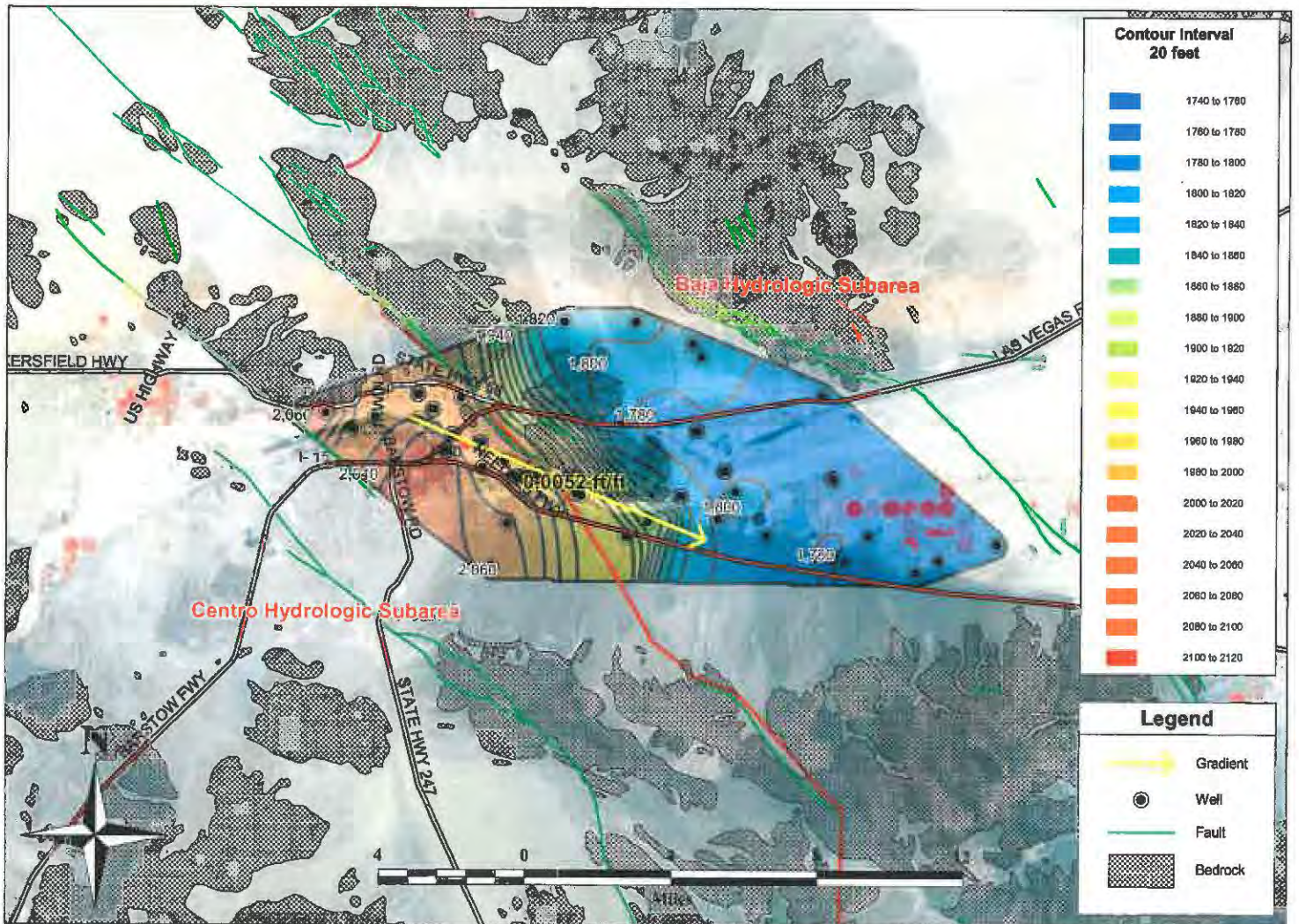
**FIGURE 7**  
**1960 GROUNDWATER GRADIENT**  
**CENTRO TO BAJA**



**Figure 7: 1960 Groundwater Gradient - Centro to Baja**

**FIGURE 8**  
**2004 GROUNDWATER GRADIENT**  
**CENTRO TO BAJA**





**Figure 8: 2004 Groundwater Gradient - Centro to Baja**



**FIGURE 9**  
**CHART SHOWING**  
**RECOMMENDED**  
**SUBSURFACE FLOW BETWEEN SUBAREAS**

## Recommended Subsurface Flow Obligations Between Subareas



## References:

- Barto, R., 1986. Ground Water Study for the Newberry Springs Area – Agreement No. 86-87. 148 p.
- Barto, R., 1990. Ground Water Resources Investigation at Crystal Hills Sand & Gravel, Lucerne Valley, California. P 29.
- California's Department of Water Resources (DWR) (<http://wdl.water.ca.gov/>).
- Driscoll, F.G., 1986. Groundwater and Wells. Reynolds Guyar Designs, 2<sup>nd</sup> Edition. 1089 p.
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- Frieling, J.L., Brown, G.A., Rowe, J.A., Brose, R., Cole, C., and Pleasant, S., 1983. Mojave River Groundwater Basins Historic and Present Conditions, Helendale Fault to Calico-Newberry Fault. Report by C M Engineering Associates and LeRoy Crandall and Associates. 150 p.
- Geoscience Support Service Inc., 1992. Old Woman Springs Area Results of Exploratory Drilling and Revised Safe Yields Estimate, in cooperation with the Mojave Water Agency.
- Gershon, Sam I. and Webb, et al., 2000. Consumptive Water Use Study and Update of Production Safe Yield Calculations for the Mojave Basin Area.
- Heath, R.C., 1993. Basic Ground-water Hydrology. U.S. Geological Water-Supply Paper 2220. 88 p.
- Horne, J.D., 1989. Hydrologic Study of the Phelan-El Mirage Area, San Bernardino County, California, 28 p.
- Huff, J.A., Clark, D.A., and Martin, P., 2002. Lithologic and Ground-Water Data for Monitoring Sites in the Mojave River and Morongo Ground-Water Basins, San Bernardino County, California, 1992-98. USGS Open-File Report 02-354.
- Izbicki, J.A., 2004. Source and Movement of Groundwater in the Western Part of the Mojave Desert, Southern California, USA: United States Geological Survey, Water-Resources Investigations Report 03-4313, 128 p.
- Laton, W.R., Foster, J., Blazevic, M., Napoli, and Perez, P. 2005. Este Hydrologic Sub-Basin Hydrogeologic Report. 100 p.

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- Mojave Basin Area Watermaster, 1994-2005. First through Eleventh Annual Reports.
- Smith, G.A., and Pimental, M.I., 2000. Regional water table (1998) and ground-water-level changes in the Mojave River and the Morongo ground-water basins, San Bernardino County, California: U.S. Geological Survey Water-Resources Investigation Report 00-4090, 107 p.
- Stamos, C.L., Cox, B.F., Izbicki, J.A. and Medez, G.O., 2003. Geologic Setting, Geohydrology, and Ground-Water Quality near the Helendale Fault in the Mojave River Basin, San Bernardino County, California. U.S. Geological Survey, in cooperation with the Mojave Water Agency, Water-Resources Investigations Report 03-4069. 53 p.
- Stamos, C.L., Martin, P., Nishikawa, T., and Cox, B.F., 2001. Simulation of Ground-water Flow in the Mojave River Basin, California, U.S. Geological Survey, in cooperation with the Mojave Water Agency, Water-Resources Investigations Report 01-4002, 129 p.
- State of California, Department of Public Works, Division of Water Resources, 1934. Bulletin No. 47. Mojave River Investigation. 259 p.
- Todd Engineering, 1999. Hydrologic Analysis of the Mojave River Basin in the Alto Subarea. 66 p.
- United States Geological Survey's (USGS) National Water Information System (NWIS) (<http://waterdata.usgs.gov/nwis>).
- URS, 2003. Mojave River Transition Zone Recharge Project – Phase II Report Groundwater Supply and Demand in the Transition Zone. 117 p.



**EXHIBIT 9**

SCANNED  
3/29/06  
W

# MOJAVE BASIN AREA WATERMASTER

## ADOPTED BOARD ACTIONS

February 22, 2006  
4:30 p.m.

1. **INVOCATION** – Director Bishop rendered the invocation.
2. **CALL TO ORDER, PLEDGE OF ALLEGIANCE AND ROLL CALL -**

Chairman Page called the meeting to order at 4:31 pm.

### **ROLL CALL**

- |                    |  |
|--------------------|--|
| Watermaster Board: | Chairman Page – Present<br>Vice-Chairman Cox – Present<br>Director Bishop – Present<br>Director Fortyune – Present<br>Director Hall – Present<br>Director Lowry – Present<br>Director Ventura– Present   |
| MWA Staff Present: | Kirby Brill, Executive Officer<br>Norman Caouette, Assistant Executive Officer<br>Valerie Wiegenstein, Watermaster Services Manager<br>Lance Eckhart, Senior Hydrogeologist<br>Jeffrey Ruesch, Senior Watermaster Technician<br>Robert Boytor, Watermaster Technician II<br>Joanne Lowrance, Watermaster Secretary |
| Others Present:    | Bill Brunick, Legal Counsel<br>Robert Wagner, Watermaster Engineer<br>Nine visitors  |

### **3. APPROVAL OF AGENDA**

MO #0632 **ACTION:** Motion made, seconded and the agenda approved as submitted.

### **4. PUBLIC PARTICIPATION** – There were no public comments at this time.

### **WORKSHOP**

### **5. SUBSURFACE FLOWS BETWEEN SUBAREAS**

A report titled, "Mojave Basin Area Watermaster Summary Report Subsurface Flow Between Subareas" by Robert C. Wagner, dated February 22, 2006, was distributed.

Mr. Caouette began with an introduction on this issue.  
Mr. Wagner and Mr. Eckhart provided information by way of a Powerpoint presentation.

**Mojave Basin Area Watermaster  
Adopted Board Actions  
February 22, 2006  
Page 2**

Mr. Tom Bilhorn representing the California Department of Fish and Game stressed the importance of considering gradient and elevation when calculating data. He stated that he does agree with the data presented by Mr. Wagner. Mr. Bilhorn expressed concern with impact to the area below Baja. He referred to Mr. Wagner's recommendation to drop the requirement of 400 acre-feet and suggested rewording to the effect of "at present, it is uneconomical to install a monitoring system. We are unaware according to the data available of any problems and therefore do not recommend any changes". He feels that the 400 acre-feet should continue to be used to calculate the basin overdraft.

Ms. Jennette Hayhurst with the City of Barstow spoke in support of considering the 400 acre-feet of subsurface flow from Baja.

**ACTION:** *Informational purposes only. No action taken.*

**CONSENT CALENDAR**

6. **ACTIONS OF THE REGULAR MEETING OF JANUARY 25, 2006**
7. **BILLS FOR PAYMENT**
8. **FINANCIAL STATEMENTS THROUGH JANUARY, 2006**
9. **PERMANENT TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT**
  - A. **MOONYOUNG & OKHEA LEE TO STEPHEN AND LORI THOMAS  
(49 ACRE-FEET, BAJA SUBAREA, AMOUNT PAID, INCLUDED IN  
SALE OF PROPERTY)**
  - B. **JOHN VAN LEEUWEN TO HIGH DESERT ASSOCIATES, INC.  
(400 ACRE-FEET, CENTRO SUBAREA, AMOUNT PAID, \$1,030 PER  
ACRE-FOOT)**

MO #0633 **ACTION:** *Motion made, seconded and the items on the Consent Calendar unanimously approved by the Board.*

**PUBLIC HEARINGS**

10. **PUBLIC HEARING TO RECEIVE COMMENTS ON DRAFT APPENDIX B FOR  
WATER YEAR 2004-05**

Introduction by Mr. Caouette.

Chairman Page opened the Public Hearing at 5:21 pm.

There being no comments from the public on this item, the Public Hearing closed at 5:22 pm.

**ACTION:** *No action at this time.*

**11. PUBLIC HEARING TO RECEIVE COMMENTS ON THE DRAFT BUDGET AND ASSESSMENT RATES FOR WATER YEAR 2006-07**

Mr. Caouette presented this item for consideration.

Chairman Page opened the Public Hearing at 5:23 pm.

There being no comments from the public on this item, the Public Hearing closed at 5:23 pm.

MO #0634 **ACTION:** *Motion made seconded and the Board approved staff's recommendation to set a public hearing and notice parties of the intent to adopt the draft Budget and Assessment Rates for Water Year 2006-07 at the regularly scheduled meeting on March 22, 2006.*

**12. PUBLIC HEARING ON THE PROPOSED RECOMMENDATION FOR FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2006-07**

Introduction by Mr. Caouette and review of recommendations by Mr. Wagner.

Chairman Page opened the Public Hearing at 5:25 pm.

There being no comments from the public on this item, the Public Hearing closed at 5:25 pm.

MO #0635 **ACTION:** *Motion made seconded and the Board approved staff's recommendation to set a public hearing and notice all parties of the intent to adopt the proposed Free Production Allowance for Water Year 2006-07 at the regularly scheduled meeting on March 22, 2006.*

**NEW BUSINESS**

**13. AUTHORIZE LEGAL COUNSEL TO REQUEST THAT THE COURT ELIMINATE THE ALTO UNIDENTIFIED POOL**

Mr. Caouette reviewed the background and recommendation for this item.

MO #0636 **ACTION:** *Motion made seconded and the Board unanimously authorized legal counsel to request that the Court remove the Alto unidentified pool from further consideration for distribution of Base Annual Production in the Alto Subarea.*

**REPORTS**

**14. EXECUTIVE OFFICER REPORTS.**

**A. DRAFT WATERMASTER ANNUAL REPORT FOR WATER YEAR 2004-05**

The Draft Twelfth Annual Report was distributed at this meeting.

**B. TABLE AND GRAPH SHOWING THE STATUS OF THE MOJAVE WATER AGENCY'S GROUNDWATER STORAGE ACCOUNTS BY SUBAREA AND TYPE OF WATER**

**C. LIQUIDITY REPORT**

The reports included with the agenda package were reviewed by Ms. Wiegenstein.



**Mojave Basin Area Watermaster  
Adopted Board Actions  
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Page 4**

Mr. Bilhorn responded to a request from Director Lowry that Biological fees could not be expended outside the boundaries of the Transition Zone/Upper Narrows due to restraints of Exhibit H.

**15. ENGINEER REPORTS**

**A. GRAPH SHOWING HISTORIC ANNUAL BASE FLOW AT THE LOWER NARROWS GAGE AND DIRECT MEASUREMENTS BY USGS**

Mr. Wagner reviewed the USGS measurements of base flow at the Lower Narrows.

**B. OTHER REPORTS – None.**

**16. LEGAL REPORTS. – No legal reports.**

**17. DIRECTORS REPORTS – No reports.**

**OTHER BUSINESS**

**18. DISCUSSION ITEMS FOR NEXT OR FUTURE AGENDAS – None.**

**19. CLOSED SESSION. – None.**

**20. ADJOURNMENT – Chairman Page adjourned the meeting at 5:38 pm.**

Approved:

  
Joanne Kowrance, Secretary

March 22, 2006

**Attachments on-file:**

**Item No. 5 – PowerPoint presentation, "Report of Subsurface Flow Between Subareas"  
– "Mojave Basin Area Watermaster Summary Report Subsurface Flow Between Subareas" by Robert C. Wagner, dated February 22, 2006**

**Item No. 9 – Signed documentation**

**Item No. 10 – Signed documentation**

**Item No. 11 – Signed documentation**

**Item No. 12 – Signed documentation**

**– PowerPoint presentation, "FPA Recommendation for Water Year 2006-07"**

**Item No. 13 – Signed documentation**

**Item No. 14A – "Draft Twelfth Annual Report of the Mojave Basin Area Watermaster Water Year 2004-05"**

**Sign-in sheets**

*\*Audio recording of this meeting available upon request.*

# Report on Subsurface Flow Between Subareas

Mojeve Basin Area Watermaster  
Workshop February 22, 2006  
Robert C. Wagner, Watermaster Engineer  
Lance Eckhart, MWA Senior Hydrogeologist

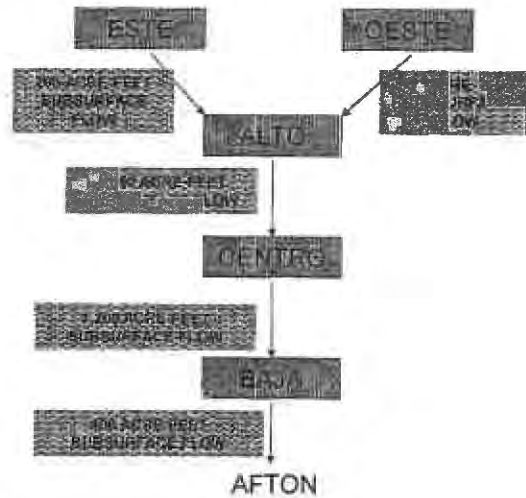


## Requirements of the Judgment

- Judgment Established Subarea Subsurface Flow Obligations
- Required MWA to install monitoring wells
- Required MWA to Re-evaluate Estimates after 10 years
- Recommend Changes if Needed
- Monitor Conditions in the Future



### Current Subsurface Flow Between Subareas



### Study Methodology

- Determine historical gradient between Subareas
- Estimate hydraulic conductivity of aquifer
- Determine cross section geometry
- Use Darcy equation to determine subsurface flow
- Determine existing gradient for comparison



## Darcy's Law

$$Q = KiA$$

Q = Flow

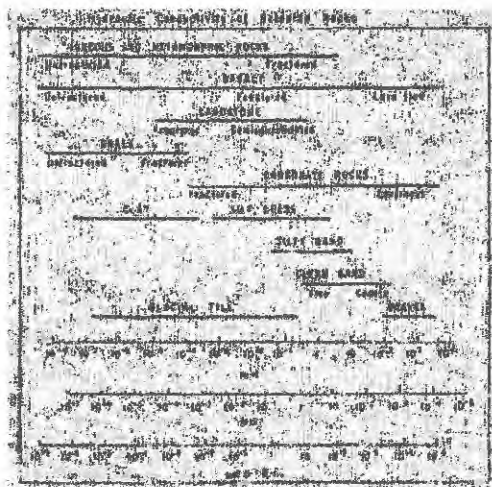
K = Hydraulic Conductivity

i = Groundwater Gradient

A = Cross Sectional Area of Aquifer

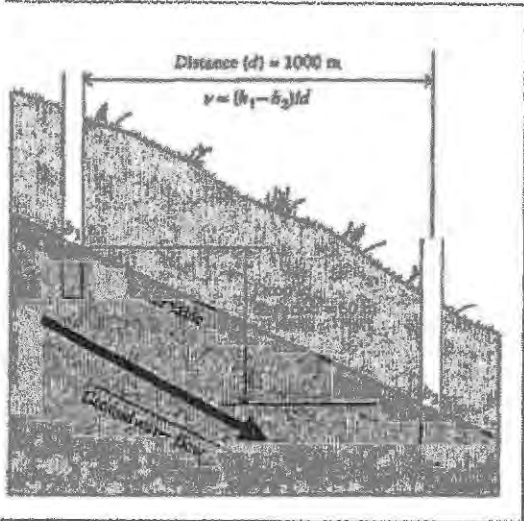


## Hydraulic Conductivity (K)

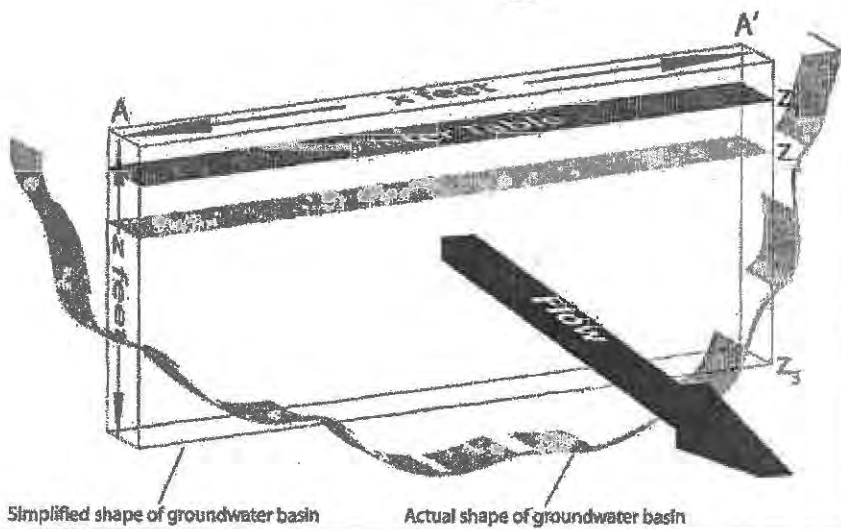




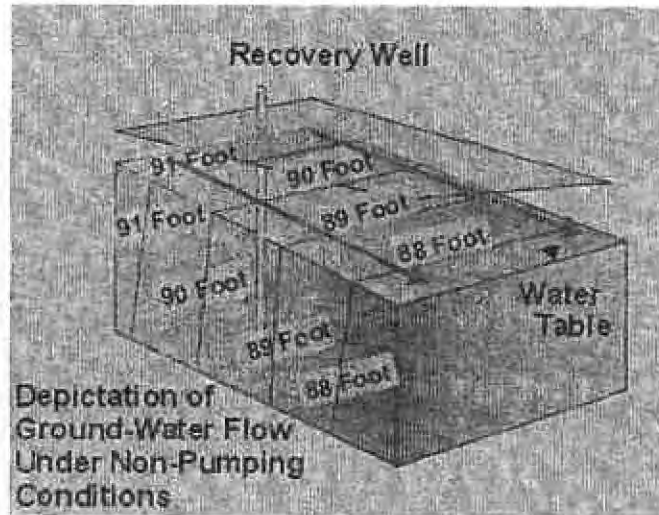
# Hydraulic Gradient (i)



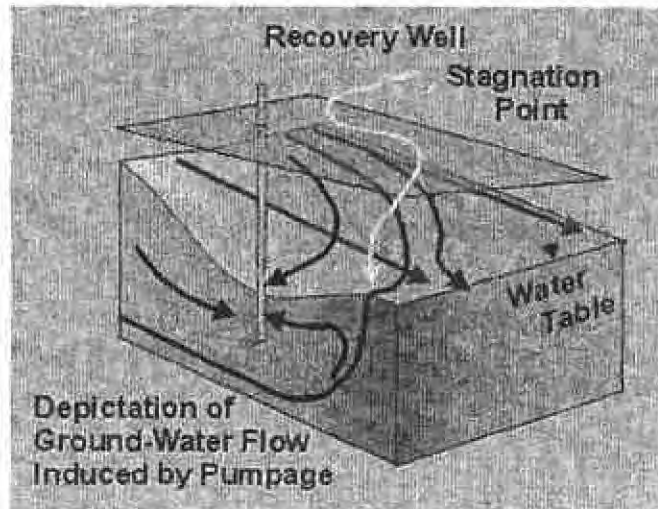
$$Q = K(A)$$



## Hydraulic Gradient (i)



## Hydraulic Gradient (i)



## Recent Activities (1990 to Current)

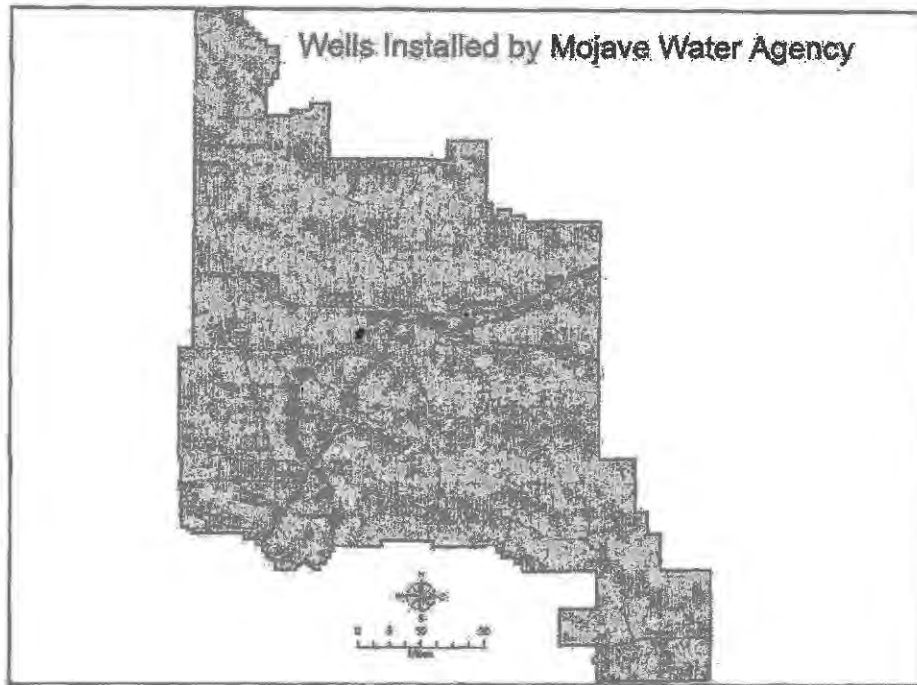
- Installed over 100 monitoring wells
- Have monitored over 960 separate wells
- Collected over 27,000 individual water level records
- Have completed multiple studies to understand the hydraulic properties of the region



## Recent Activities (1990 to Current)

- Mojave River Basin Groundwater Model - 2001
- Consumptive Water Use Study and Update of Production Save Yield Calculations – 2000
- Transition Zone Study – 2003
- Este Study – 2005
- **Regional Contour Maps – 1992, 1994, 1996, 1998, 2000, 2002, 2004**
- Helendale Fault Investigation – 2003
- Gravity Survey Investigations 1990, 2005
- Groundwater and Surface Water Relations Along the Mojave River – 1995
- Riparian Zone and Hydrogeology Investigation – 1999
- Riparian Vegetation and Water Use - 1996
- Hydrologic Analysis of the Mojave River/Alto – 1999
- Age Dating and Groundwater Movement – 2003
- Evolution of the Mojave River – 2000
- Afton Flow Study - 1993



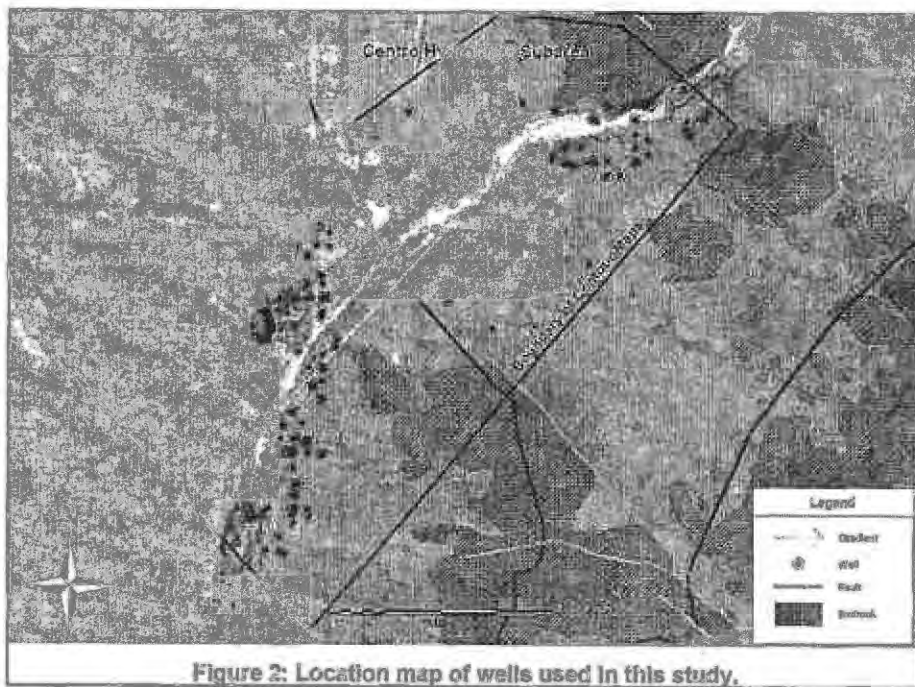
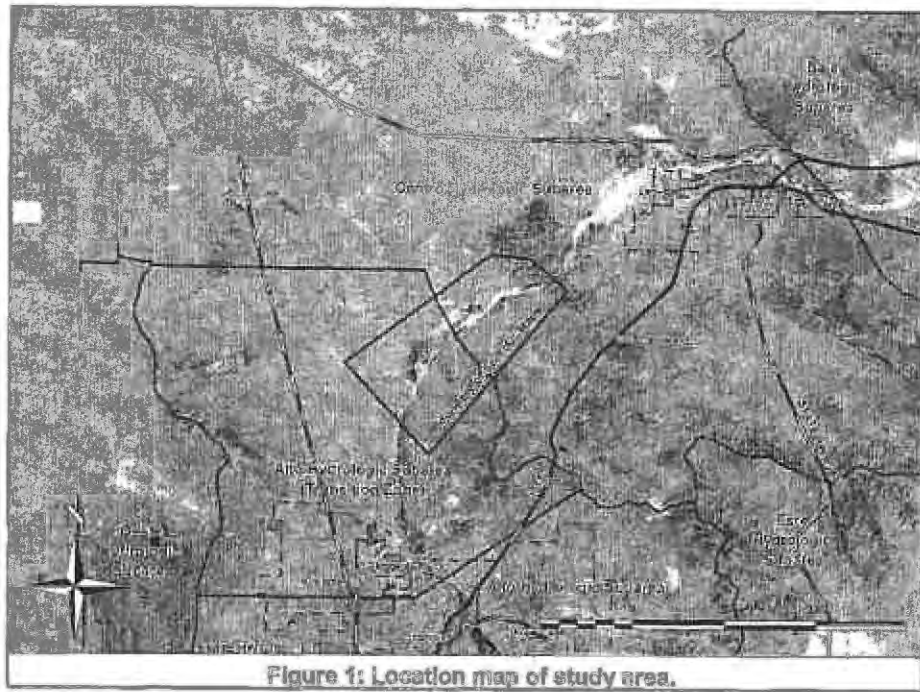


## What We Worked With

- **Comprehensive Water Level Data Set**
  - USGS
  - DWR
  - MWA
- **Previous Studies in the Study Areas**
- **Water Level (K) and Hydraulic Gradient (i) Comparisons**
  - Historic ~1950's
  - Pre-Judgment to early Judgment (data allowing) ~mid-1990's
  - Current conditions ~2004

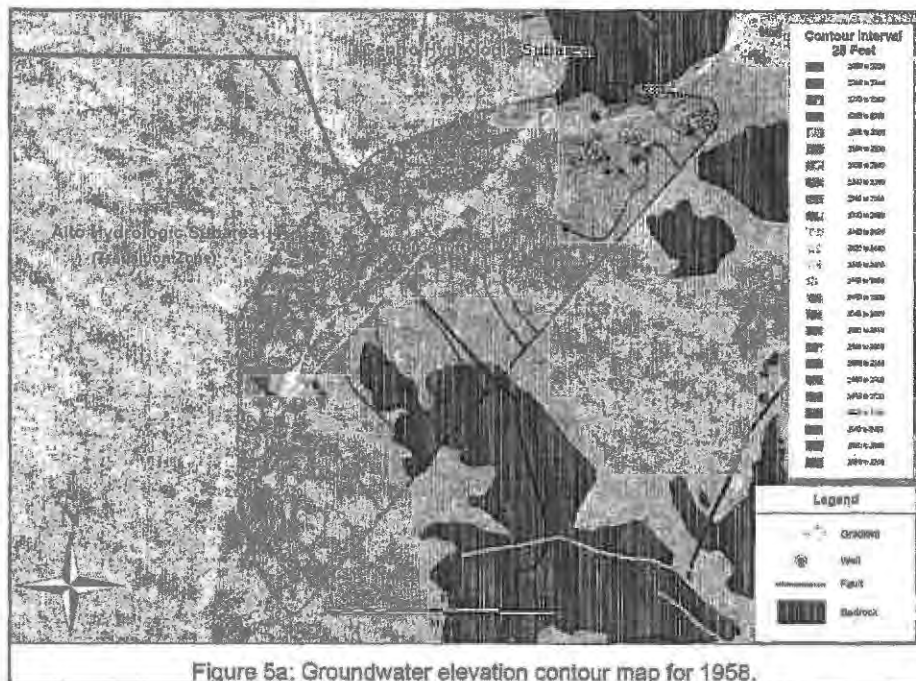


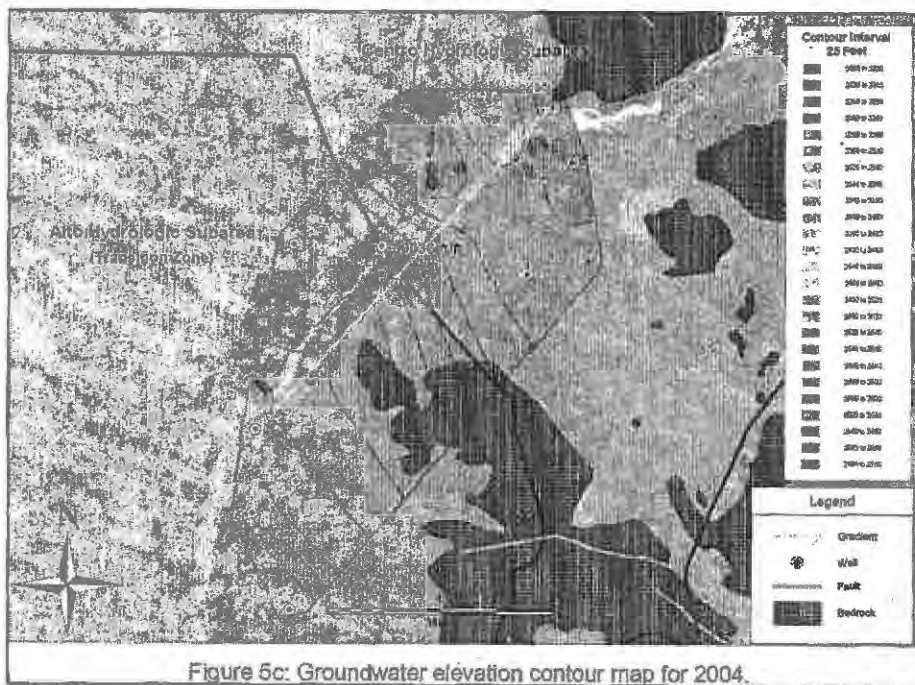
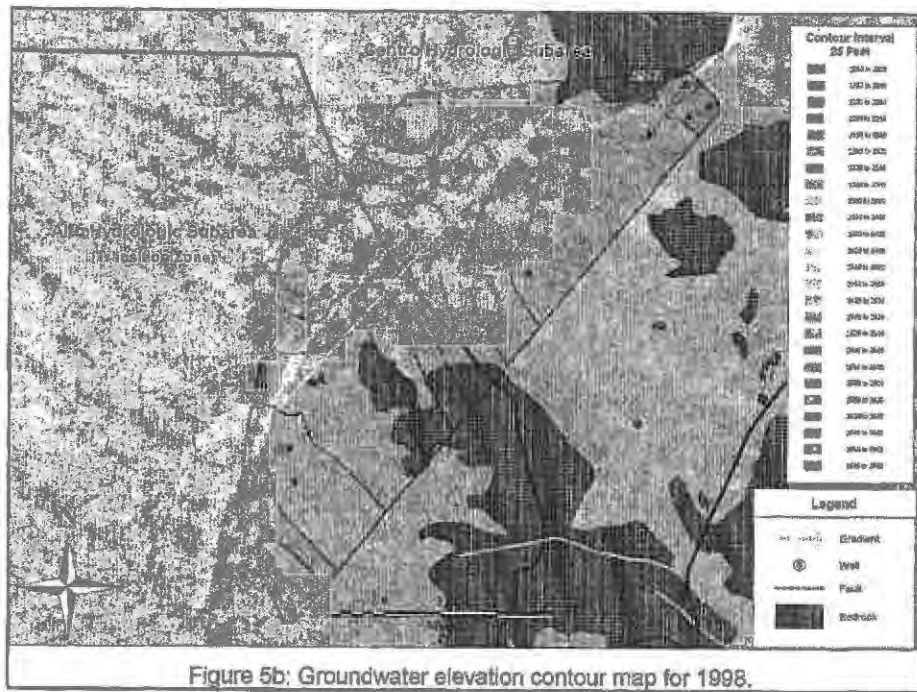


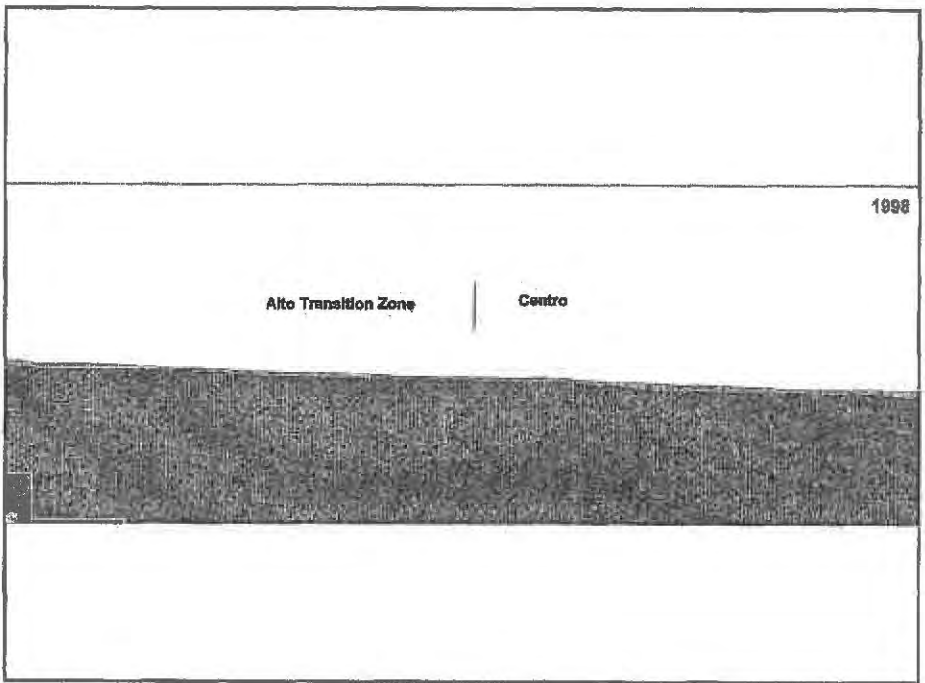
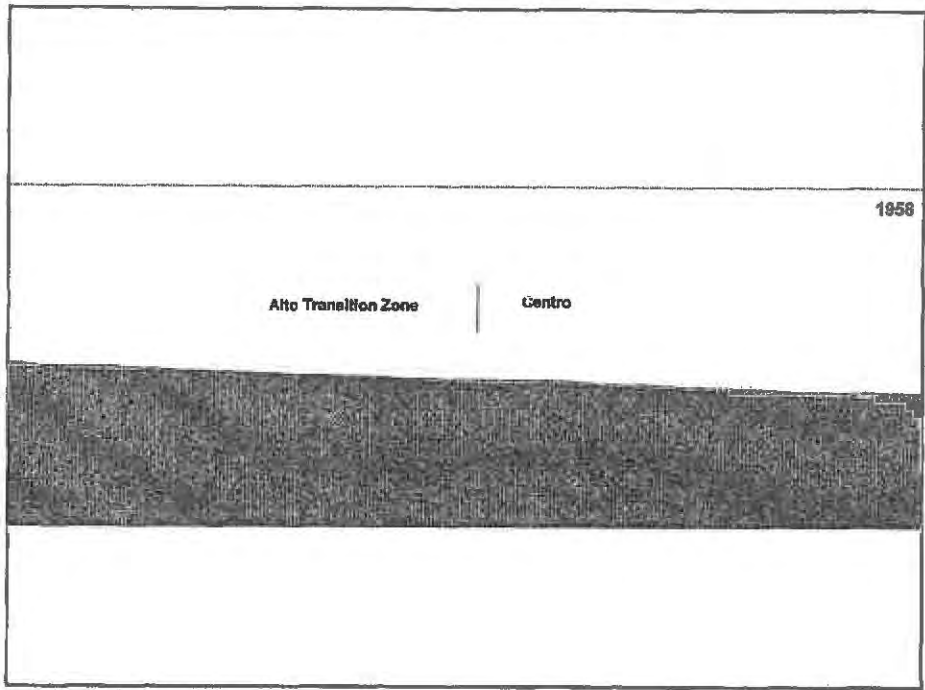


## How We Calculated Gradient (i)

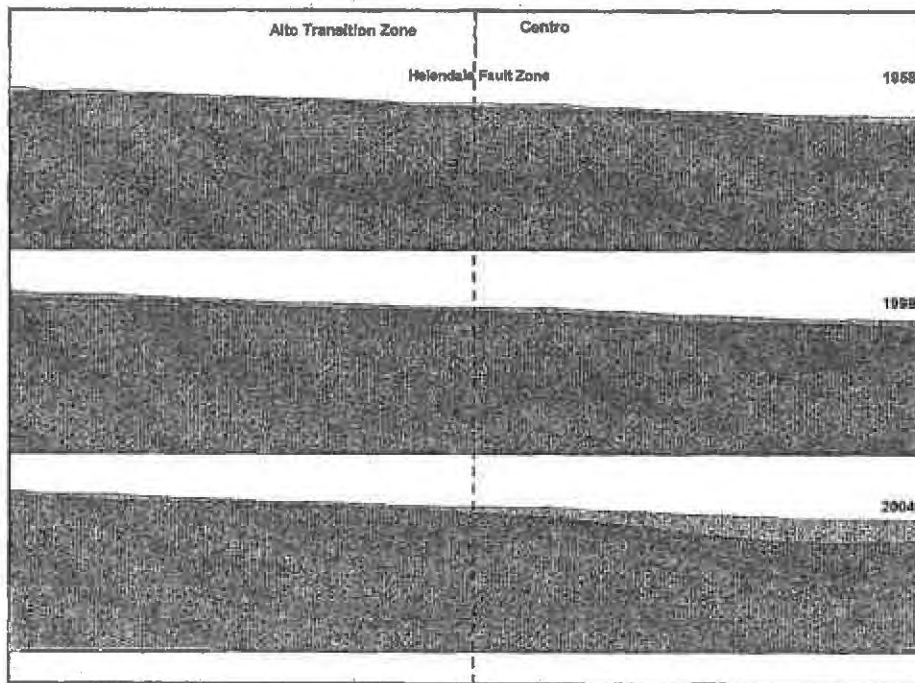
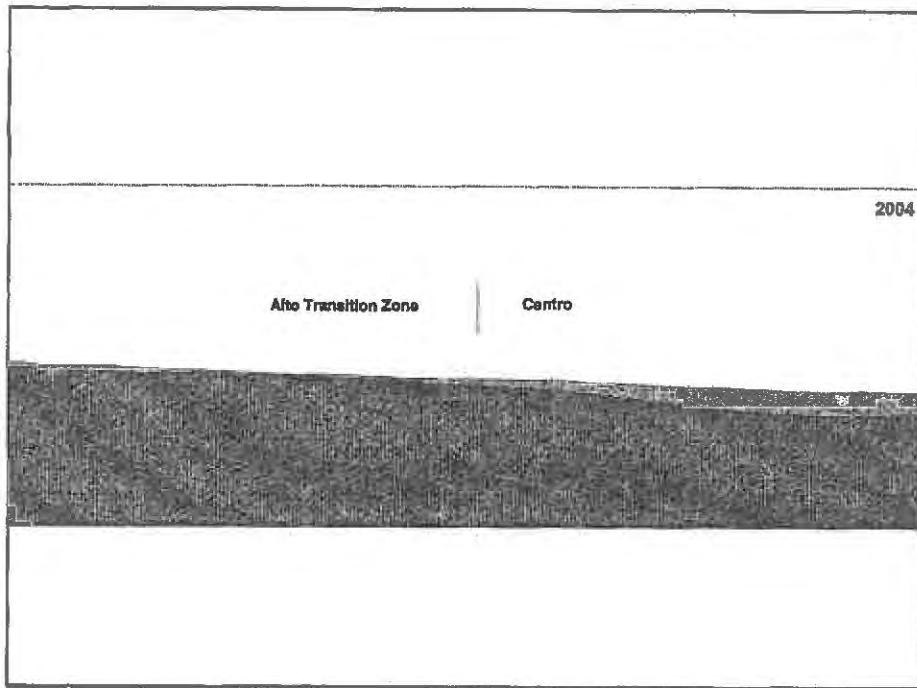
- **Utilized Three Methods**
  - Hand Generated Contour
  - Computer Generated Contour
  - Statistical Analyses











## Hydraulic Conductivity Values (K) & Aquifer Thickness Values

Source	Hydraulic Conductivity (K) (ft/day)	Aquifer Thickness (ft)	Notes on source
Multiple Sources	0.003	NA	General References
Stamos, et. al., 2003	4 - 23	150+	USGS Water-Resources Investigation Report 03-4069
Hardt, 1971	9 - 18	200	Transmissivity of 13,000 - 27,000 gpd/ft; Hydraulic Conductivity based on a depth of 200 feet.
Stamos, et. al., 2001	250	200+	USGS Water-Resources Investigations Report 01-4002; Estimated Transmissivity values for layer 1 are greater than 50,000 ft <sup>2</sup> /day
URS, 2003		200	Based on geophysics and well logs.
Well Logs	NA	200	Deepest wells
Multiple Sources	300	NA	General References

Table 1: Source and Information on Varying Hydraulic Conductivity Values.

## Subflow Ranges

Discharge (Q) (acre-ft/year)	Hydraulic Conductivity (K) (ft/day)			
	0.003	23	250	300
Thickness (b) (ft)				
100	<0.1	540 - 730	6,000 - 7,900	7,000 - 9,500
200	<0.2	1,100 - 1,500	12,000 - 16,000	14,000 - 19,000
300	<0.3	1,600 - 2,200	18,000 - 24,000	21,000 - 28,000

Table 9: Range of yearly discharge values (acre-ft/year).

## Methodology Conclusions

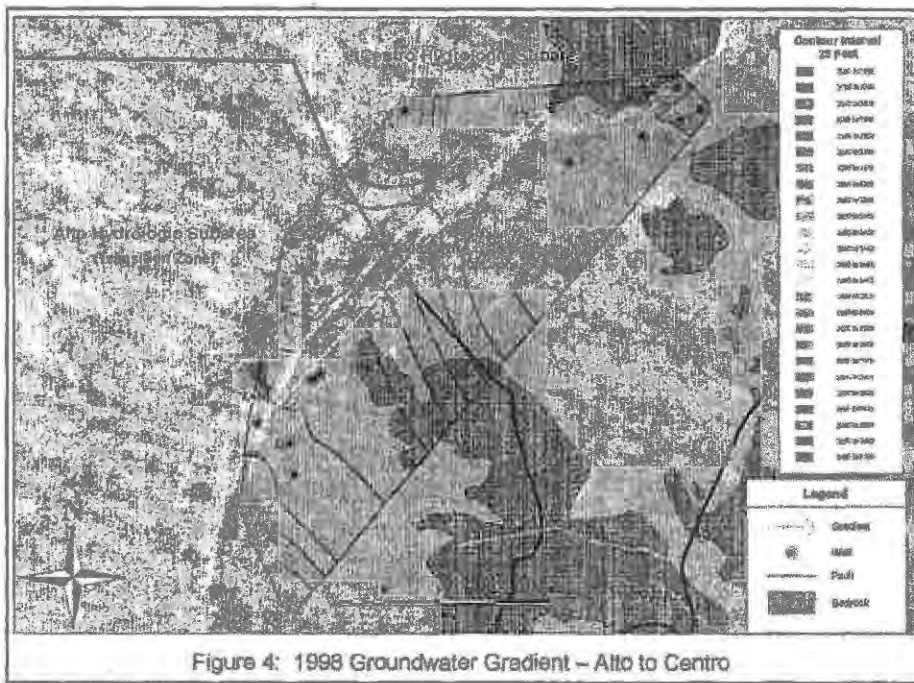
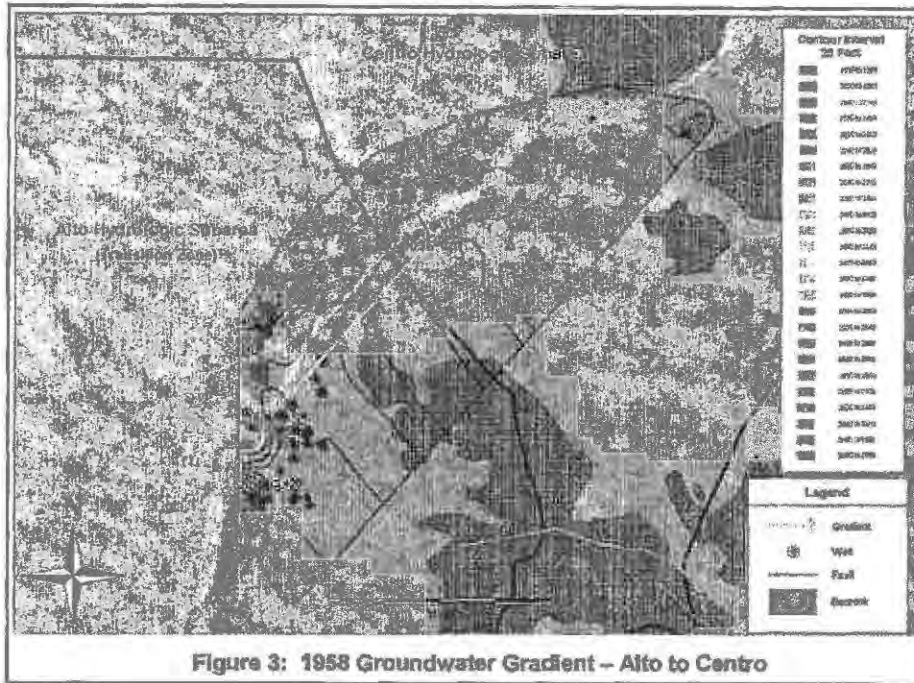
- Gradients were calculated using 3 separate methods
- Gradients have generally not changed since the Judgment
- Methods used are acceptable for future monitoring
- Future analyses will be supported by the ***Basin Conceptual Model/Key Well Program***



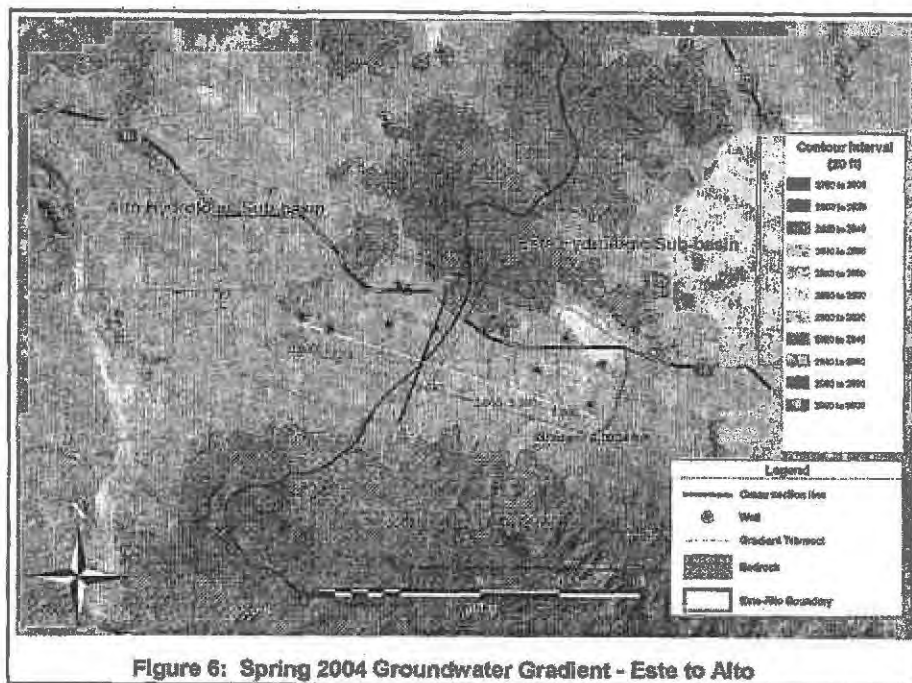
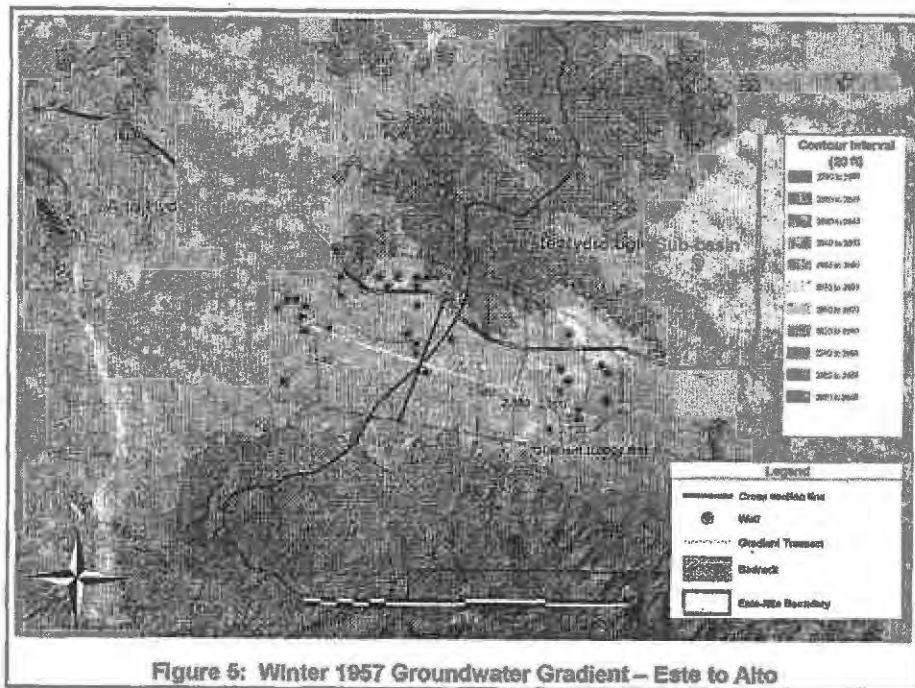
## Discussion of each flow obligation

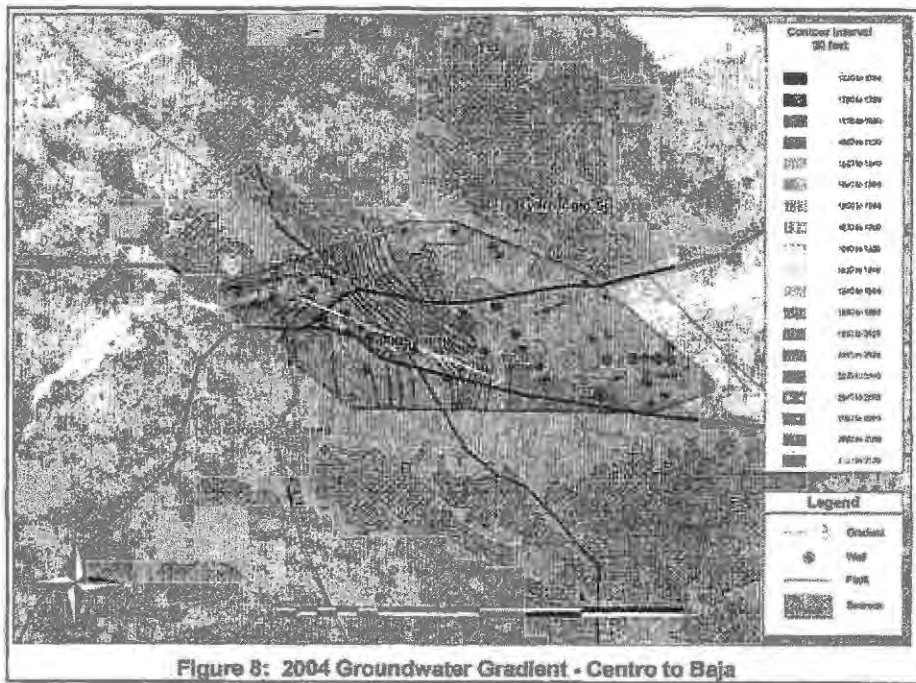
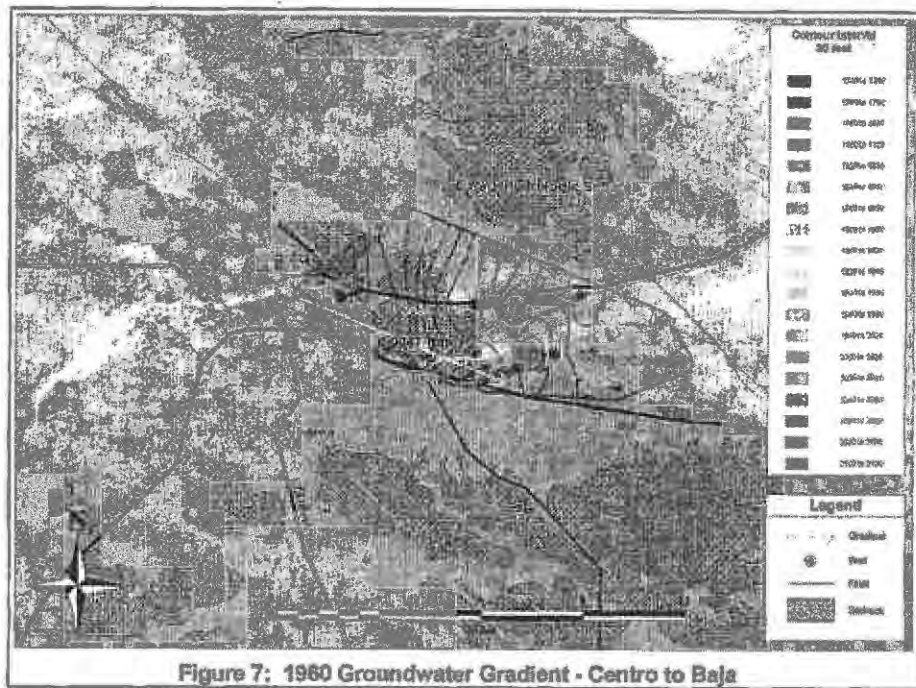
- Este to Alto
- Alto to Centro
- Oeste Alto
- Centro to Baja
- Baja to Afton











## **Did we learn anything that would change our understanding of the Subsurface flow?**

**No: The past and present groundwater gradient is unchanged at the boundary between:**

- **Alto and to Centro**
- **Este and Alto**
- **Centro and Baja**



## **What is the relationship between an unchanged gradient and the subsurface flow?**

- **The stable groundwater gradient indicates stability in the amount of subsurface flow**
- **Although we may not be able to “accurately” determine the amount of flow, we can determine if it has changed**
- **By monitoring the gradient, we can monitor the relationship between the Subareas as required by the Judgment**



**Did we learn anything else that would change our understanding of the Subsurface flow?**

**Yes: We have insufficient data to evaluate Oeste to Alto and Baja to Afton.**



## **Oeste to Alto**

- **We are investigating the hydrogeology of Oeste and expect to have more information at the end of 2006**
- **We will report back with a recommendation at that time**





## Baja to Afton

- There is virtually no information available to evaluate this subsurface flow obligation
- There is a high cost of obtaining information
- MWA would likely need to build a pipeline to a point outside of its boundary to satisfy the obligation in the Judgment
- The cost would be borne by Baja residents
- The benefits would be minimal



### Recommended Subsurface Flow Between Subareas



**ATTENDANCE  
MOJAVE BASIN AREA WATERMASTER  
REGULAR MEETING**

Date: February 22, 2006  
Time: 4:30 p.m.  
Meeting Place: Mojave Water Agency Board Room

---

**DIRECTORS:**

Div. #1 *Kimberly Cox*  
Kimberly Cox  
Div. #2 *Jim Ventura*  
Jim Ventura  
Div. #3 *Richard D. Hall*  
Richard D. Hall

Div. #4 *Mike Page*  
Mike Page  
Div. #5 *Art Bishop*  
Art Bishop  
Div. #6 *Beverly Lowry*  
Beverly Lowry

Div. #7 *Dick Fortyné*  
Dick Fortyné

**MWA STAFF:**

1. *Norm Elliott*  
2. *[Signature]*  
3. *[Signature]*  
4. *Robert Boyce*  
5. *V. Wiggins*  
*James Lawrence*

7. *Kirk Bill*  
8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_  
11. \_\_\_\_\_  
12. \_\_\_\_\_

**CONSULTANTS:**

1. *[Signature]*  
2. *Bob Wagner*

3. \_\_\_\_\_  
4. \_\_\_\_\_

**MEETING SIGN-IN SHEET**

**MOJAVE BASIN AREA WATERMASTER  
MEETING**

**FEBRUARY 22, 2006  
4:30 P.M.**

**MOJAVE WATER AGENCY BOARD ROOM  
22450 HEADQUARTERS DRIVE  
APPLE VALLEY CA 92307**

*The signing, registering, or completion of this document is voluntary. All persons may attend this meeting regardless of whether they sign, register, or complete this document.*

NAME	REPRESENTING	ADDRESS	EMAIL
Tom Bilhain	DFG		
Wayne Soppel	Centro		
Paul Gannon	II		
YW Mowen	NRCWD		
Perry D. D. D.	GSW		
Jesse Ramirez	GSW C		
MARIN LASLAI	GSW C		
JOE Mathew	SB SDD		
Tonya Moore	DFG		

**EXHIBIT 10**



# MOJAVE BASIN AREA WATERMASTER

SCANNED  
5-20-09  
D W. Williams  
F Arizona

## ADOPTED BOARD ACTIONS

March 22, 2006

4:30 p.m.

1. **INVOCATION** – Director Bishop rendered the invocation.
2. **CALL TO ORDER, PLEDGE OF ALLEGIANCE AND ROLL CALL** -

Chairman Page called the meeting to order at 4:30 pm.

### **ROLL CALL**

**Watermaster Board:**

Chairman Page – Present  
Vice-Chairman Cox – Present  
Director Bishop – Present  
Director Fortyune – Present  
Director Hall – Present  
Director Lowry – Present  
Director Ventura – Present

**MWA Staff Present:**

Kirby Brill, Executive Officer  
Norman Caouette, Assistant Executive Officer  
Valerie Wiegenstein, Watermaster Services Manager  
Jeffrey Ruesch, Senior Watermaster Technician  
Robert Boytor, Watermaster Technician II  
Joanne Lowrance, Watermaster Secretary

**Others Present:**

Bill Brunick, Legal Counsel  
Robert Wagner, Watermaster Engineer  
Six visitors

3. **APPROVAL OF AGENDA**

MO#0637

**ACTION:** Motion made, seconded and the agenda approved as submitted.

4. **PUBLIC PARTICIPATION** – There were no public comments at this time.

### **CONSENT CALENDAR**

5. **ACTIONS OF THE REGULAR MEETING OF FEBRUARY 22, 2006**
6. **BILLS FOR PAYMENT**
7. **FINANCIAL STATEMENTS THROUGH FEBRUARY, 2006**

8. PERMANENT TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT
  - A. KEN LUTH TO UDDERLY GOLD FARMS, LLC  
(27 ACRE-FEET, ALTO SUBAREA, AMOUNT PAID, INCLUDED IN SALE OF PROPERTY)
  - B. GREGORY M. & LISA A. MORCK TO DORA LAND, INC.  
(15 ACRE-FEET, ALTO SUBAREA, AMOUNT PAID, \$2,500 PER ACRE-FOOT)
  - C. ROBIN & JUDITH MITCHELL TO ELAINE TRAHAN  
(36 ACRE-FEET, ALTO SUBAREA, AMOUNT PAID, INCLUDED IN SALE OF PROPERTY)
  - D. ELAINE TRAHAN TO TRAHAN, ET AL.  
(36 ACRE-FEET, ALTO SUBAREA, AMOUNT PAID, INCLUDED IN SALE OF PROPERTY)
  - E. JOETTE JONES TO AQUA CAPITAL MANAGEMENT, LLC  
(30 ACRE-FEET, CENTRO SUBAREA, AMOUNT PAID, \$1,030 PER ACRE-FOOT)
  - F. THOMAS A. & PATRICIA C. PURCIO TO BRYAN C. HAAS & MARY H. HINKLE  
(80 ACRE-FEET, BAJA SUBAREA, AMOUNT PAID, INLCLUDED IN THE SALE OF PROPERTY)
  - G. RAYMOND WARD TO PORTER G. & ANITA E. SMITH  
(25 ACRE-FEET, BAJA SUBAREA, AMOUNT PAID, INCLUDED IN SALE OF PROPERTY)
  - H. ANDY MALIN & PAULA SOLOMON TO JAMES N. JACKSON, JR. REVOCABLE TRUST  
(54 ACRE-FEET, BAJA SUBAREA, AMOUNT PAID, INCLUDED IN SALE OF PROPERTY)
  - I. DAVID P. BALL TO BANK OF AMERICA (FORECLOSURE)  
(81 ACRE-FEET, BAJA SUBAREA)
  - J. BANK OF AMERICA TO QUIGG AND COMPANY, INC.  
(81 ACRE-FEET, BAJA SUBAREA, AMOUNT PAID, INCLUDED IN SALE OF PROPERTY)

MO#0638 **ACTION:** Motion made, seconded and the items on the Consent Calendar unanimously approved by the Board.

#### PUBLIC HEARINGS

9. PUBLIC HEARING TO RECEIVE COMMENTS AND RECOMMENDATIONS TO THE DRAFT WATERMASTER ANNUAL REPORT FOR WATER YEAR 2004-05

Mr. Brill and Ms. Wiegenstein introduced this item.  
Chairman Page opened the Public Hearing at 4:33 pm.  
There being no comments from the public on this item, the Public Hearing closed at 4:33 pm.

MO#0639 **ACTION:** Motion made, seconded and the Watermaster Board unanimously accepted the Twelfth Annual report and authorized staff to file the report with the Court by April 1, 2006.

**10. PUBLIC HEARING TO ADOPT THE DRAFT BUDGET AND ASSESSMENT RATES FOR WATER YEAR 2006-07**

Ms. Wiegenstein presented this item for consideration.  
 Chairman Page opened the Public Hearing at 4:35 pm.  
 There being no comments from the public on this item, the Public Hearing closed at 4:35 pm.

MO#0640 **ACTION:** Motion made seconded and the Watermaster Board adopted the proposed Budget and Assessment Rates for Water Year 2006-07 as follows:

Estimated Administrative Budget	\$ 478,538.00
Administrative Assessment Rate	\$3.10 per acre-foot of Production
Biological Assessment Rate	\$0.68 per acre-foot of Production
Makeup Water Assessment Rate	\$ 354.00 per acre-foot
Replacement Water Assessment Rate	Alto \$ 277.00 per acre-foot
	Baja \$ 371.00 per acre-foot
	Centro \$ 356.00 per acre-foot
	Este \$ 277.00 per acre-foot
	Oeste \$ 277.00 per acre-foot

**11. PUBLIC HEARING TO ADOPT THE PROPOSED RECOMMENDATION FOR FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2006-07**

This item was introduction by Mr. Caouette and Mr. Wagner reviewed the recommendation.  
 Chairman Page opened the Public Hearing at 4:37 pm.  
 There being no comments from the public on this item, the Public Hearing closed at 4:37 pm.

MO#0641 **ACTION:** Motion made seconded and the Watermaster Board adopted the proposed Free Production Allowances and authorized legal counsel to request a hearing with the Court to consider the proposed Free Production Allowances for Water Year 2006-07 as follows:

<u>Subarea</u>	<u>FPA Recommendation</u>
Este <sup>1</sup>	80% of Base Annual Production
Oeste	80% of Base Annual Production
Alto – Agriculture	80% of Base Annual Production
Alto – Municipal & Industrial	60% of Base Annual Production
Centro	80% of Base Annual Production

*Baja<sup>2</sup>*

*70% of Base Annual Production  
or 75% of Base Annual Production  
pursuant to the Court Order dated  
December 29, 2005*

Mr. Brunick clarified that although the Judgment requires Rampdown based on the numbers, the recommendation complies with what Court has determined in the past.

### NEW BUSINESS

#### 12. **CONSIDER ADOPTION OF THE RECOMMENDED SUBSURFACE FLOW BETWEEN SUBAREAS**

Mr. Wagner presented this item for consideration.

<u>Subareas</u>	<u>Judgment Obligations</u>	<u>Proposed Obligations</u>
Este to Alto	200 acre-feet	200 acre-feet
Oeste to Alto	800 acre-feet	To be determined
Alto to Centro	2,000 acre-feet	2,000 acre-feet
Centro to Baja	1,200 acre-feet	1,200 acre-feet
Baja to Afton	400 acre-feet	0 acre-feet

MO#0642 **ACTION:** *Motion made seconded and the Watermaster Board unanimously adopted the recommended subsurface flow obligations and authorized legal counsel to report to the Court the findings.*

### REPORTS

#### 13. **EXECUTIVE OFFICER REPORTS.**

- A. PERCENTAGE OF PRODUCERS REPORTING FOR THE FIRST QUARTER OF THE 2005-06 WATER YEAR**
- B. ACTIVITY SUMMARY OF QUARTERLY REPORTING AND STATUS OF ASSESSMENTS INVOICED**
- C. TABLE AND GRAPH SHOWING THE STATUS OF THE MOJAVE WATER AGENCY'S GROUNDWATER STORAGE ACCOUNTS BY SUBAREA AND TYPE OF WATER**
- D. LIQUIDITY REPORT**

The reports included with the agenda package were reviewed by Ms. Wiegstein.



14. Engineer Reports.

A. GRAPH SHOWING HISTORIC ANNUAL BASE FLOW AT THE LOWER NARROWS GAGE AND DIRECT MEASUREMENTS BY USGS

Mr. Wagner reviewed the report included in the agenda package.

B. OTHER REPORTS – None.

15. LEGAL REPORTS. – No legal reports.

16. DIRECTORS REPORTS –

Director Bishop commended Watermaster staff on successfully achieving 90% reporting.

Director Hall complemented Mr. Wagner, Mr. Brunick, and staff for efforts in meeting court-mandated deadlines.

Director Lowry commented on World Water Day.

OTHER BUSINESS

17. DISCUSSION ITEMS FOR NEXT OR FUTURE AGENDAS – None noted.

18. CLOSED SESSION. – Mr. Brunick indicated no need for closed session.

19. ADJOURNMENT – Chairman Page adjourned the meeting at 4:49 pm.

Approved:

  
Joanne Lowrance, Secretary

May 24, 2006

**Attachments on-file:**

Item No. 8 – Signed documentation

Item No. 9 – Signed documentation

Item No. 10 – Signed documentation

Item No. 11 – Signed documentation

Item No. 12 – Signed documentation

Sign-in sheets

*\*Audio recording of this meeting available upon request.*



**ATTENDANCE  
MOJAVE BASIN AREA WATERMASTER  
REGULAR MEETING**

Date: March 22, 2006  
Time: 4:30 p.m.  
Meeting Place: Mojave Water Agency Board Room

---

**DIRECTORS:**

Div. #1 *Kimberly Cox*  
Kimberly Cox

Div. #2 *Jim Ventura*  
Jim Ventura

Div. #3 *Richard D. Hall*  
Richard D. Hall

Div. #7 *Dick Fortyune*  
Dick Fortyune

Div. #4 *Mike Page*  
Mike Page

Div. #5 *Art Bishop*  
Art Bishop

Div. #6 *Beverly Lewis*  
Beverly Lewis

**MWA STAFF:**

1. *[Signature]*
2. *[Signature]*
3. *[Signature]*
4. *[Signature]*
5. *[Signature]*
6. *[Signature]*

7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

**CONSULTANTS:**

1. *[Signature]*
2. *Bob Wagner*

3. \_\_\_\_\_
4. \_\_\_\_\_

# MOJAVE BASIN AREA WATERMASTER

FOR  
CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 - RIVERSIDE COUNTY SUPERIOR COURT

## MEMORANDUM

Date: March 22, 2006  
To: Watermaster  
From: Kirby Brill, Executive Officer  
Re: Permanent Transfers of Base Annual Production Right

---

The following permanent water transfers are proposed for processing at the March 22, 2006 Watermaster meeting.

- A. Ken Luth to Udderly Gold Farms, LLC  
**27 acre-feet, including 21 acre-feet of Carryover Right, in the Alto Subarea**  
**Selling Price: Included in Sale of Property**  
This is a transfer of BAP pursuant to the Rules and Regulations.
- B. Gregory M. & Lisa A. Morck to Dora Land, Inc.  
**15 acre-feet, including 12 acre-feet of Carryover Right, in the Alto Subarea**  
**Selling Price: \$2,500 per acre-foot**  
This is a transfer of BAP pursuant to the Rules and Regulations.
- C. Robin & Judith Mitchell to Elaine Trahan  
**36 acre-feet, including 29 acre-feet of Carryover Right, in the Alto Subarea**  
**Selling Price: Included in Sale of Property**  
This is a transfer of BAP pursuant to the Rules and Regulations.
- D. Elaine Trahan to Trahan, et al.  
**36 acre-feet, including 29 acre-feet of Carryover Right, in the Alto Subarea**  
**Selling Price: Included in Sale of Property**  
This is a transfer of BAP pursuant to the Rules and Regulations.
- E. Joette Jones to Aqua Capital Management, LLC  
**30 acre-feet, including 24 acre-feet of Carryover Right, in the Centro Subarea**  
**Selling Price: \$1,030 per acre-foot**  
This is a transfer of BAP pursuant to the Rules and Regulations. Joette Jones will have 32 acre-feet of BAP remaining if this transfer is accepted by Watermaster.



- F. Thomas A. & Patricia C. Purcio to Bryan C. Haas & Mary H. Hinkle  
**80 acre-feet, including 64 acre-feet of Carryover Right, in the Baja Subarea**  
**Selling Price: Included in Sale of Property**  
This is a transfer of BAP pursuant to the Rules and Regulations.
- G. Raymond Ward to Porter G. & Anita E. Smith  
**25 acre-feet in the Baja Subarea**  
**Selling Price: Included in Sale of Property**  
This is a transfer of BAP pursuant to the Rules and Regulations. Raymond Ward will have 105 acre-feet of BAP remaining if this transfer is accepted by Watermaster.
- H. Andy Malln & Paula Solomon to James N. Jackson, Jr. Revocable Trust  
**54 acre-feet, including 44 acre-feet of Carryover Right, in the Baja Subarea**  
**Selling Price: Included in Sale of Property**  
This is a transfer of BAP pursuant to the Rules and Regulations.
- I. David P. Ball to Bank of America (Foreclosure)  
**81 acre-feet, including 65 acre-feet of Carryover Right, in the Baja Subarea**  
**Selling Price: N/A**  
This is a transfer of BAP pursuant to the Rules and Regulations.
- J. Bank of America to Quigg and Company, Inc.  
**81 acre-feet, including 65 acre-feet of Carryover Right, in the Baja Subarea**  
**Selling Price: Included in Sale of Property**  
This is a transfer of BAP pursuant to the Rules and Regulations.

**Action:**

**Staff recommends that the Watermaster accept for filing the permanent transfers of Base Annual Production Right listed above, based on the finding that they are consistent with the Watermaster Rules and Regulations.**

<b>Watermaster Action:</b>	<u>Approved Staff's recommendation.</u>
<b>Conditions:</b>	<u>None.</u>
<b>Date:</b>	<u>March 22, 2006</u>
<b>Executive Officer:</b>	<u><i>Kin Ball</i></u>

# MOJAVE BASIN AREA WATERMASTER

FOR  
CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 - RIVERSIDE COUNTY SUPERIOR COURT

## MEMORANDUM

Date: March 22, 2006  
To: Watermaster  
From: Kirby Brill, Executive Officer  
Re: Public hearing to receive comments and recommendations on the draft Watermaster Annual Report for Water Year 2004-05


A draft of Appendix B of the Annual Report showing verified water production and Replacement and Makeup Water Obligations and Assessments for the 2004-05 Water Year was mailed to all producers on January 31, 2006. The Watermaster held a public hearing on February 22, 2006 to receive comments on Appendix B.

A draft of the Twelfth Annual Report was presented to the Watermaster on February 22, 2006. A notice was mailed to all producers on February 23, 2006 indicating that the Annual Report was available for review and that the Watermaster would hold a public hearing to receive comments and recommendations for changes to the report on March 22, 2006.

Comments were received from Mr. Tom Ferruzzo (attached) regarding Chapter 5 text pertaining to the Baja Subarea proposed Free Production Allowance. Staff's response to Mr. Ferruzzo's concerns is attached.

### Action:

Staff recommends that the Watermaster conduct a public hearing to receive comments and recommendations for changes to the Annual Report, accept the Annual Report as final and authorize staff to file the Annual Report with the Court no later than April 1, 2006.

Watermaster Action:	Approved Staff's recommendation.
Conditions:	None.
Date:	March 22, 2006
Executive Officer:	

# MOJAVE BASIN AREA WATERMASTER

FOR  
CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 - RIVERSIDE COUNTY SUPERIOR COURT

## MEMORANDUM

Date: March 22, 2006  
To: Watermaster  
From: Kirby Brill, Executive Officer  
Re: Public hearing to adopt the proposed Administrative Budget and Assessment Rates for Water Year 2006-07


Attached is a copy of the draft Administrative Budget and Assessment Rates for Water Year 2006-07, which was sent to all producers on January 31, 2006. The Watermaster held a public hearing on February 22, 2006 to receive comments on the proposed Budget and Assessment Rates.

A notice was mailed to all producers on February 23, 2006 indicating that the Administrative Budget and Assessment Rates would be adopted at the March 22, 2006 Watermaster meeting.

### Action:

Staff recommends that the Watermaster conduct a public hearing and adopt the following Administrative Budget and Assessment Rates to be effective during Water Year 2006-07.

Estimated Administrative Budget	\$ 478,538.00
Administrative Assessment Rate	\$ 3.10 per acre-foot of Production
Biological Assessment Rate	\$ 0.68 per acre-foot of Production
Makeup Water Assessment Rate	\$ 354.00 per acre-foot
Replacement Water Assessment Rate	Alto \$ 277.00 per acre-foot
	Baja \$ 371.00 per acre-foot
	Centro \$ 356.00 per acre-foot
	Este \$ 277.00 per acre-foot
	Oeste \$ 277.00 per acre-foot

Watermaster Action: Approved Staff's recommendation.  
Conditions: None.  
Date: March 22, 2006  
Executive Officer: 

# MOJAVE BASIN AREA WATERMASTER

FOR  
CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 - RIVERSIDE COUNTY SUPERIOR COURT

## MEMORANDUM

Date: March 22, 2006  
To: Watermaster  
From: Kirby Brill, Executive Officer  
Re: Public hearing to adopt the proposed recommendation for Free Production Allowance for Water Year 2006-07

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Pursuant to paragraph 24 (o) of the Judgment the Watermaster is required to make a recommendation to the Court for adjusting the Free Production Allowance (Rampdown) of each Subarea, if necessary.

Pursuant to Exhibit D of the Judgment, Watermaster notified all parties of its recommendation for FPA by February 1, 2006, held a public hearing to receive comments as to its proposal on February 22, 2006 and notified all parties a second time on February 23, 2006 of the public hearing for adoption of FPA on March 22, 2006.

Watermaster is recommending FPA be set as follows for Water Year 2006-07:

<u>Subarea</u>	<u>FPA Recommendation</u>
Este <sup>1</sup>	80% of Base Annual Production
Oeste	80% of Base Annual Production
Alto – Agriculture	80% of Base Annual Production
Alto – Municipal & Industrial	60% of Base Annual Production
Centro	80% of Base Annual Production
Baja <sup>2</sup>	70% of Base Annual Production <u>or</u> 75% of Base Annual Production pursuant to the Court Order dated December 29, 2005

<sup>1</sup> FPA to be set at 80% of Base Annual Production for the 2006-07 Water Year. The Este Subarea may be subject to future Rampdown to 65% immediately if water use conditions change.

<sup>2</sup> The Baja Subarea Advisory Committee submitted a proposal to the Court for an alternative to the Rampdown mandated by the Judgment which includes a recommendation to set FPA at 75% (starting in 2005-06) of Base Annual Production for ten years pursuant to certain restrictions. The Baja SAC proposal was ordered by the Court on December 29, 2005 and a copy was mailed to all Baja parties on January 5, 2006.



**Action:**

**Staff recommends that the Watermaster conduct a public hearing, adopt the proposed Free Production Allowances and direct legal counsel to request a hearing with the Court to consider the proposed Free Production Allowances for Water Year 2006-07 detailed above.**

<b>Watermaster Action:</b>	<u>Approved Staff's recommendation.</u>
<b>Conditions:</b>	<u>None.</u>
<b>Date:</b>	<u>March 22, 2006</u>
<b>Executive Officer:</b>	<u><i>K. Bull</i></u>

# MOJAVE BASIN AREA WATERMASTER

FOR  
CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 - RIVERSIDE COUNTY SUPERIOR COURT

## MEMORANDUM

Date: March 22, 2006  
To: Watermaster  
From: Kirby Brill, Executive Officer  
Re: Consider Adoption of the recommended Subsurface Flow Between Subareas

---

The Judgment After Trial requires that Watermaster prepare a report and recommendation for revising the estimated subsurface flow obligations specified in the Judgment. The existing subsurface flow obligations were established based on the best information that was available at the time of trial. Watermaster prepared a report setting forth a methodology to determine whether or not there had been a change in the subsurface flow amount, and to monitor flow conditions as required by the Judgment.

Staff presented a workshop on February 22, 2006 regarding the estimated subsurface flow between Subareas and circulated a notice to parties with the recommended subsurface flow obligations. The report concluded that the estimates of subsurface flow in the Judgment should be unchanged, except for Oeste and Baja. For Oeste, we are recommending that no recommendation regarding subsurface flow be made, until ongoing hydrologic studies in Oeste are completed.

During the workshop comments were made by representatives from City of Barstow and the Department of Fish and Game questioning the recommendation as it pertains to Baja. The concern was that we were recommending that the subsurface flow from Baja to Afton be reduced to zero. This is not the case. We are recommending that Watermaster be relieved of the obligation to determine the subsurface flow, and that the Baja residents be relieved of the obligation to provide "Make up" water to Afton.

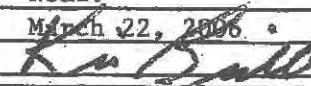
The obligation as it is embodied in the Judgment is a subsurface obligation from Baja to a point downstream of the MWA administrative boundary. It is simply not feasible or cost effective to provide water to such a point, nor is it apparent whether or not there would be any beneficiary. Further, the downstream interests at Afton and beyond receive water from large storm events, which will not be affected by the recommendation.

The summary report on subsurface flow was presented to Watermaster at the Workshop and made available for public review and comment. No written comments were received. We recommend the following obligations be approved:

<u>Subareas</u>	<u>Judgment Obligations</u>	<u>Proposed Obligations</u>
Este to Alto	200 acre-feet	200 acre-feet
Oeste to Alto	800 acre-feet	To be determined
Alto to Centro	2,000 acre-feet	2,000 acre-feet
Centro to Baja	1,200 acre-feet	1,200 acre-feet
Baja to Afton	400 acre-feet	0 acre-feet

**Action:**

Staff recommends that the Watermaster adopt the recommended subsurface flow obligations and authorize legal counsel to report to the Court the findings.

<b>Watermaster Action:</b>	Approved Staff's recommendation.
<b>Conditions:</b>	None.
<b>Date:</b>	March 22, 2006.
<b>Executive Officer:</b>	

**EXHIBIT B**





E. Michael Kaiser  
Judge  
Riverside Superior Court

Date: January 3, 1996

To: ALL COUNSEL

From: E. MICHAEL KAISER

Subject: ATTACHED AMENDED STATEMENT OF DECISION

The only amendment is on page 26,  
paragraph 7.

RECEIVED  
JUDICIAL DEPARTMENT  
96 JAN -5 2:10:59

**CLERK'S CERTIFICATE OF MAILING**  
(Original copy, duly executed, must be attached to  
original document at time of filing)  
(Unsigned copy must accompany document being mailed)

208568

I ARTHUR A. SIMS, Clerk of the Superior Court of California, for the County of Riverside, do hereby certify that I am not a party to the within action or proceeding; that on the \_\_\_\_\_ day of January, 1996, I served a copy of the paper to which this certificate is attached, to wit:

**AMENDED STATEMENT OF DECISION**

accompanied by an unsigned copy of this certificate, by depositing said copy enclosed in a sealed envelope with postage thereon fully prepaid, in the United States post office mail box at the City of Riverside, California, addressed as follows:

SEE ATTACHED MAILING LIST

Dated: \_\_\_\_\_

ARTHUR A. SIMS, Clerk

By \_\_\_\_\_, Deputy

1013a CCP  
331.1 (8/82)

CLERK'S CERTIFICATE OF MAILING

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By: Robert Corrado  
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Montebello, CA 90640

CONSOLIDATED SUPERIOR/MUNICIPAL COURTS  
MINUTES RIVERSIDE COUNTY

Case No.: 208568 Date: 1/2/96 Dept.: 4  
Case Name: CITY OF BARSTOW V CITY OF ADELANTO  
Counsel: See attached mailing list

Court Rptr: none  
Proceeding: AMENDED STATEMENT OF DECISION

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PROCEDURAL HISTORY

The original complaint was filed in this action by the City of Barstow and the Southern California Water Company on May 30, 1990. The complaint alleges that the cumulative water production upstream of Barstow has overdrafted the Mojave River System to the detriment of plaintiffs. The complaint requests that the defendants guarantee an average annual flow of 30,000 acre-feet to the Barstow area. The complaint also requests a writ of mandate against the Mojave Water Agency ("MWA") to compel it to perform its duties and to import water from the State Water Project. The defendants served with a summons and complaint have either answered, been given open extensions to answer, been dismissed, or had defaults entered against them.

On July 26, 1991, MWA filed its first amended cross-complaint in the case. The MWA first amended cross-complaint names substantially all water producers within the boundaries of the Mojave River Watershed, including parties downstream of Barstow. The MWA cross-complaint requests a declaration that the available native water supply is inadequate to meet the demands of the combined parties and a determination of the water rights of whatever nature within the MWA boundaries and the Mojave River Watershed.

On July 3, 1991, Arc Las Flores Limited Partnership ("Arc Las Flores") filed a cross-complaint for declaratory relief seeking a declaration that the overlying and riparian rights of Arc Las Flores be determined to be prior and paramount to any rights of the plaintiffs or other appropriators. The cross-complaint names the City of Barstow and the Southern California Water Company, as well as "Doe" defendants.

A cross-complaint was filed by the City of Adelanto.

\_\_\_\_\_  
KAISER, Judge

\_\_\_\_\_  
BURNS(ss), Clerk

recharge from periodic storm flows which is one of the principal sources of recharge for downgradient subareas without interference from upstream diversions. It will also benefit riparian vegetation in the lower subareas. [RT 510:4-511:0]

F. IDENTIFICATION OF SUBAREAS, SUBAREA

1. It is fair and equitable to maintain certain flow requirements between subareas as part of the physical solution. Flows to downstream subareas will be maintained either by supplemental water through the river and conveyance facilities, by purchase of transferred water by the watermaster, or by reductions in consumptive use. [RT 892:9-18; 910:14-18; 911:3-913:14]

2. The flow requirements between subareas are as follows: a) Este to Alto 200 acre-feet average annual subsurface flow as estimated in Bulletin 84; b) Oeste to Alto 800 acre-feet average annual subsurface flow as estimated in Bulletin 84; c) Alto to Centro 21,000 acre-feet average annual surface flow as measured at the lower narrows (and maintained by an immediate replacement water obligation in the transition zone to form a water bridge down to the Helendale Fault) plus a 2,000 acre-feet average annual subsurface flow as estimated in Bulletin 84; d) Centro to Baja 1,200 acre-feet average annual subsurface flow as estimated in Bulletin 84; e) Baja to the Mojave Basin 400 acre-feet average annual subsurface flow as estimated in Bulletin 84; f) these estimates and other subsurface estimates will need to be up-dated by the use of monitoring wells which will determine the water table slope at the boundaries. [RT 128:27-130:14]

The transition zone has a fairly stable water level. It is necessary to maintain that water level so that the surface flows passing the Lower Narrows and the subsurface inflow into the transition zone will reach the Helendale Fault, and hence downstream subareas; the flows at the Helendale Fault will in the future be measured using monitoring wells to insure that water levels are maintained within the transition zone. [RT 320:9-321:9]

G. ASSESSMENTS

1. The assessments imposed by the stipulated judgment are fair and equitable. It is not appropriate to require the Mojave Water Agency (MWA) to impose an ad valorem tax as part of the Physical Solution. Such a tax is not within the scope of the judgment, and is within the political prerogative of MWA.

2. Assessments apply to all production regardless of the type of use.



## **EXHIBIT C**



**BOARD OF DIRECTORS**  
**APPROVED ACTIONS – REGULAR MEETING**

**April 28, 2022**

*\*Please note that all requirements of the Brown Act requiring the physical presence of the Board or staff have been waived per original Executive Order N-29-20 and any amendments or modifications thereto.*

---

- 1. Invocation – Deronda Smith gave the invocation.**
- 2. Call to Order and Pledge of Allegiance**

The meeting was called to order at 9:30 a.m.

**Present:** President Jeanette Hayhurst, Vice President Mike Page, Secretary Michael Limbaugh, Treasurer Kimberly Cox, Director Jim Ventura Limbaugh, and Director Rick Roelle, Director Ken Anderson

**Absent:**

**Staff:** General Manager Allison Febbo, General Manager of Special Projects Kathy Cortner, Interim Assistant General Manager Yvonne Cox, Principal Hydrogeologist Tony Winkel and Executive Assistant La Trici Jones

**Absent:**

**Consultants/  
Guest Speakers:** Bill Brunick, Legal Counsel

There were approximately 57 participants in-person and via teleconference.

- 3. Approval of Agenda**

President Hayhurst stated that item 8 was removed from the agenda, there will be no legal report and items 11 and 12 will go before item 10 so the last item on the agenda will be acknowledgement of Kathy Cortner's retirement.

**Action #9140:** Director Cox made a motion to approve the agenda. Director Ventura seconded the motion, which was approved by a 7-0 vote.

**PUBLIC PARTICIPATION**

- 4. Public Comment – None**

**WORKSHOP**

**5. Centro Groundwater Review**

Mr. Winkel reviewed a detailed PowerPoint presentation on the water needs of the Centro area.

**CONSENT CALENDAR**

**6. Adopt Board Actions from Regular Meeting Dated April 14, 2022 and Special Meeting Dated April 26, 2022**

**7. Approve "Category B" Payments**

**Action #9141:** Director Page made a motion to approve the consent calendar. Director Cox seconded the motion, which was approved by a 7-0 vote.

**NEW BUSINESS**

**8. Consider Authorization for the Purchase of One Heavy Duty Service Truck for the Operations and Maintenance Department**

This item was removed from the agenda.

**9. Consider Authorization to import up to 5 TAF of State Water project Water for recharge to the Centro Subarea as an Emergency Drought Response Pilot Program**

Mr. Winkel reviewed a detailed PowerPoint presentation.

Discussion ensued.

Public comment was provided by: Tina Souza, Doug Matthews, Mark Franey, Otis Calef Mark and Judy Zimmerman and Perry Dahlstrom.

**Action #9142:** President Hayhurst made a motion to approve the import of up to 5,000 acre-feet of State Water Project water for recharge in Centro Subarea as an emergency drought response pilot program. Director Cox seconded the motion, which was approved by a 7-0 vote.

**10. Consider Adoption of a Resolution Acknowledging the Retirement of Kathy Cortner, General Manager; Mojave Water Agency**

**Action #9143:** Director Page made a motion to adopt a Resolution acknowledging the retirement of Kathy Cortner. Director Ventura on behalf of all the Board seconded the motion, which was approved by a 7-0 vote.

**REPORTS**

11. **Managers Reports** – General Manager Febbo welcomed two new Hydrogeologist to the Agency
12. **Legal Report** – None
13. **Director's Reports** – All of the Directors provided their sentiment and well-wishes for Kathy Cortner.

**OTHER BUSINESS**

14. **Discussion Items for Next or Future Agendas** – None

**CLOSED SESSION**

15. **CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION: Government Code Section 54956.9(A): City of Barstow, et al. v. City of Adelanto, et al., Case No. 208568 and Potential Litigation**

**ADJOURNMENT**

16. **Adjournment**

**Action #9144:** President Hayhurst adjourned the meeting at 11:21 A.M. in honor of Kathy Cortner

Approved:

  
\_\_\_\_\_  
Michael Limbaugh, Secretary

Date:

May 12, 2022

Attachments on File:

- |         |  |
|---------|--|
| Item #5 | PowerPoint Presentation – Centro Groundwater Review  |
| Item #9 | Staff Report and PowerPoint Presentation – Authorizing to Import up to 5TAF of SWP Water for recharge to the Centro Subarea as an emergency drought response pilot program |

Signed Documentation  
Sign-In Sheets



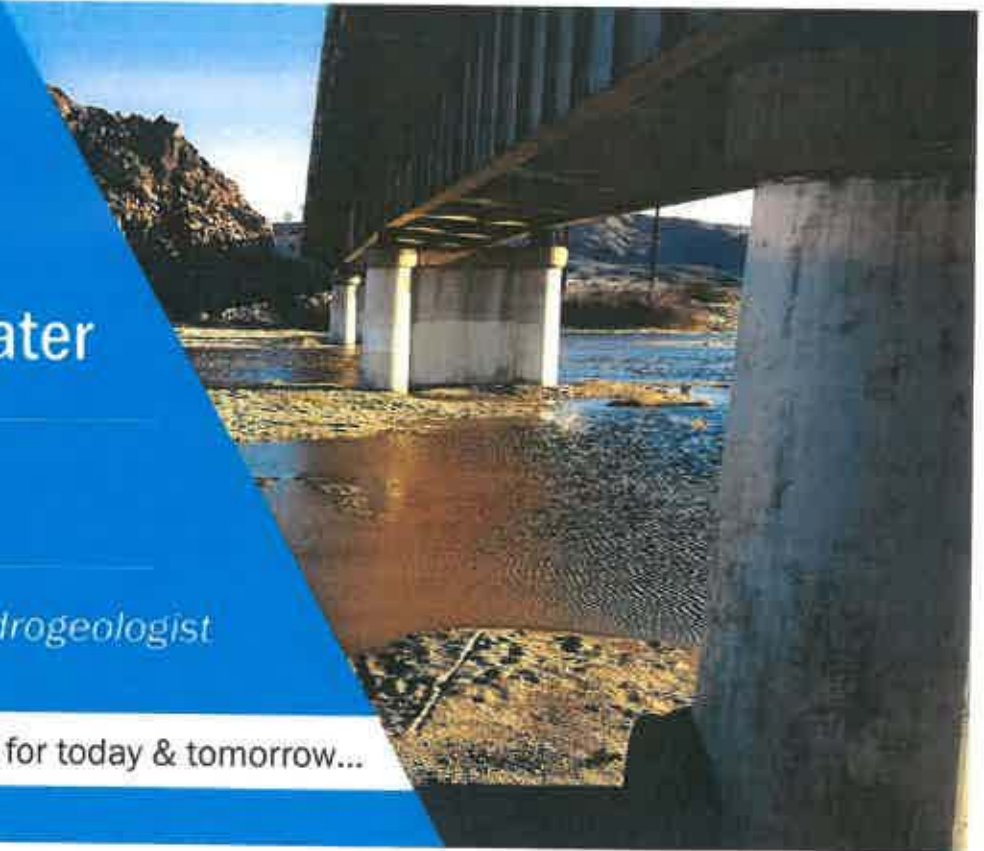


# Centro Groundwater

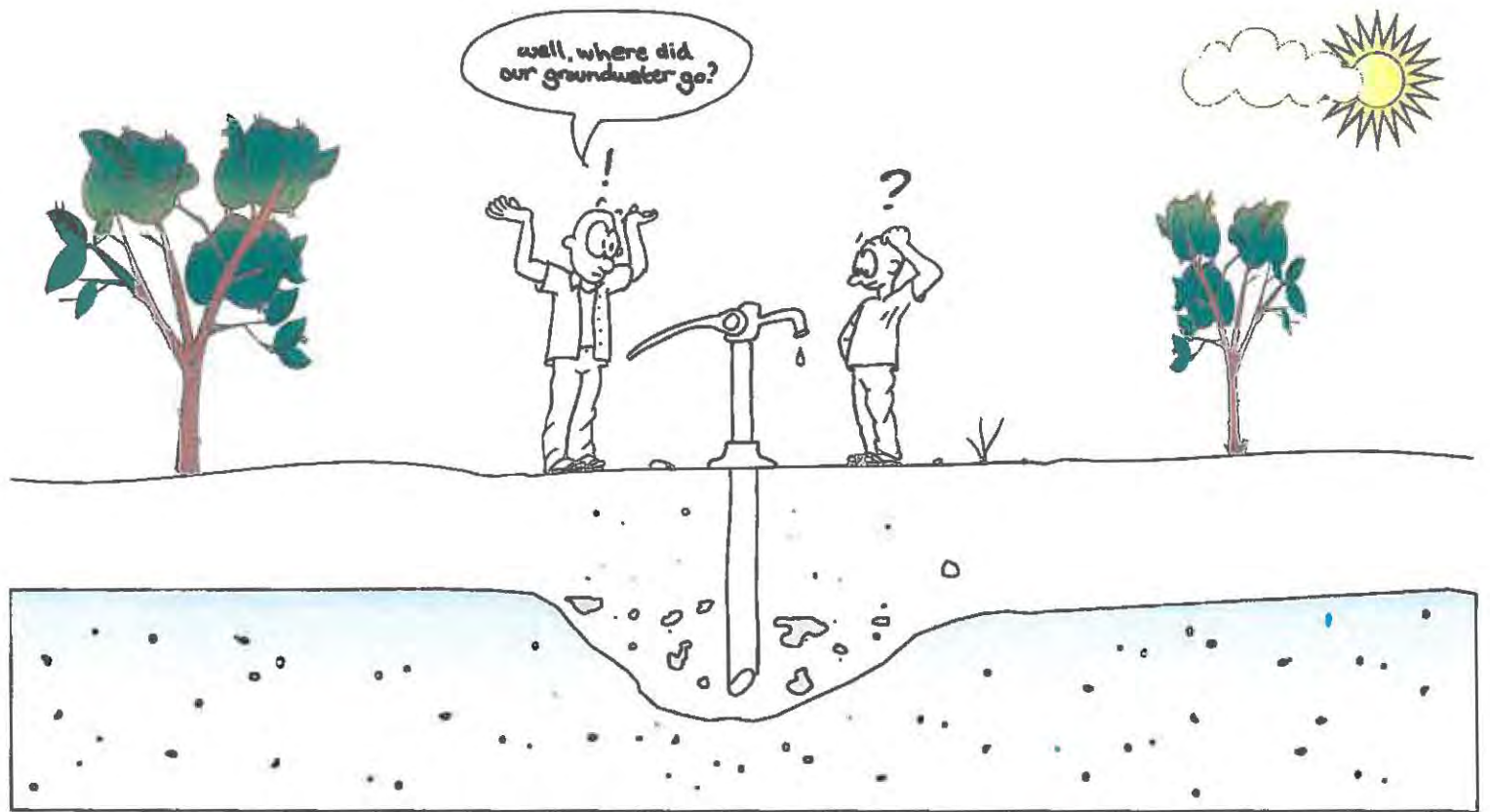
Board of Directors  
April 28, 2022

*Tony Winkel, Principal Hydrogeologist*

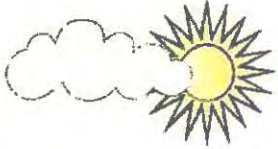
Together, we're securing water for today & tomorrow...







well, where did  
our groundwater go?



**You can't manage what  
you don't understand!**



## Background

- In response to request from Director Hayhurst on Sep 23, 2021
- Reports of Dry Domestic Wells
- GSW Comments to the Board



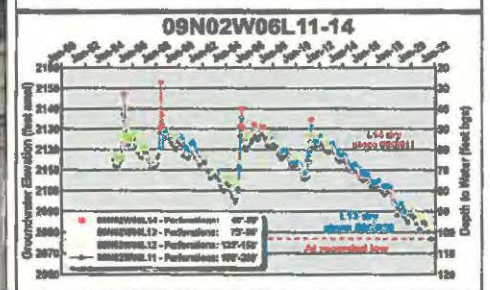
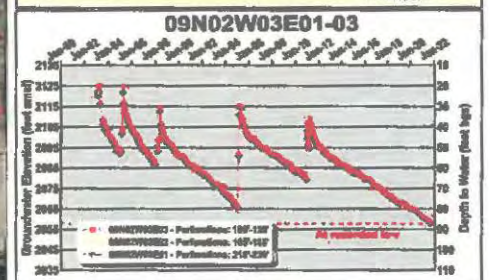
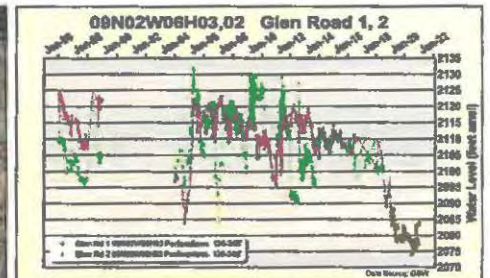
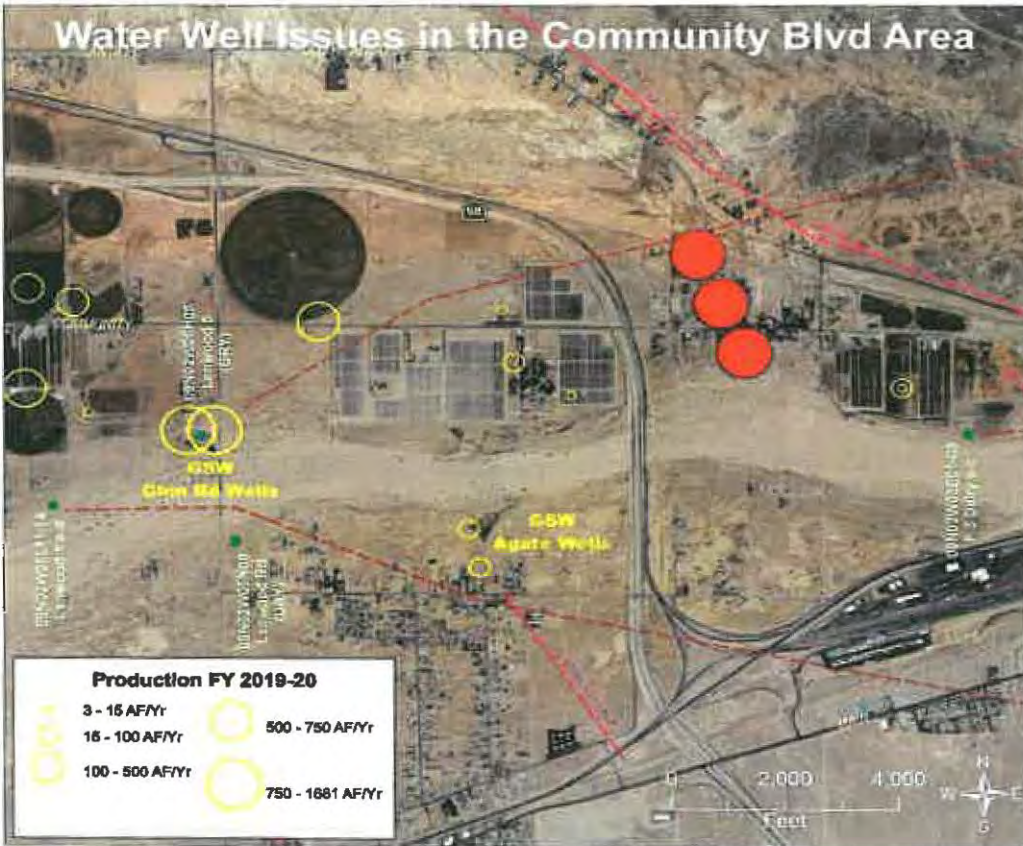
## Areas of Analysis

- Water levels in monitoring and production wells
- Historically low water levels in monitoring wells
- Minimal producer dry well investigation
- Studying relevant regional scientific reports (USGS, KJ/T, etc.)
- Precipitation and storm event behavior
- Current climate studies
- Depth to bedrock
- General Centro Subarea basin health by area analysis
- Surface flow at USGS gages by year
- Production, production location, and production type
- Well construction (production and domestic)
- Faults and barriers with water level analysis to confirm locations
- Water level surfaces by year
- Flow between Alto TZ and Centro Subareas
- Golden State Water's concerns

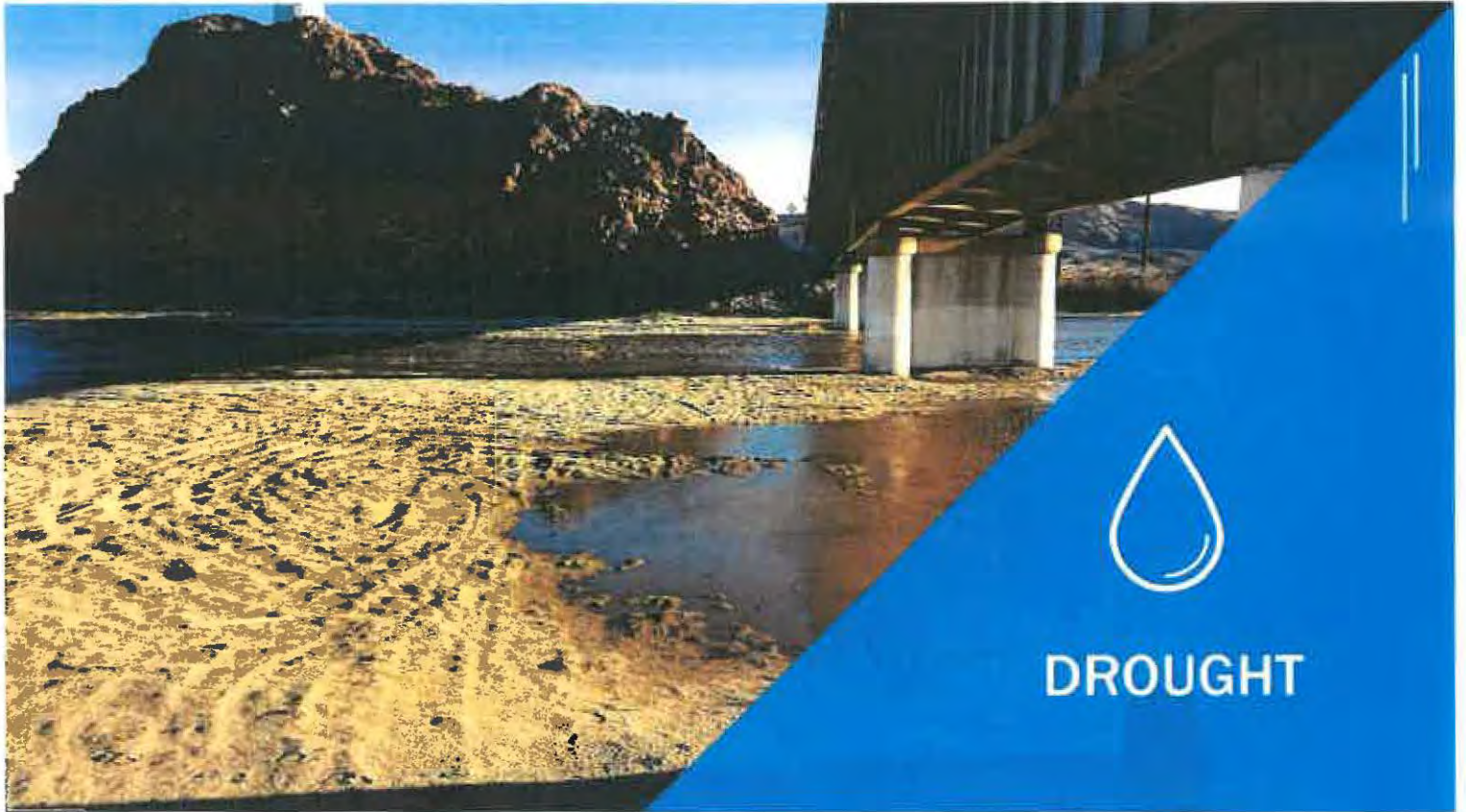




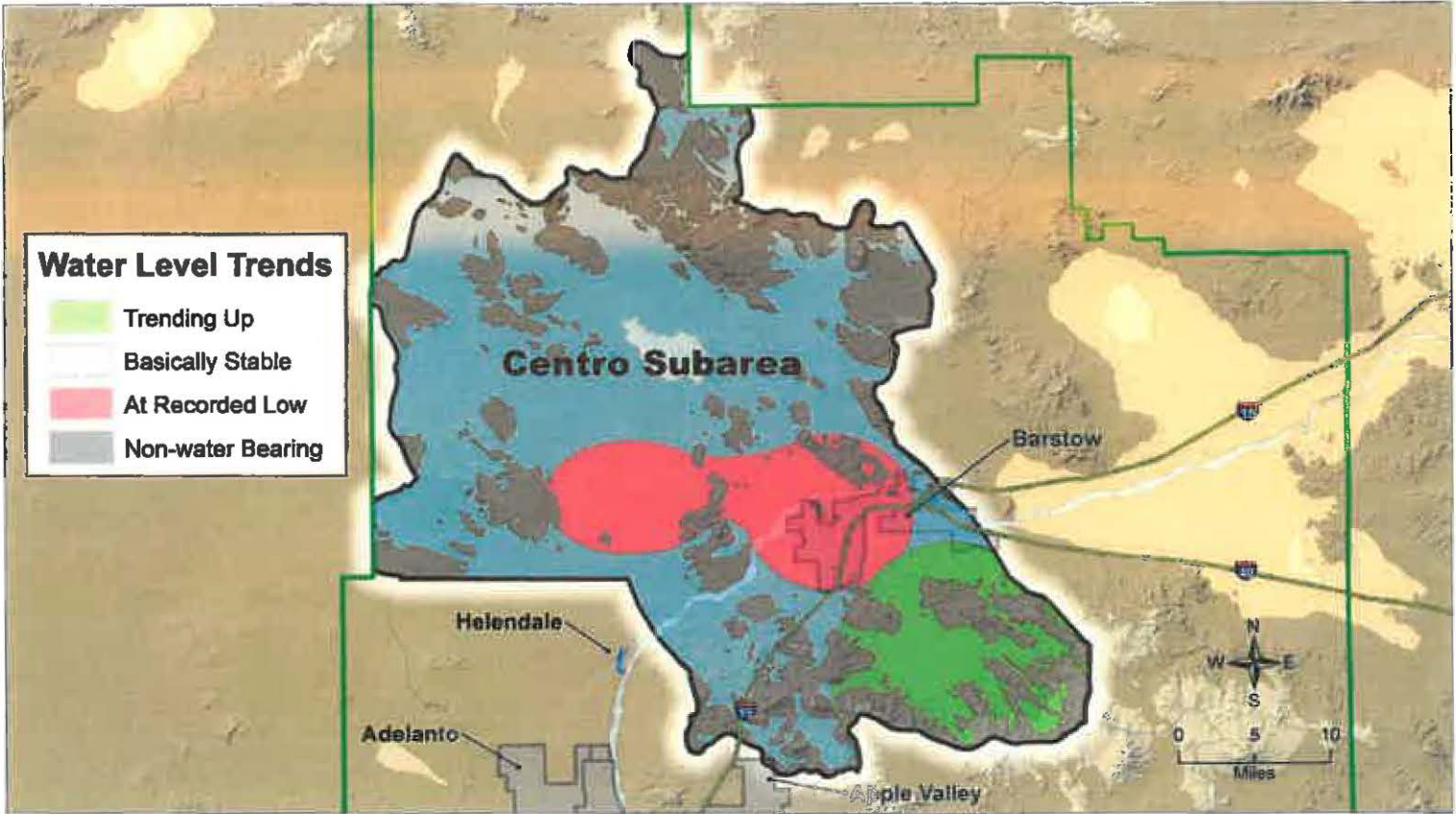
# Water Well Issues in the Community Blvd Area



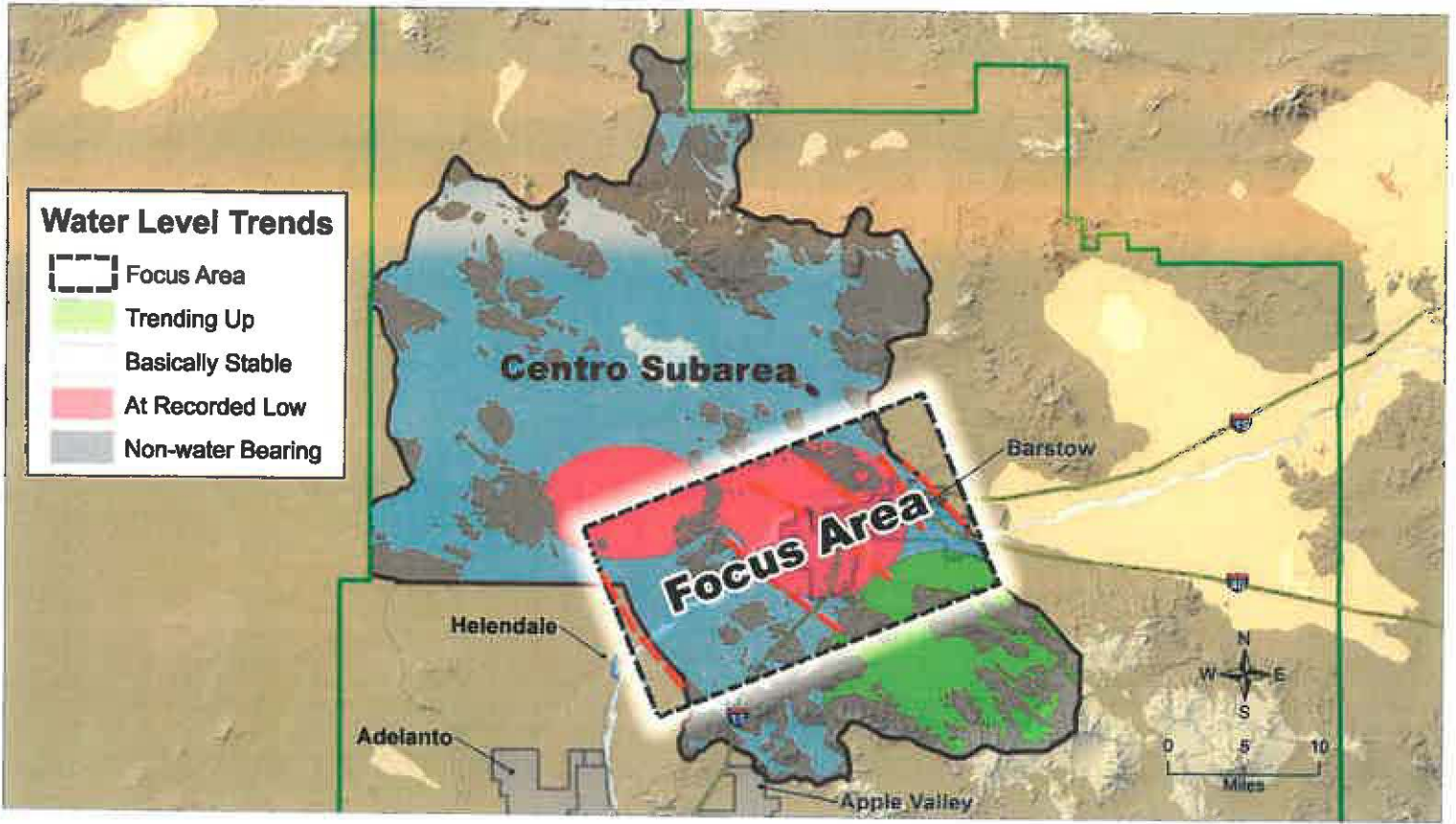




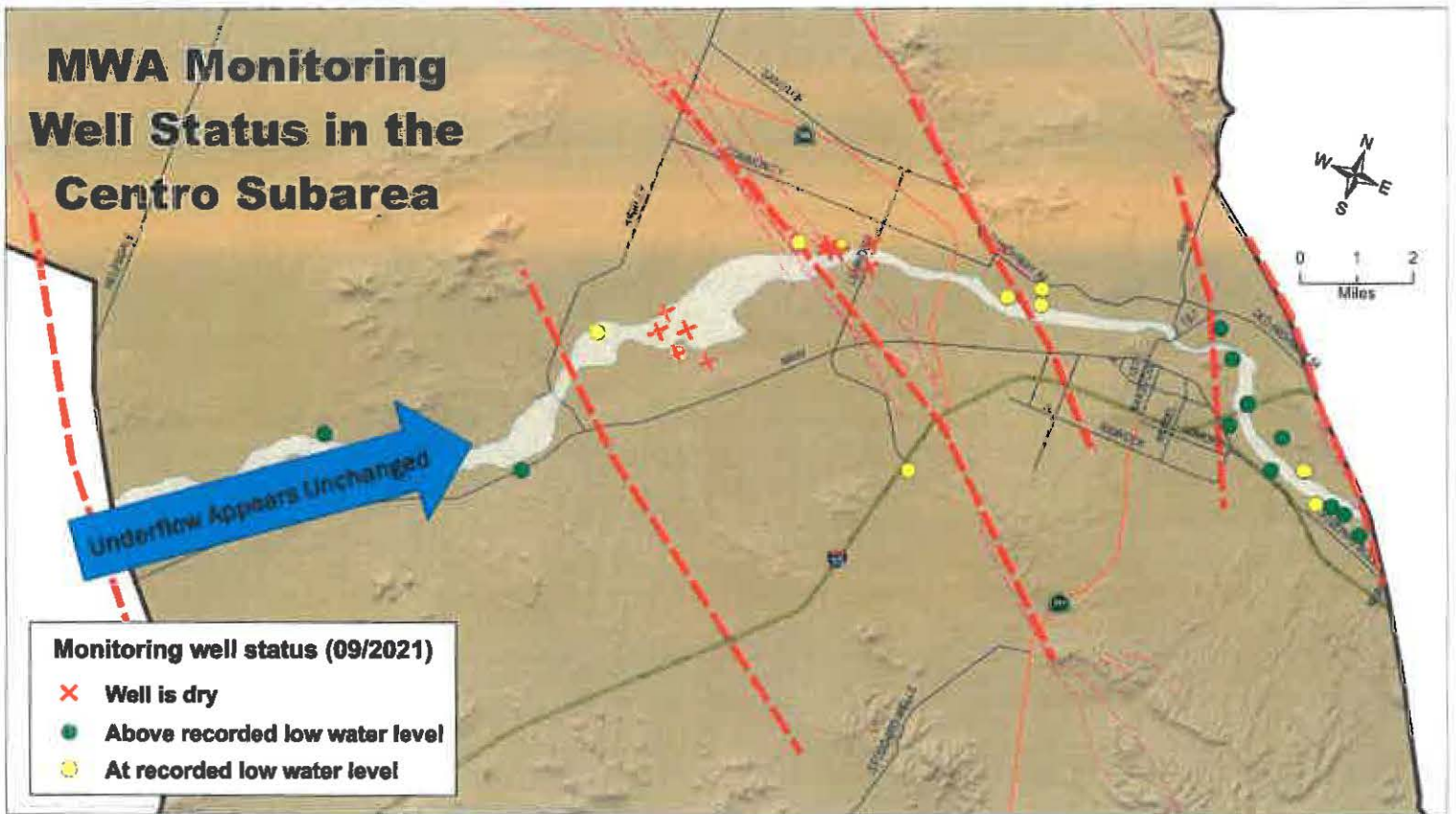
DROUGHT





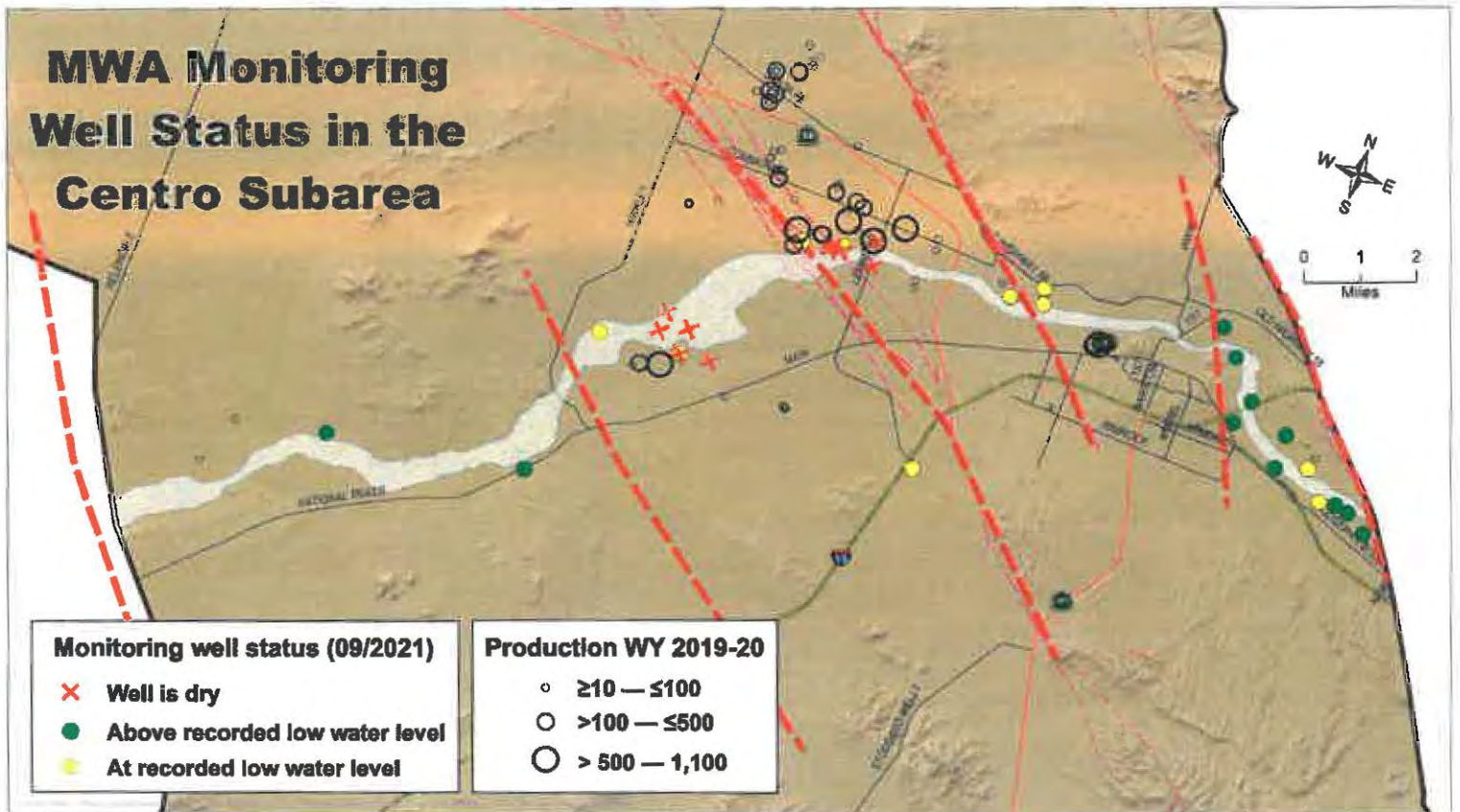


# MWA Monitoring Well Status in the Centro Subarea





# MWA Monitoring Well Status in the Centro Subarea

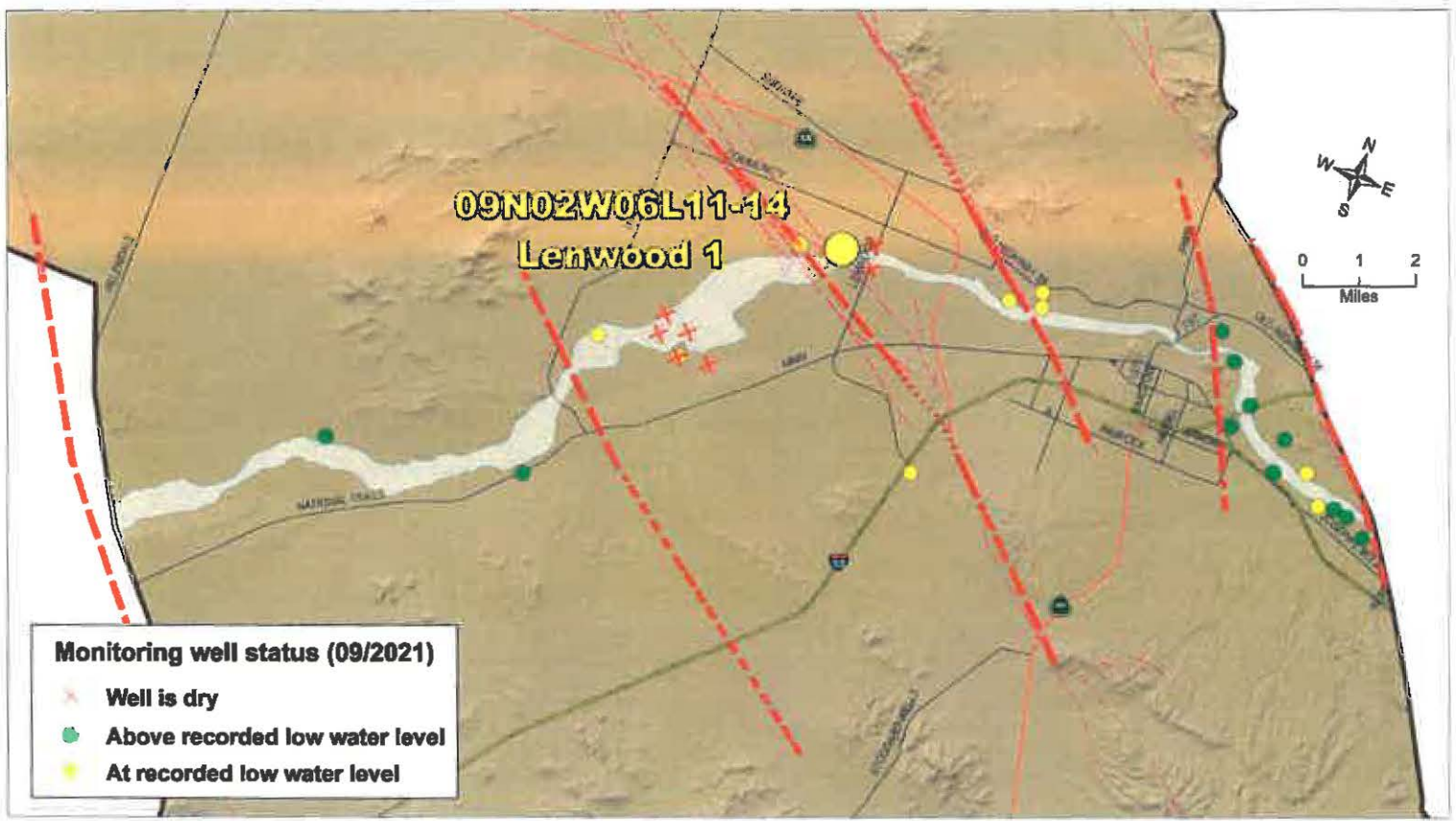


09N02W06L11-14  
Lenwood 1

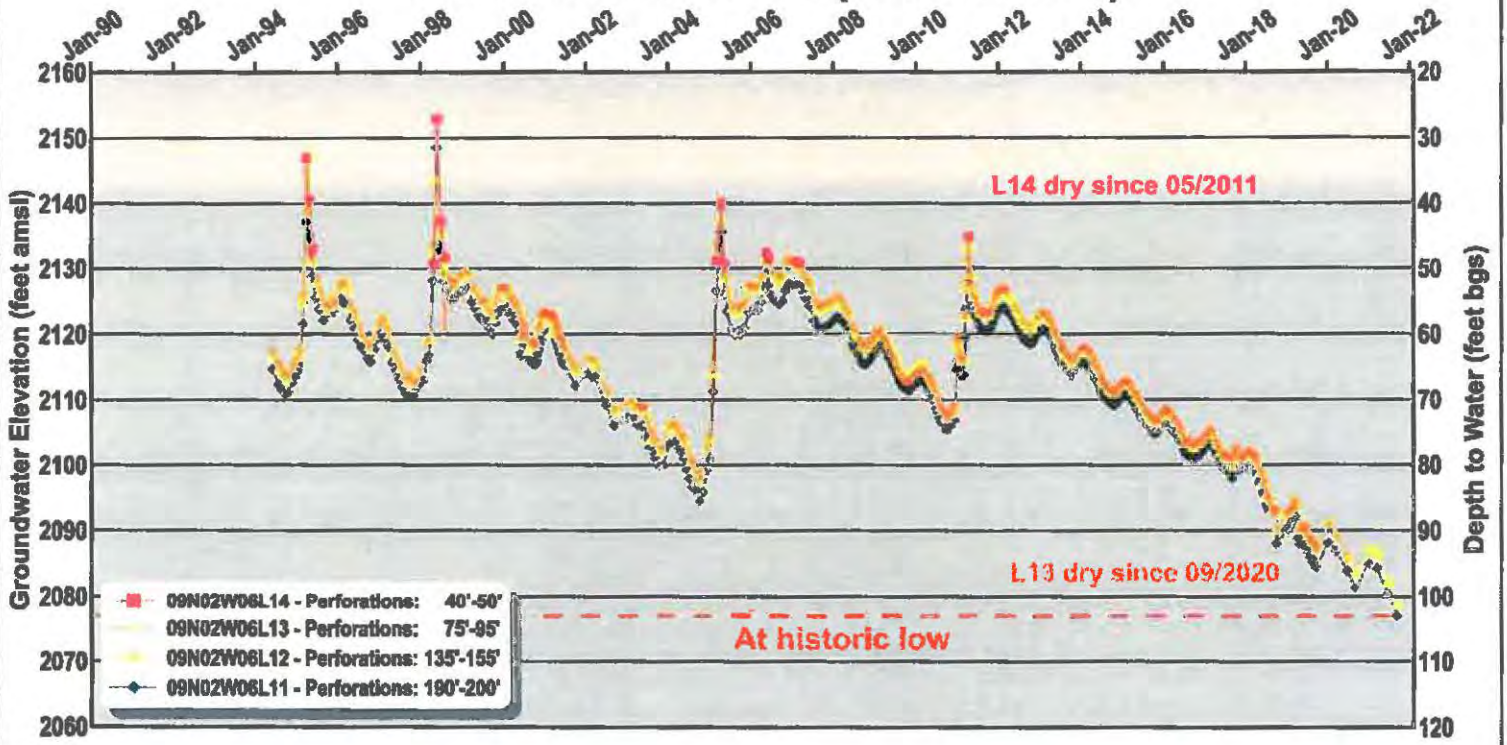


**Monitoring well status (09/2021)**

- ✕ Well is dry
- Above recorded low water level
- At recorded low water level

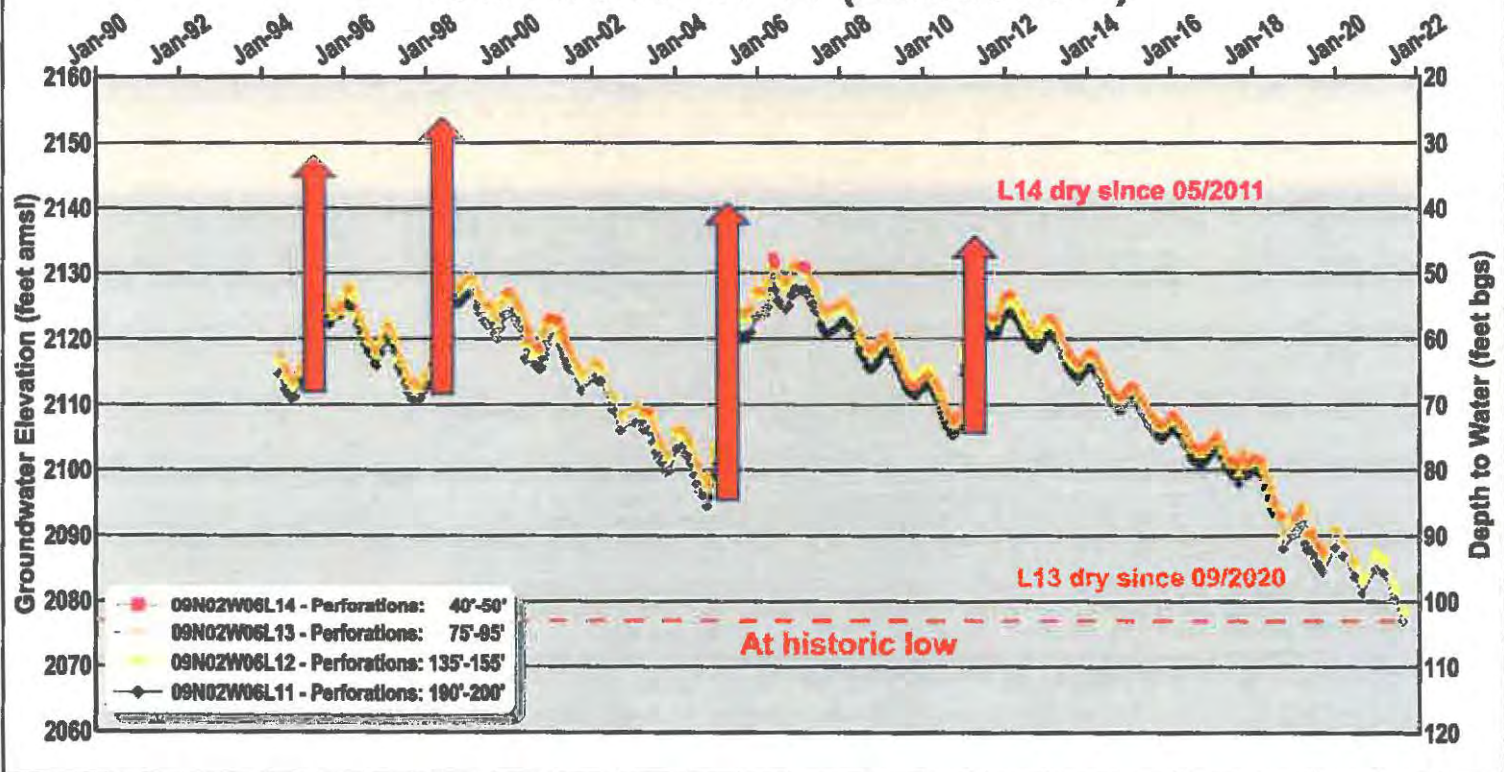


# 09N02W06L11-14 (Lenwood 1)





# 09N02W06L11-14 (Lenwood 1)



- 09N02W06L14 - Perforations: 40'-50'
- 09N02W06L13 - Perforations: 75'-85'
- 09N02W06L12 - Perforations: 135'-155'
- 09N02W06L11 - Perforations: 190'-200'

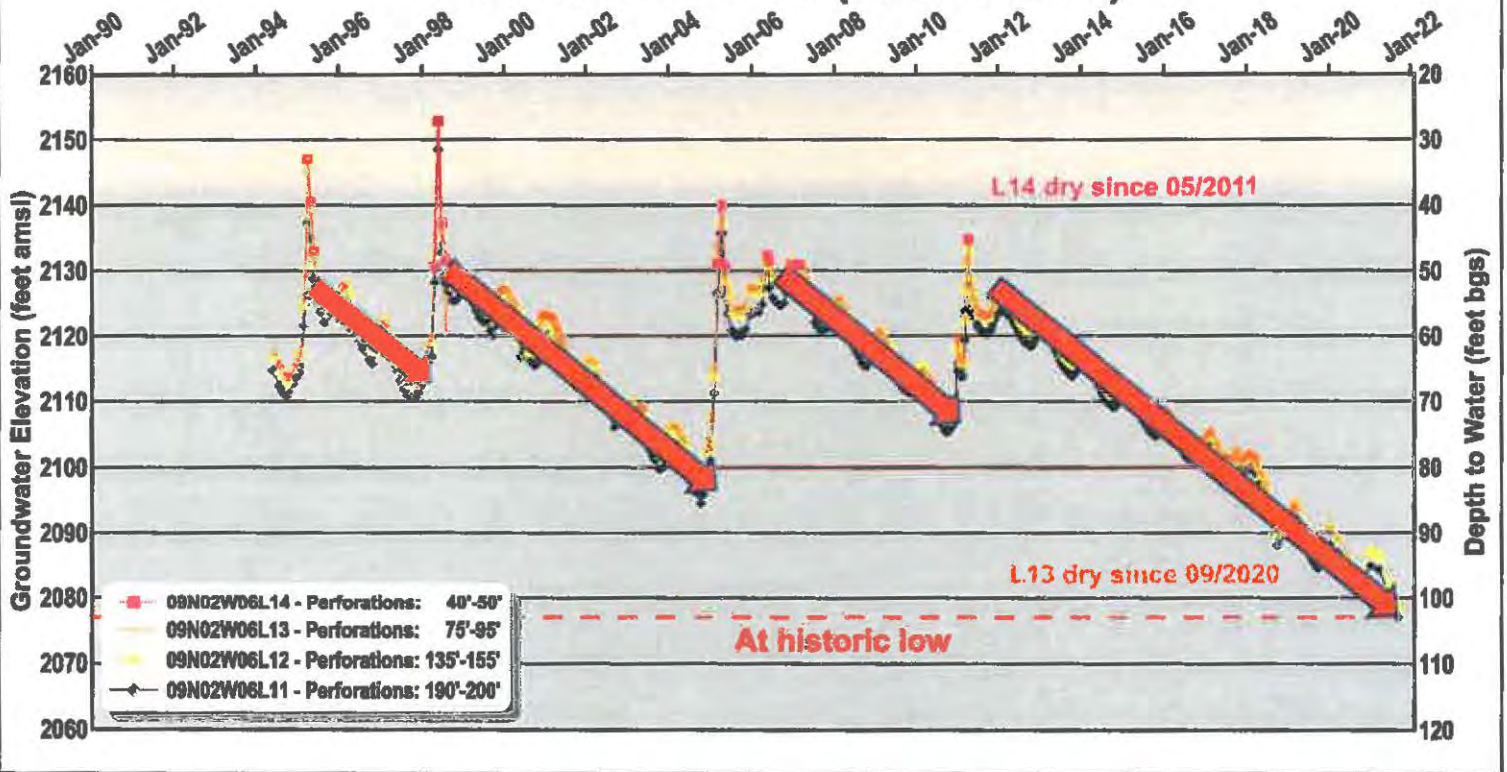
At historic low

L14 dry since 05/2011

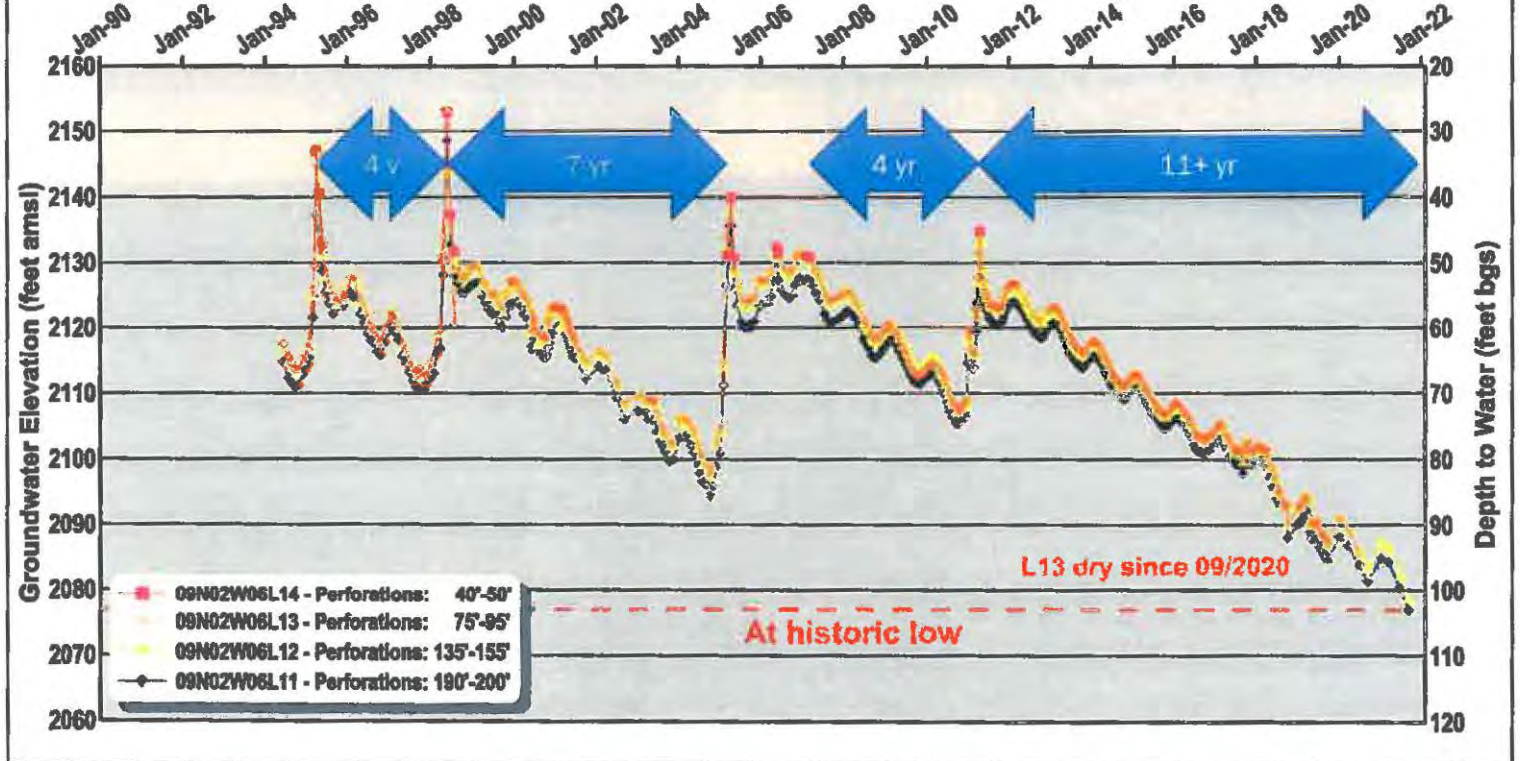
L13 dry since 09/2020



# 09N02W06L11-14 (Lenwood 1)



# 09N02W06L11-14 (Lenwood 1)

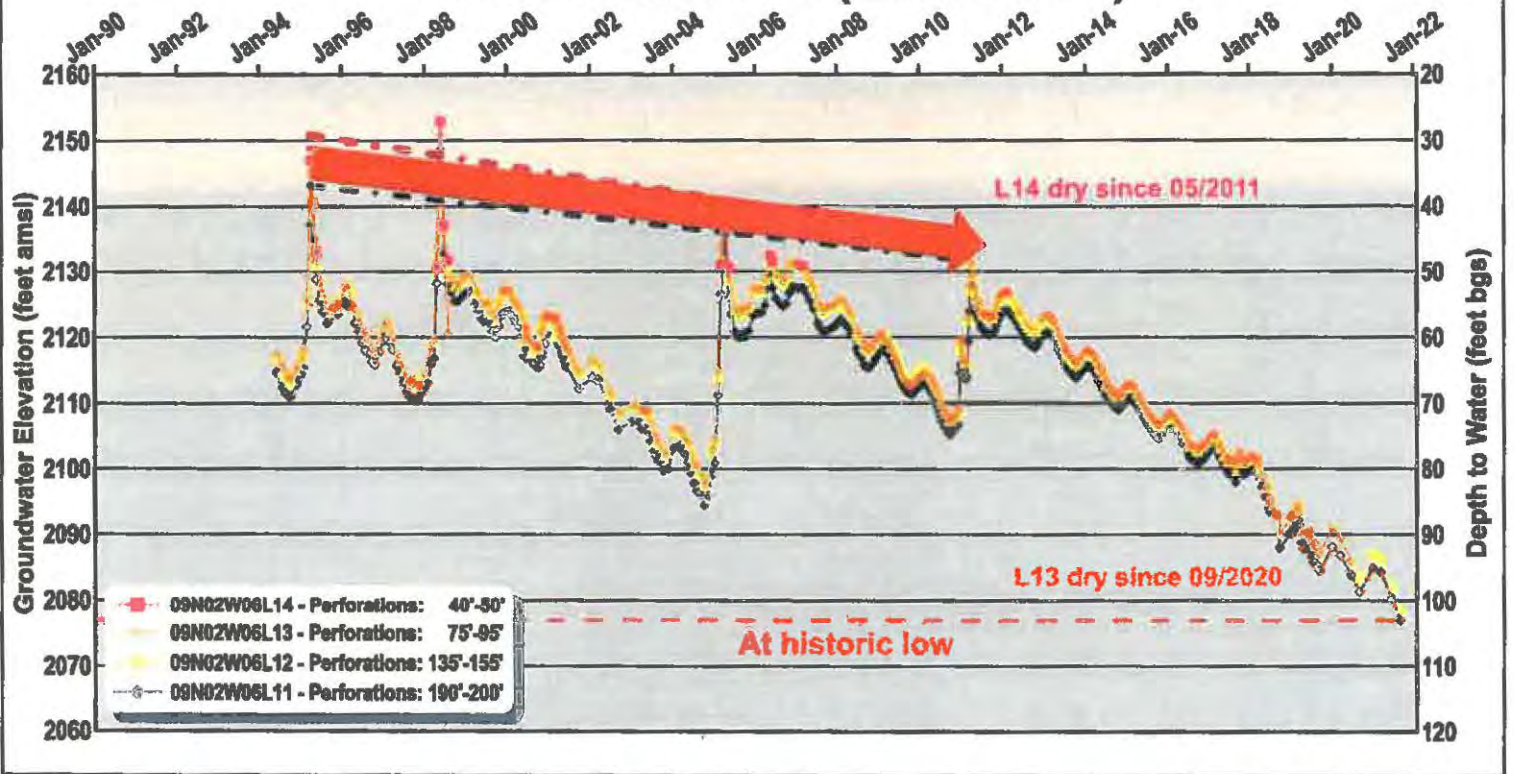


- 09N02W06L14 - Perforations: 40'-50'
- 09N02W06L13 - Perforations: 75'-95'
- 09N02W06L12 - Perforations: 135'-155'
- 09N02W06L11 - Perforations: 190'-200'

L13 dry since 09/2020

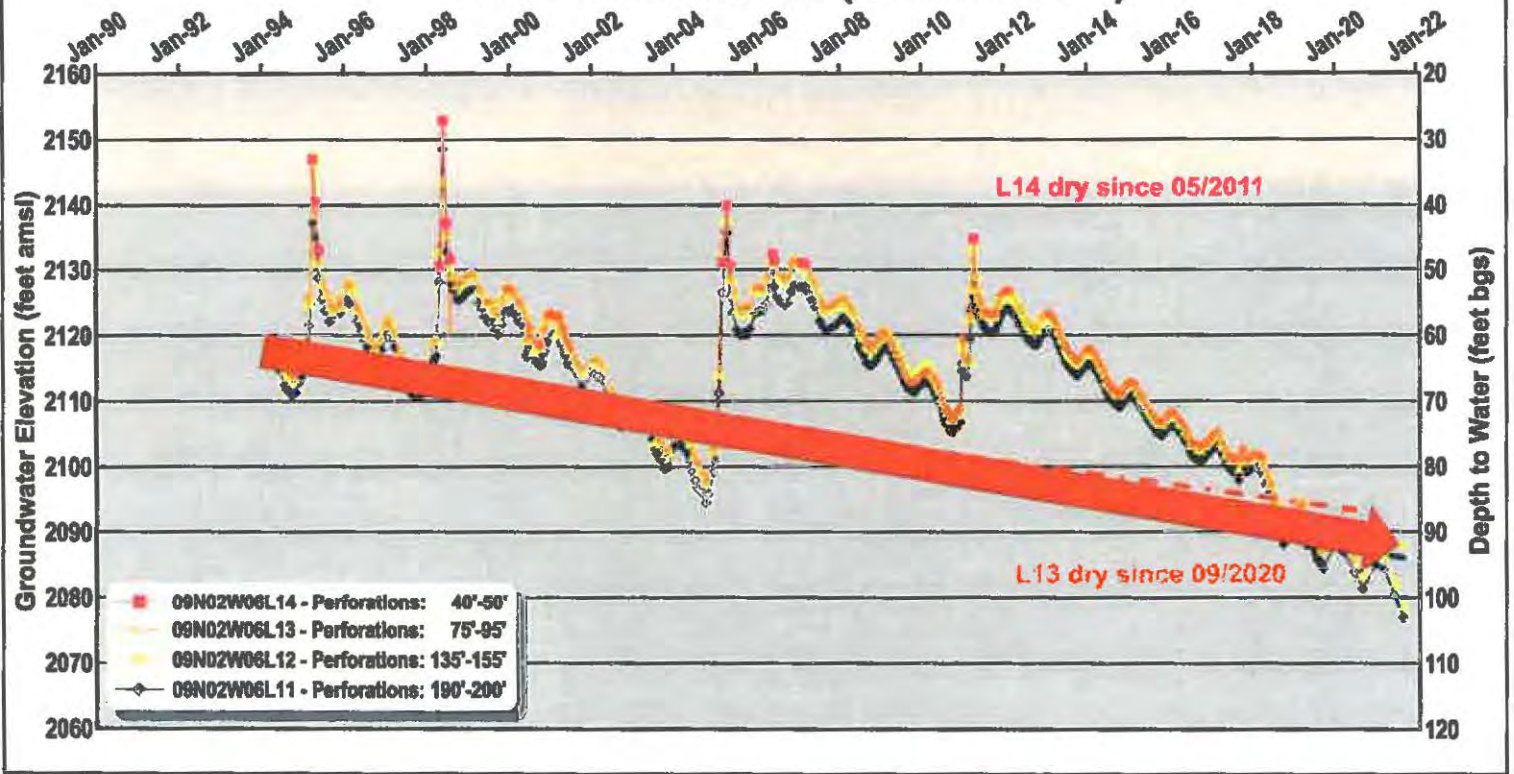
At historic low

# 09N02W06L11-14 (Lenwood 1)

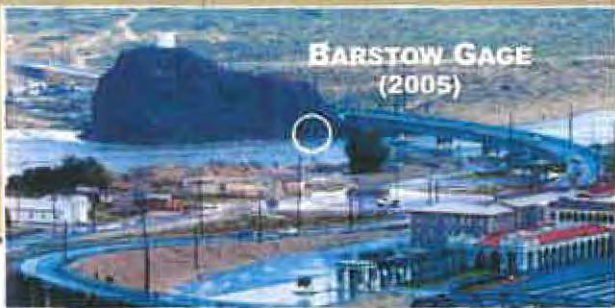




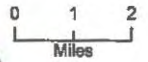
# 09N02W06L11-14 (Lenwood 1)








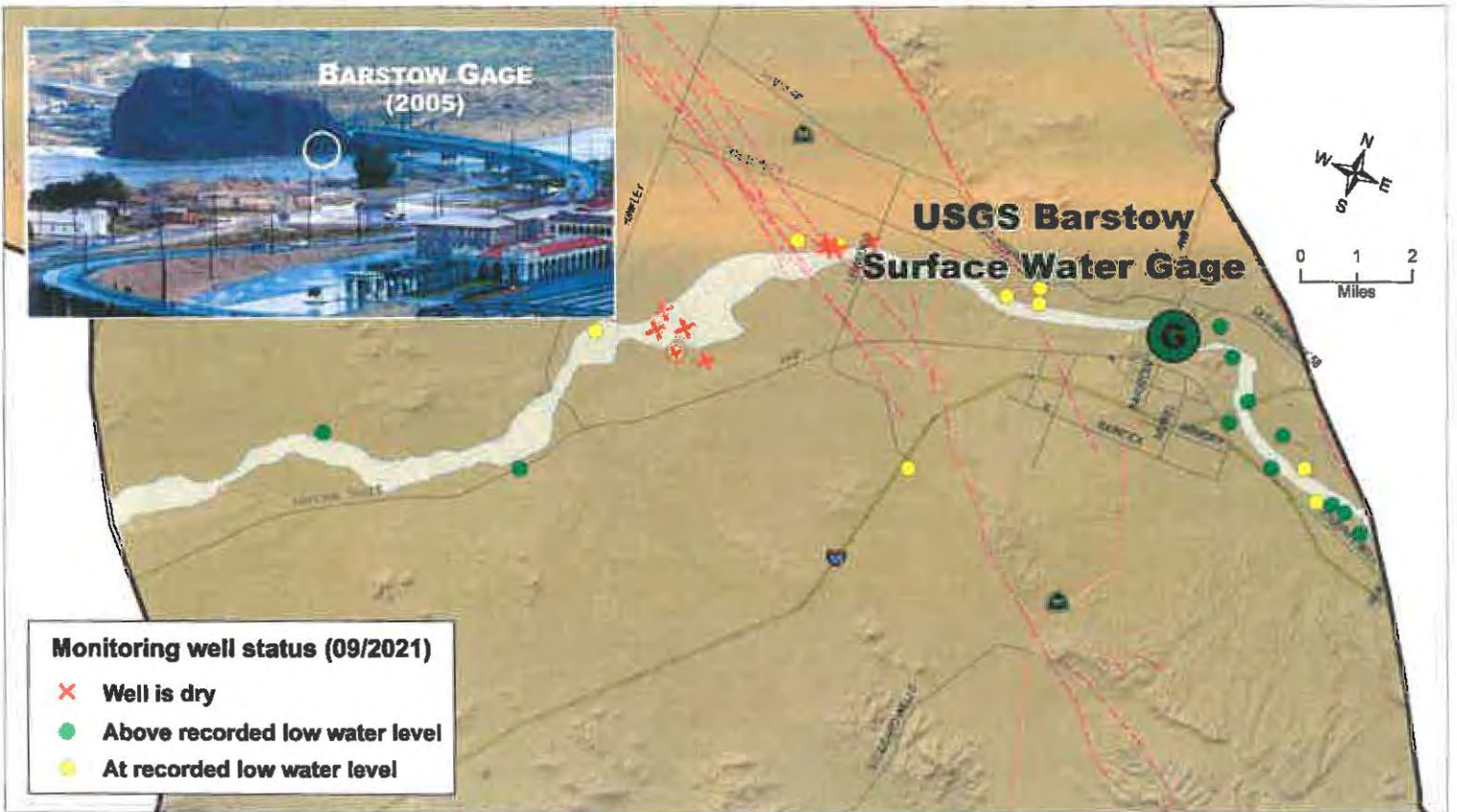


**USGS Barstow  
Surface Water Gage**

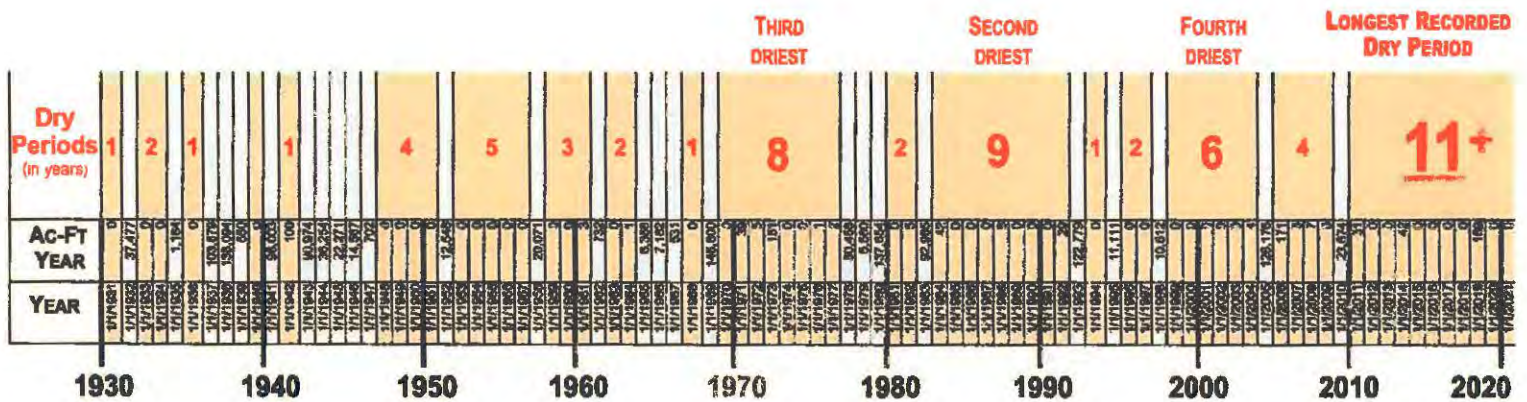


**Monitoring well status (09/2021)**

-  Well is dry
-  Above recorded low water level
-  At recorded low water level



# DRY PERIODS\* AT THE USGS BARSTOW SURFACE WATER GAGE 1931 TO 2021



DRY YEAR\*

WET YEAR

NO BACK-TO-BACK  
WET YEARS SINCE 1980

\*Years with less than 200 Ac-Ft / Year at the Barstow Gage

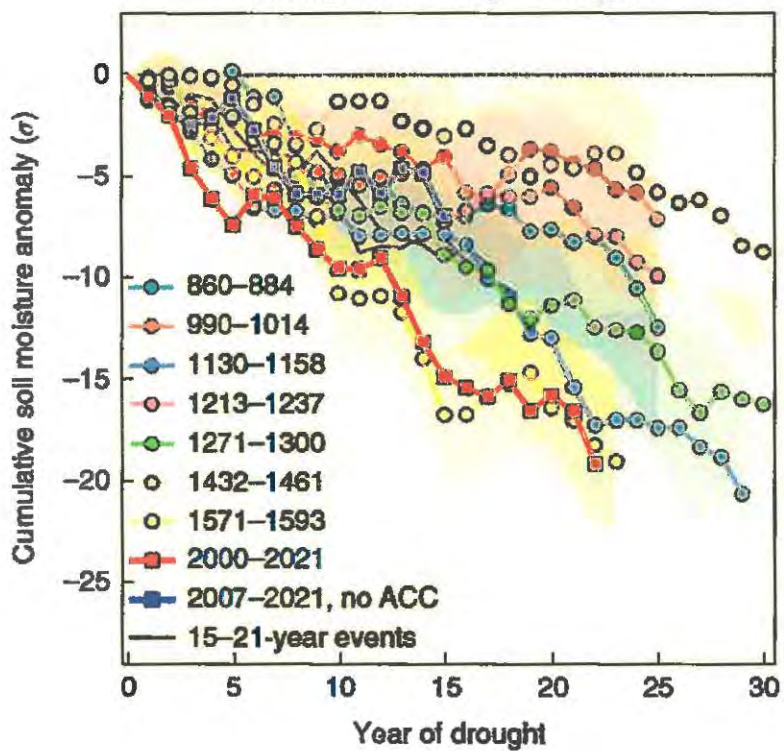
# Rapid intensification of the emerging southwestern North American megadrought in 2020–2021

A. Park Williams <sup>1,2</sup> , Benjamin I. Cook<sup>2,3</sup> and Jason E. Smerdon <sup>2</sup>

## “Multidecade Megadroughts”

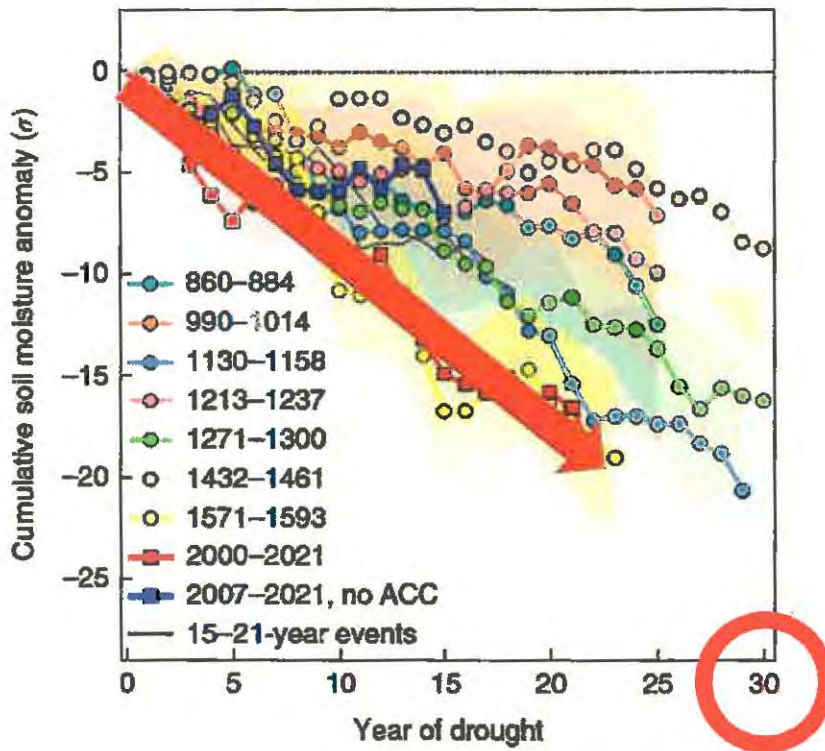
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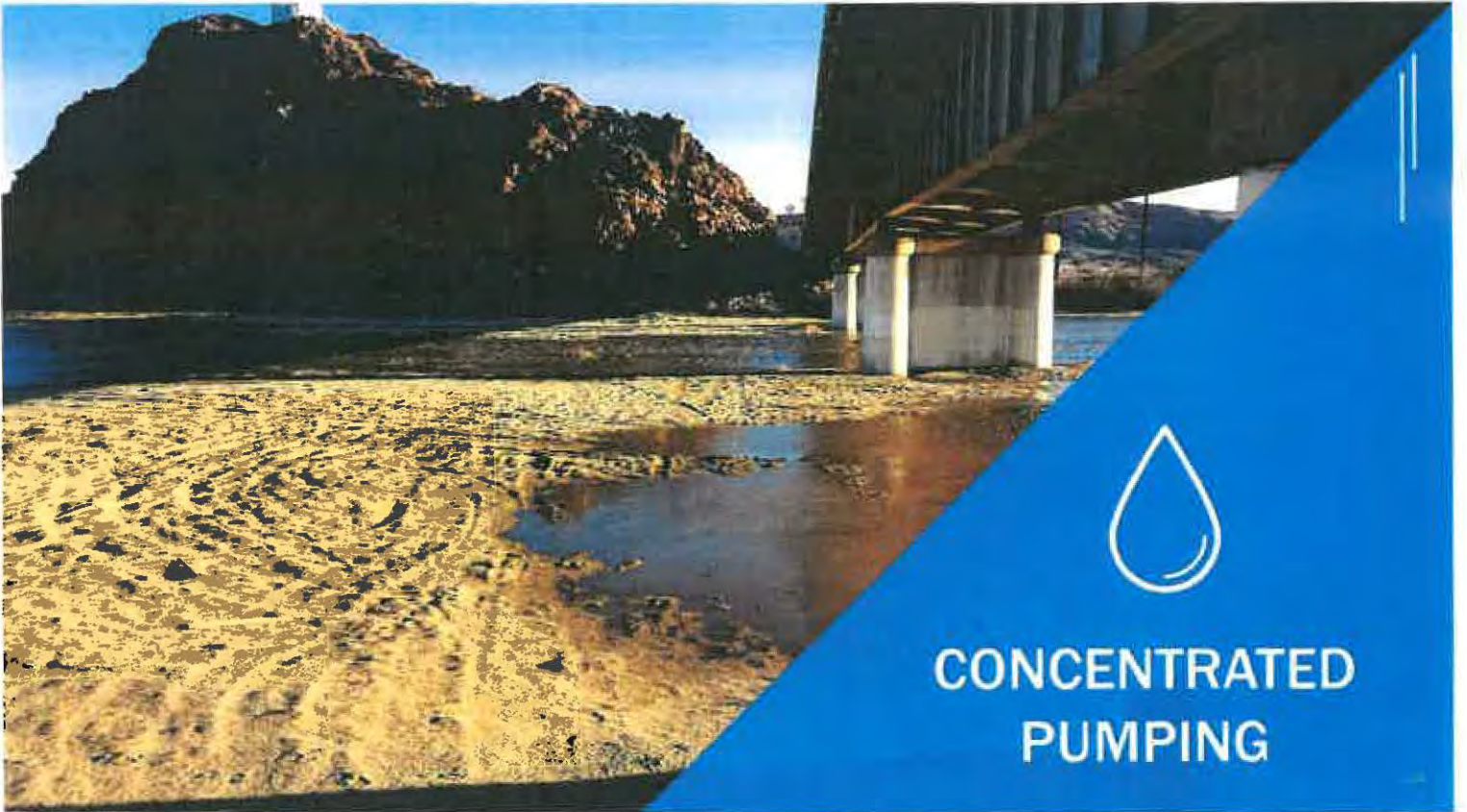
Development of longest droughts



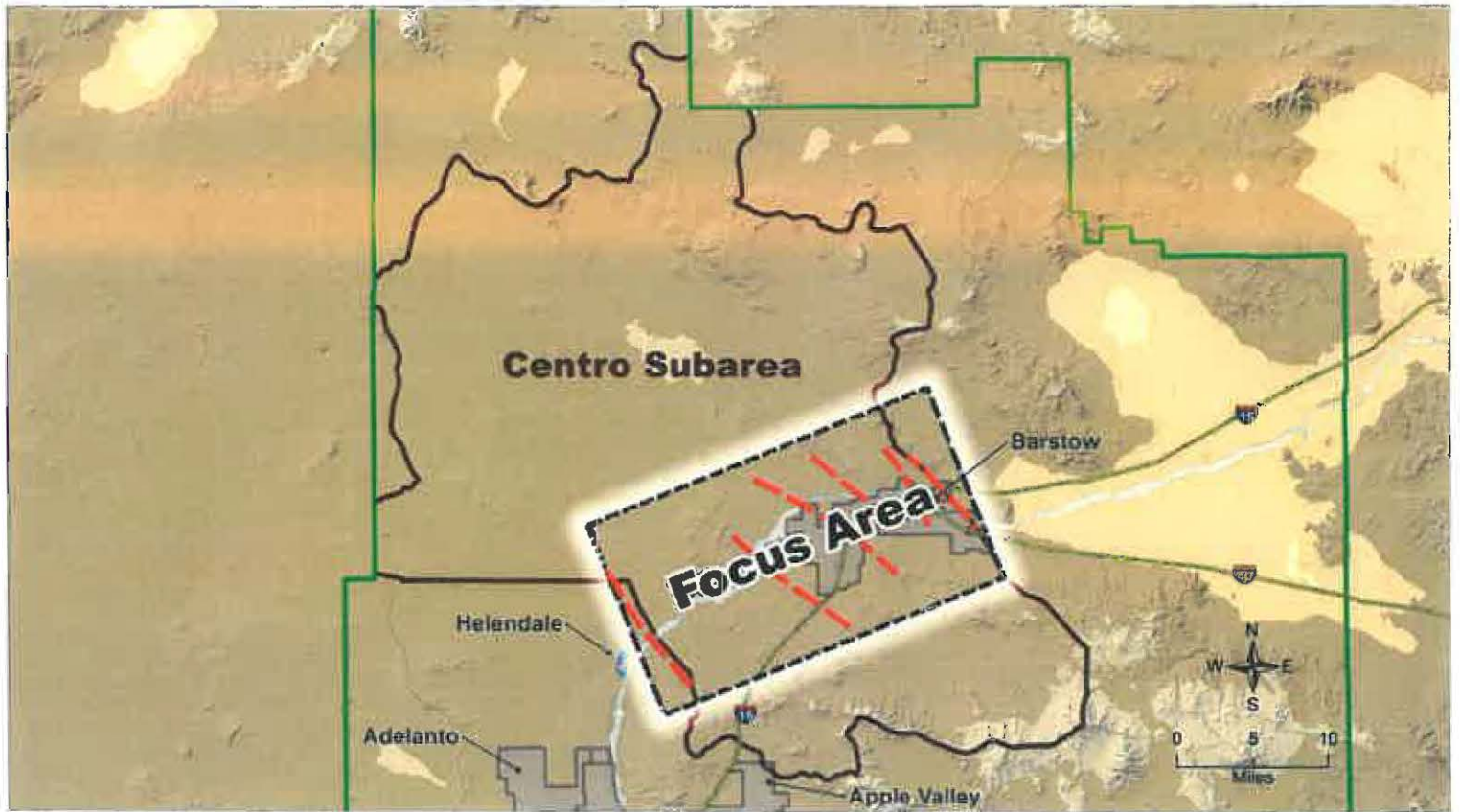


Development of longest droughts

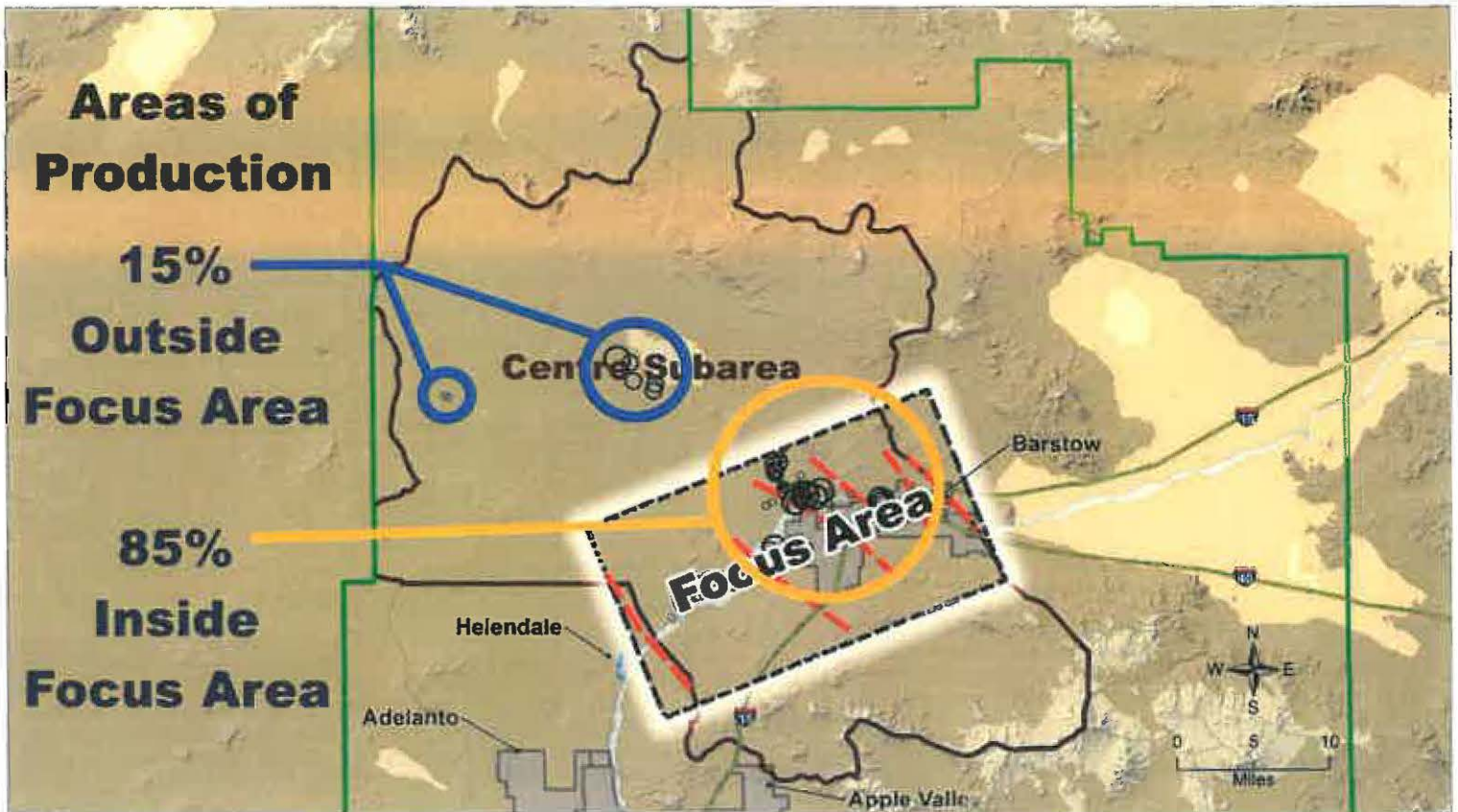




**CONCENTRATED  
PUMPING**

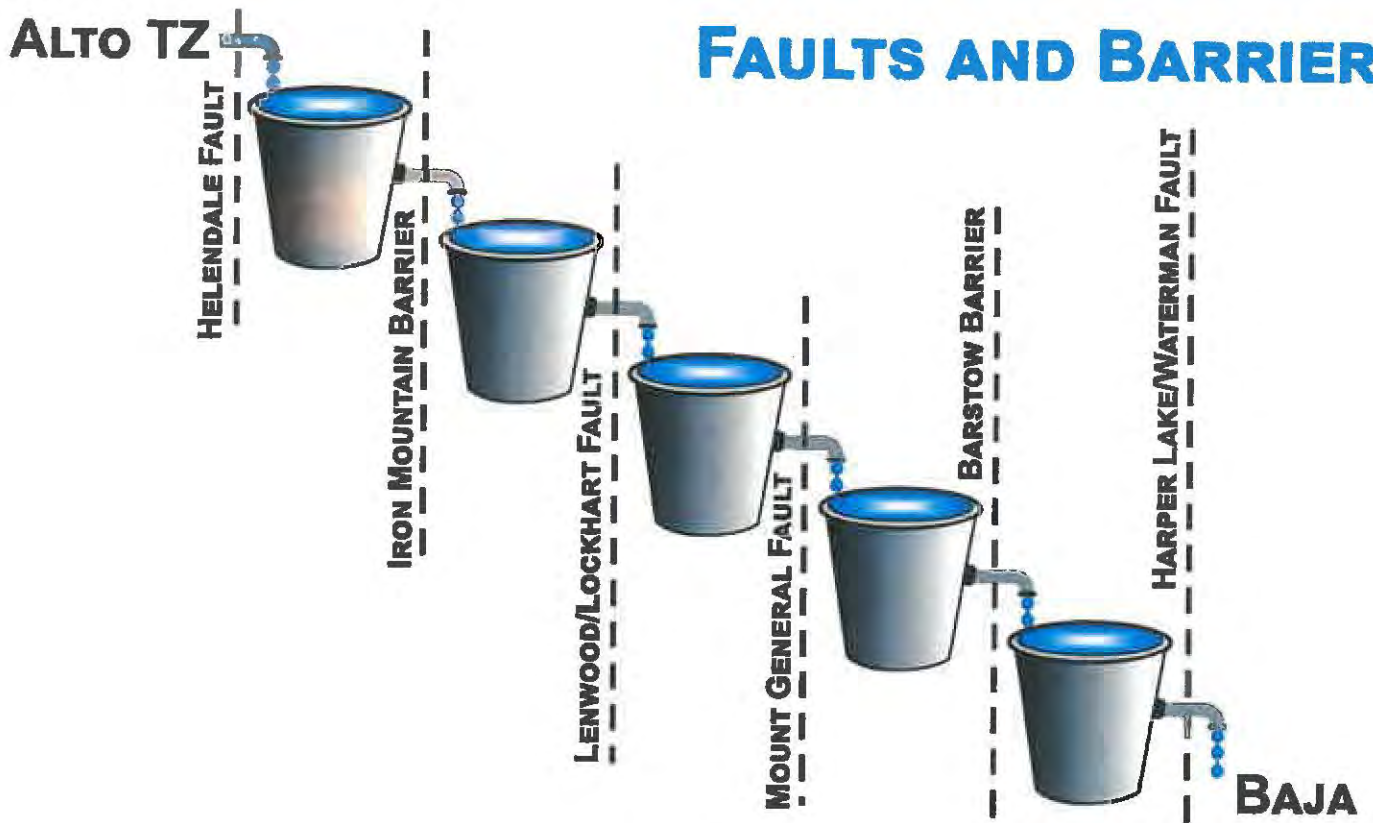






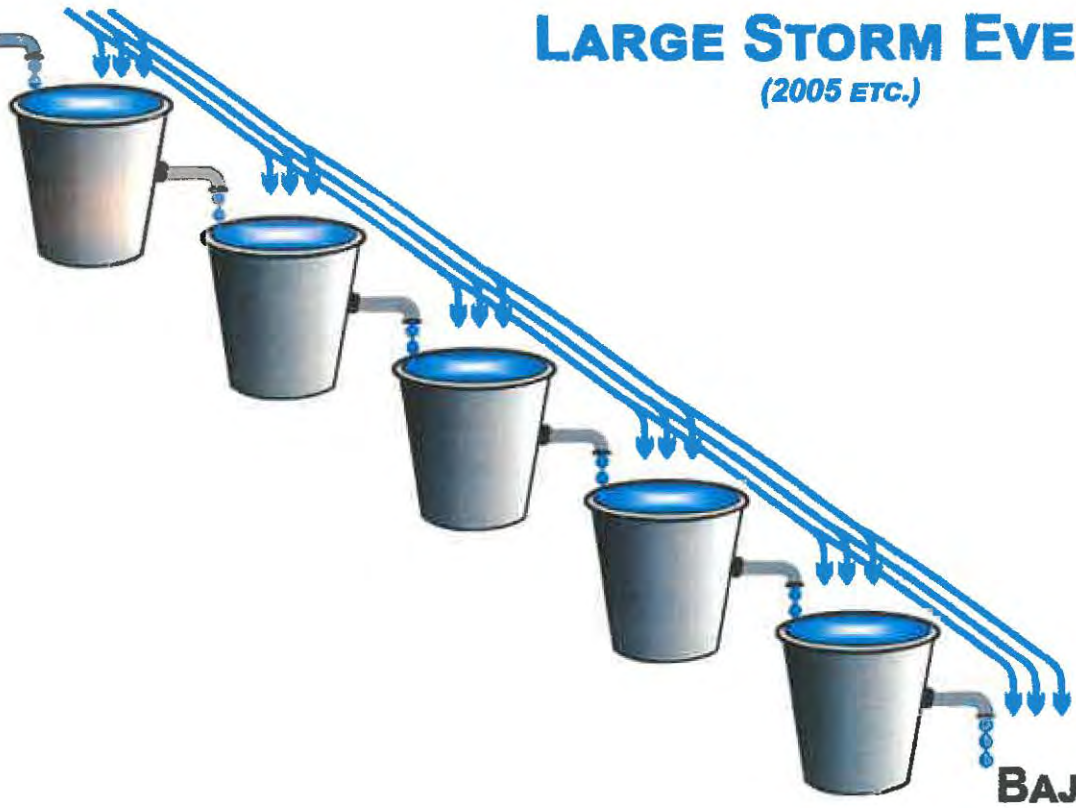


# FAULTS AND BARRIERS



**ALTO TZ**

# **LARGE STORM EVENT** *(2005 ETC.)*



**BAJA**

ALTO TZ

HELENDALE FAULT



IRON MOUNTAIN BARRIER



LENWOOD/LOCKHART FAULT



MOUNT GENERAL FAULT



BARSTOW BARRIER

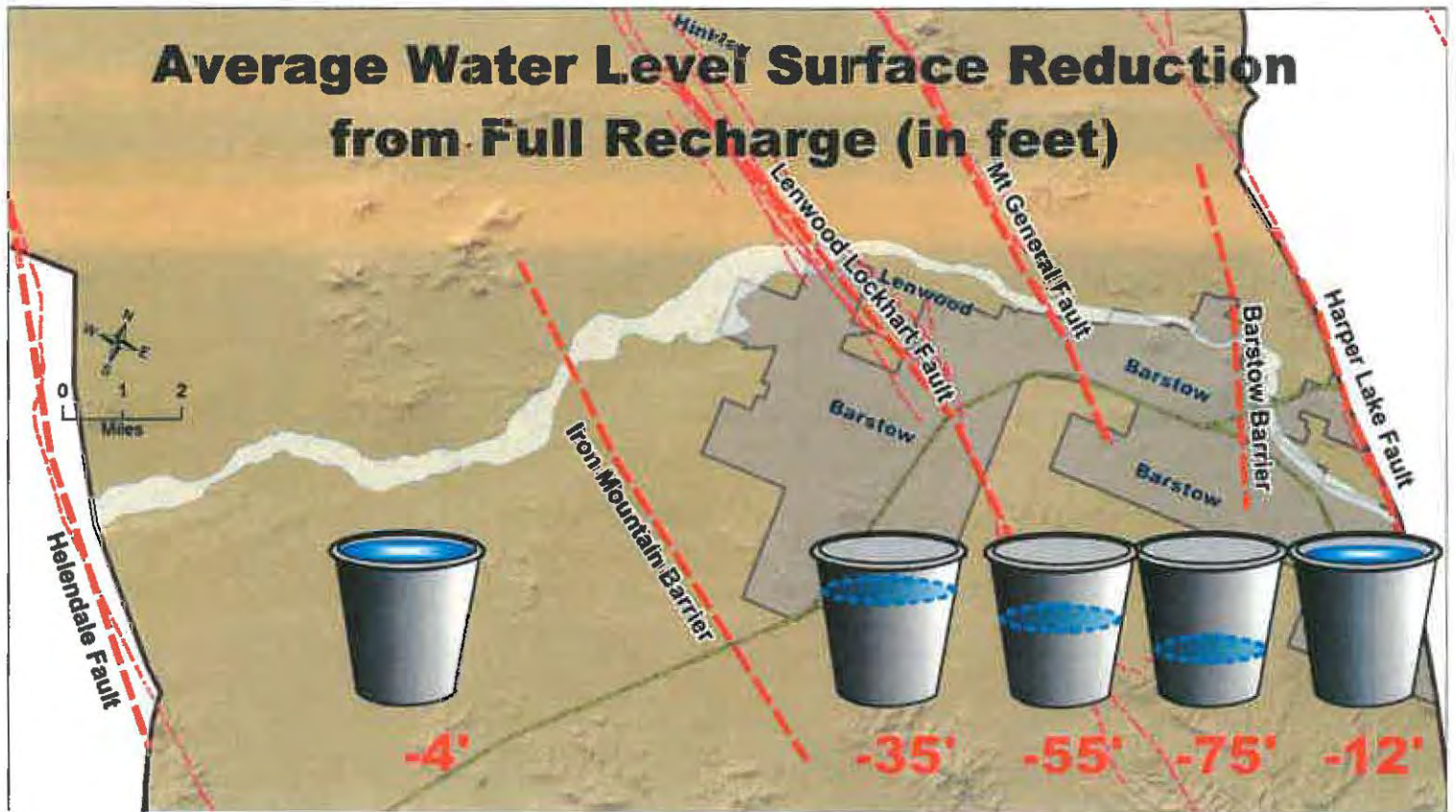


HARPER LAKE/WATERMAN FAULT

BAJA




# CURRENT CONDITIONS

# Average Water Level Surface Reduction from Full Recharge (in feet)

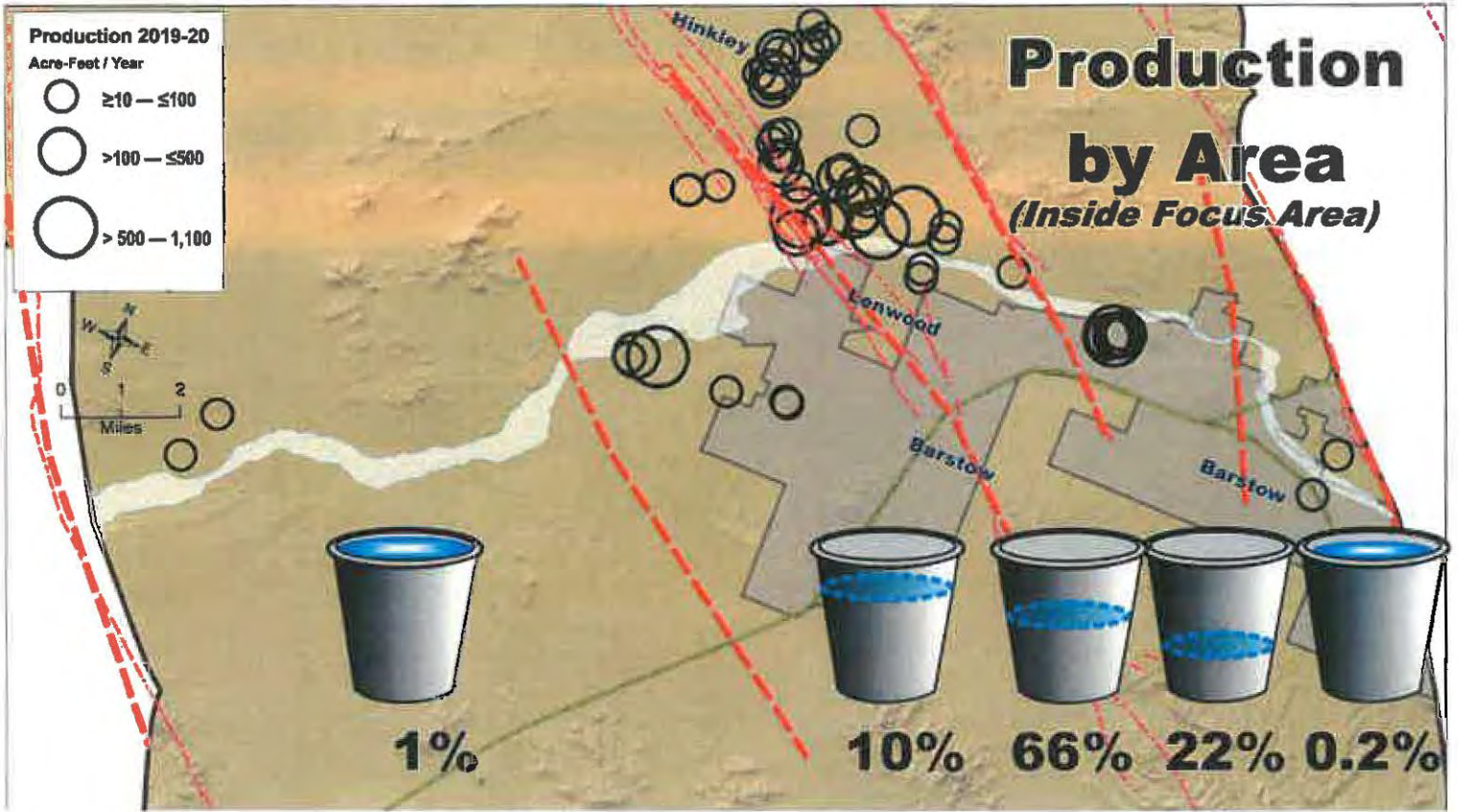


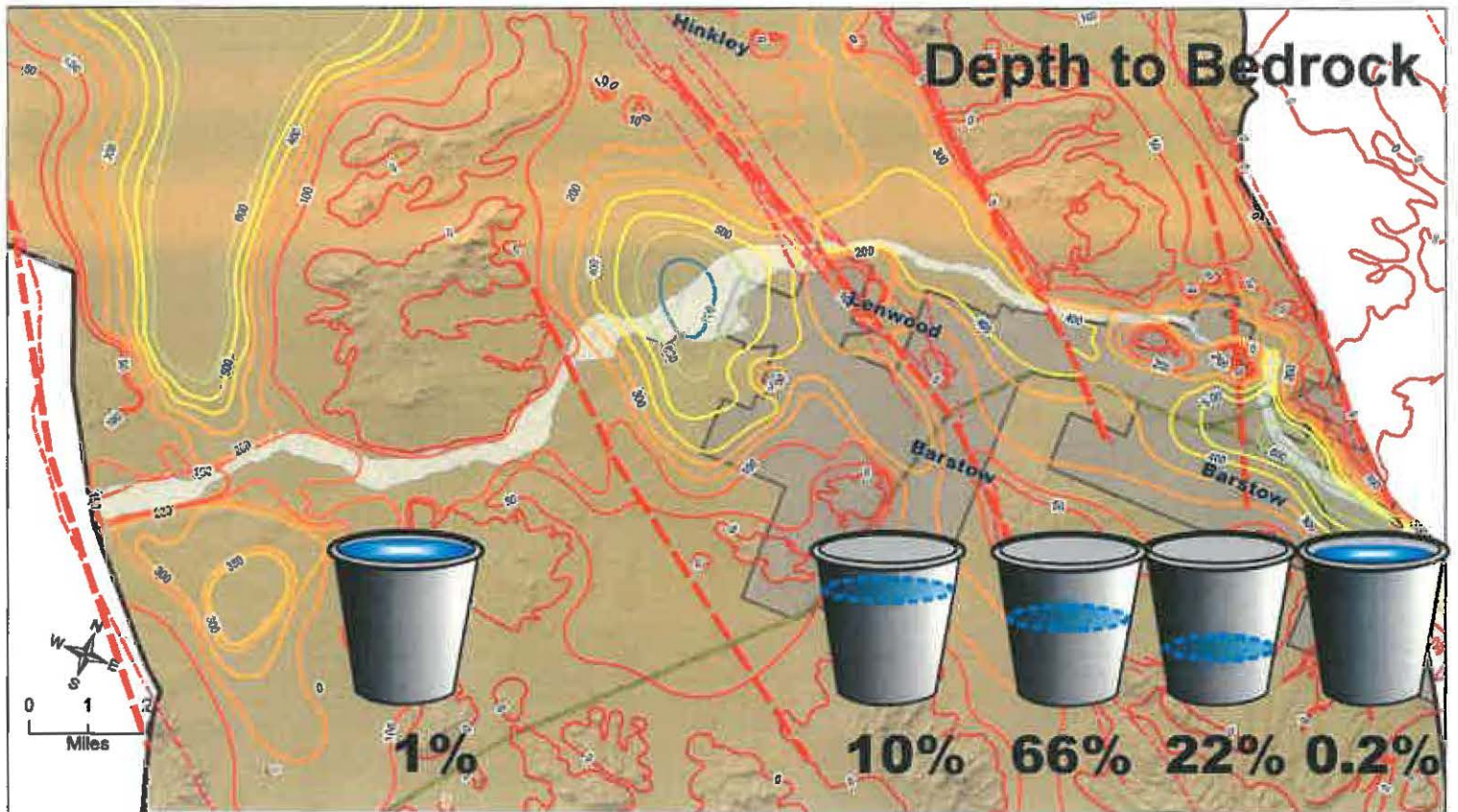


**Production 2019-20**  
Acre-Foot / Year

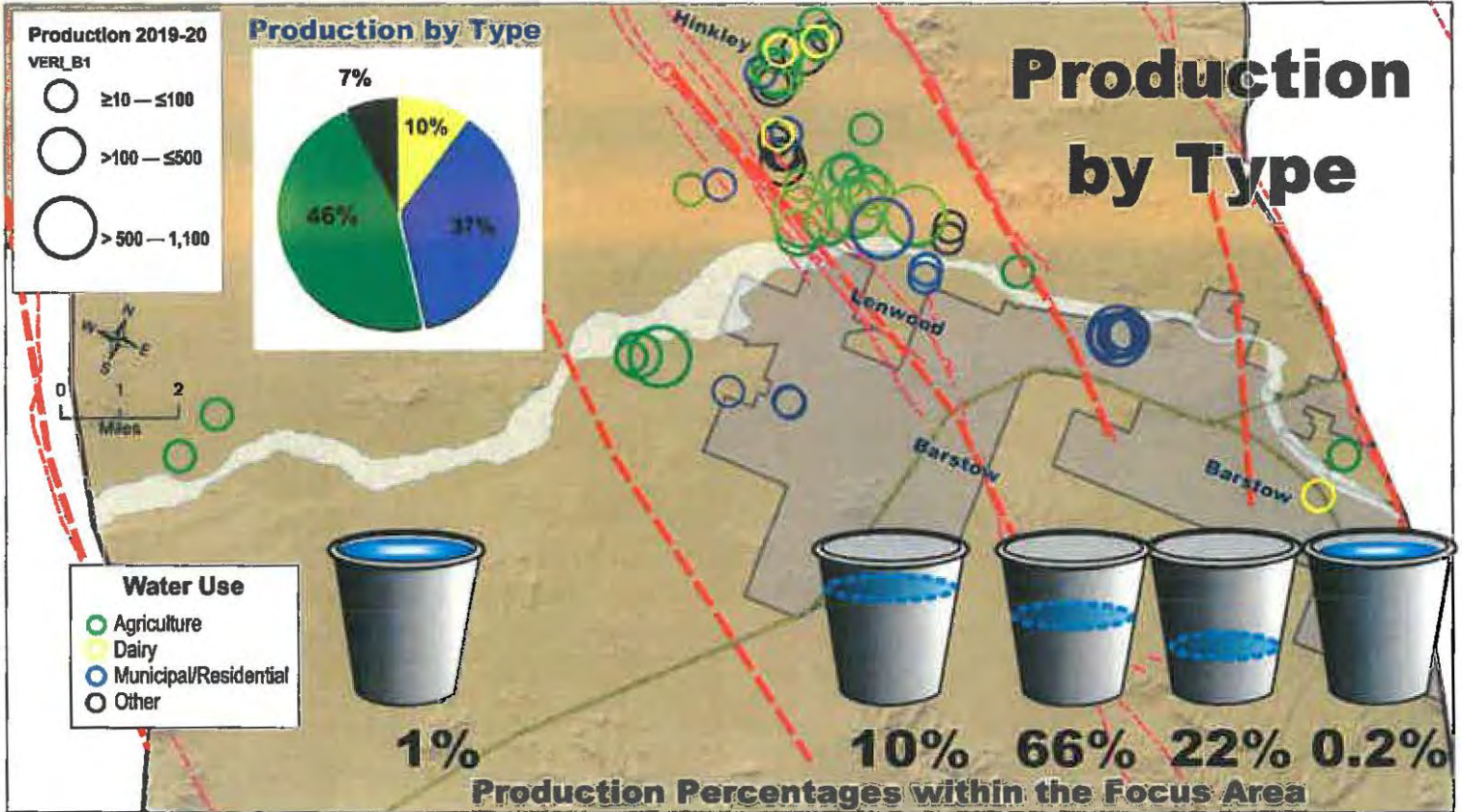
-   $\geq 10 - \leq 100$
-   $> 100 - \leq 500$
-   $> 500 - 1,100$

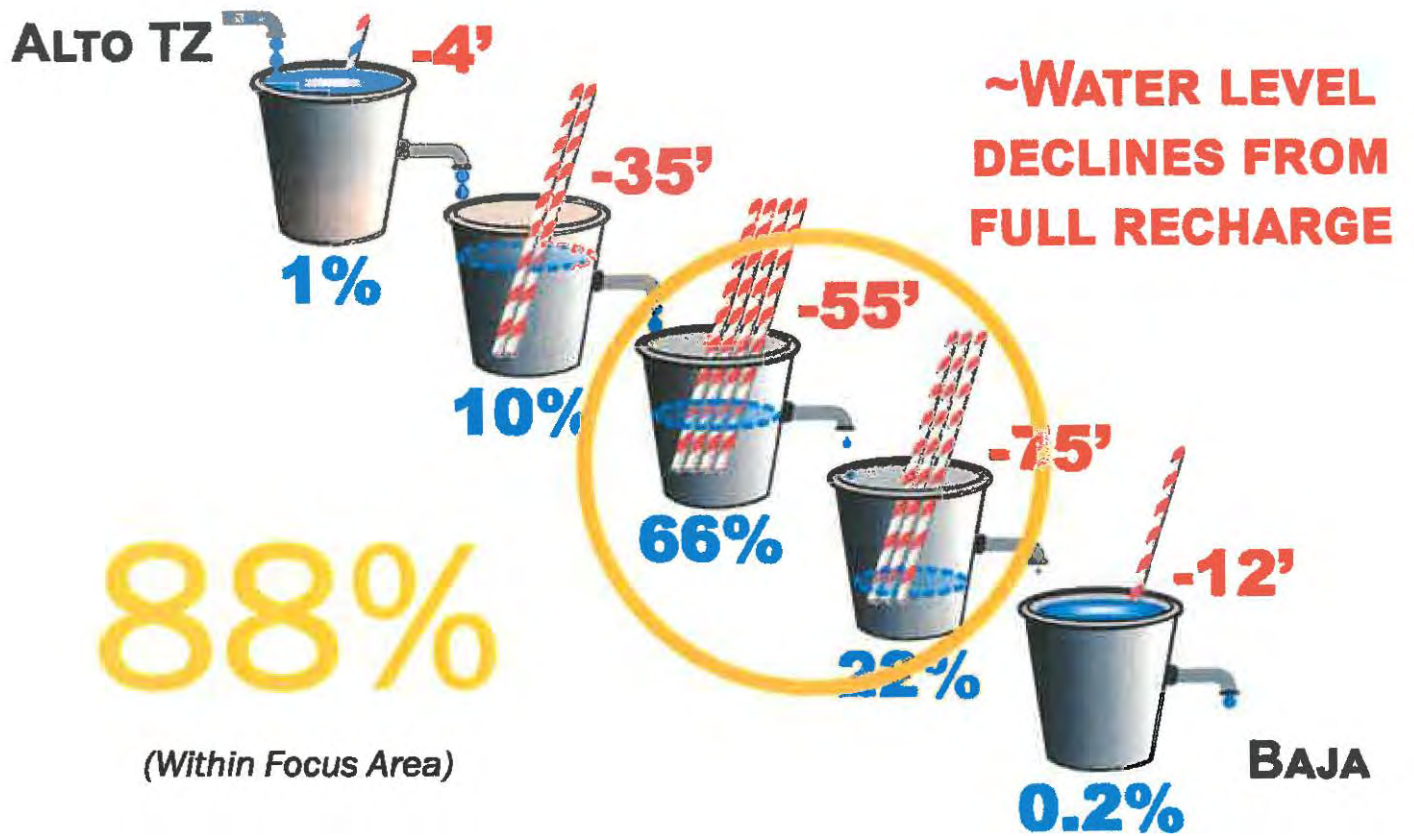
# Production by Area *(Inside Focus Area)*















SUMMARY

## Summary

- **Drought**
  - longest on record
- **Concentrated Pumping**
  - 88% of “focus area” pumping
  - This exacerbates local water level decline
- **Healthy “bookends” water levels**



# Questions?



Special thanks to Brian Hammer



## ***Mojave Water Agency***

**DATE:** April 28, 2022

**TO:** Board of Directors

**FROM:** Allison Febbo, General Manager

**BY:** Tony Winkel, Principal Hydrogeologist

**SUBJECT: CONSIDER IMPORT OF UP TO 5,000 ACRE-FEET OF STATE WATER PROJECT WATER FOR RECHARGE IN CENTRO SUBAREA AS AN EMERGENCY DROUGHT RESPONSE PILOT PROGRAM**

### **RECOMMENDATION**

Staff recommends the Board of Directors approve the import of up to 5,000 acre-feet of State Water Project water for recharge in Centro Subarea as an emergency drought response pilot program.

### **EXECUTIVE SUMMARY**

Extended drought within the Mojave Water Agency (MWA; Agency) service area has resulted in low groundwater levels in certain areas of high groundwater production. In particular, wells within the Centro Subarea near Lenwood have experienced record low groundwater levels as a result of the local drought. In recognition of the prolonged drought conditions, the MWA Board of Directors directed staff to develop a drought response plan to address the effects of prolonged drought on water levels within the MWA service area. As part of the development of the drought response plan, the Agency will evaluate the effect of delivery of targeted recharge, of imported SWP water on groundwater levels. Recharge of imported SWP water to the Lenwood area would provide an opportunity to take emergency measures in response to low water levels in the Centro Subarea, while also serving as a pilot program to evaluate basin response to imported water as part of a drought protection program. With consideration to available SWP water supplies and current conditions, staff recommends that the Board of Directors consider the import of up to 5,000 acre-feet (AF) of State Water Project (SWP) water for recharge in the Centro Subarea.

### **PREVIOUS CONSIDERATION BY COMMITTEE/BOARD OF DIRECTORS**

None.

### **BACKGROUND/ANALYSIS**

On April 1, 2022, in recognition of the prolonged drought conditions within our service area, the MWA Board of Directors directed staff to "study and develop a drought protection program after conducting workshops in the Mojave Water Agency service



Area and analyze the economic resources required to implement such a program.” As part of the effort to study and develop a drought protection program, staff intends to evaluate the effectiveness of using targeted recharge of imported SWP water to address water level concerns related prolonged drought conditions. The evaluation will include analysis and modeling of our groundwater basins and their response to targeted recharge.

Currently, the Lenwood area of the Centro Subarea is experiencing the lowest groundwater level on record. Extended drought conditions and concentrated pumping of groundwater resources in the area have contributed to low water levels. Implementing a pilot program using targeted recharge in the Centro Subarea combined with monitoring, will provide important information for the development of the drought response program, while also providing some level of emergency drought relief for the area.

Previous artificial recharge events from 1,000 to 2,000 AFY at the MWA Lenwood Recharge Facility have demonstrated a positive impact on groundwater levels. MWA staff anticipates that importing and recharging up to 5,000 AF of SWP water at the Lenwood Facility will have a positive impact on local groundwater levels of between 10 and 20 feet. Due to the current dry conditions at Barstow, which have persisted for over 11 years (based on significant surface water flow events measured at the Barstow stream gage), it is likely that the anticipated 10 to 20 foot impact on groundwater levels will trend toward the lower end of the estimate. Monitoring as part of this pilot program will help inform a predictive model, which would be required for a more precise projection of basin response.

Operational constraints of the Mojave River Pipeline and the Lenwood Recharge Facility limits recharge capacity to a maximum of 10 CFS. At this rate, a delivery of 5,000 AF of recharge water will likely take more than 8 months to complete.

After consideration of reliability reserves, MWA currently has about 11.7 TAF of SWP water supply available this year. Approximately 2.7 TAF will be imported for direct delivery demands within the service. If up to 5,000 AF is imported for recharge into the Lenwood area under this proposed action, approximately 4 TAF of SWP water supply will remain available this year.

#### **FISCAL IMPACT**

The estimated fiscal impact is \$2,040,000, using a unit DWR variable rate of \$408 per AF delivered out of Reach 22B from the April water deliveries charge invoice.

#### **ATTACHMENTS**

None.

**ACTION**

Motion to approve the import of up to 5,000 acre-feet of State Water Project water for recharge in Centro Subarea as an emergency drought response pilot program.

**Board Action:** Staff's recommendation approved

<b>Conditions:</b> <u>None</u>
<b>Date:</b> <u>April 28, 2022</u>

**General Manager:** 

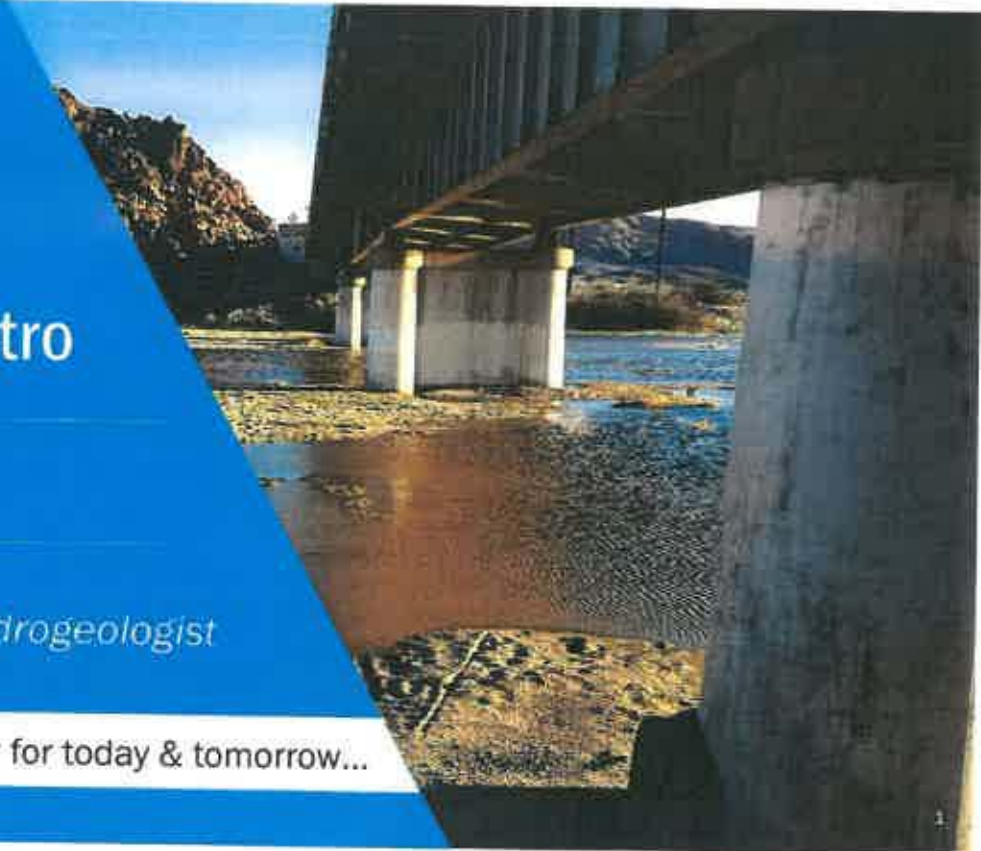


# Recharge to Centro

Board of Directors  
April 28, 2022

*Tony Winkel, Principal Hydrogeologist*

Together, we're securing water for today & tomorrow...

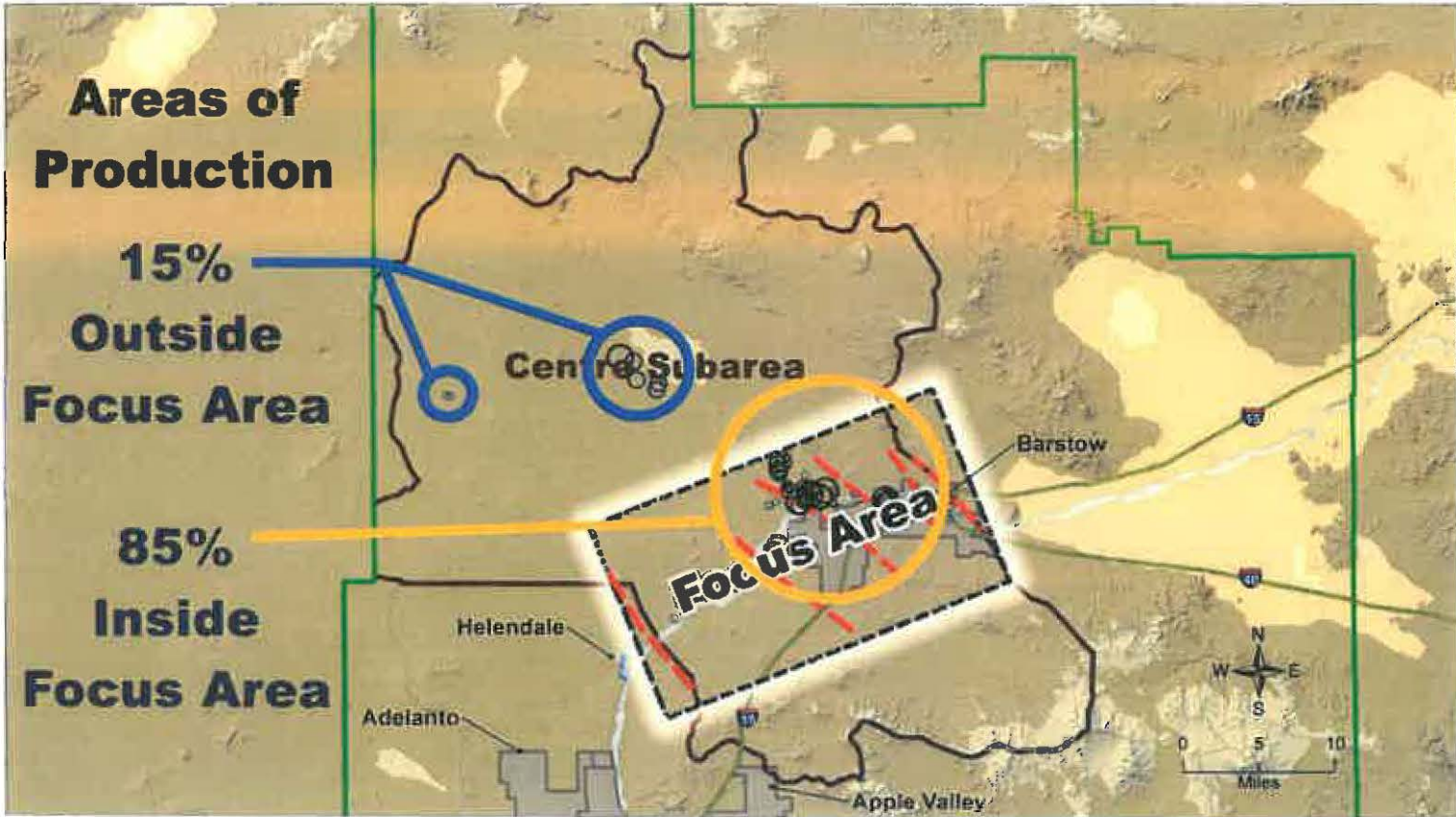


## Overview

- **Very Brief Review**
  - Centro Groundwater Conditions
  - Impacts of 5,000 AF of Recharge
- **SWP Water Conditions**
  - Allocation and San Luis
- **Drought Protection and Pilot Program**
- **Staff Recommendation**



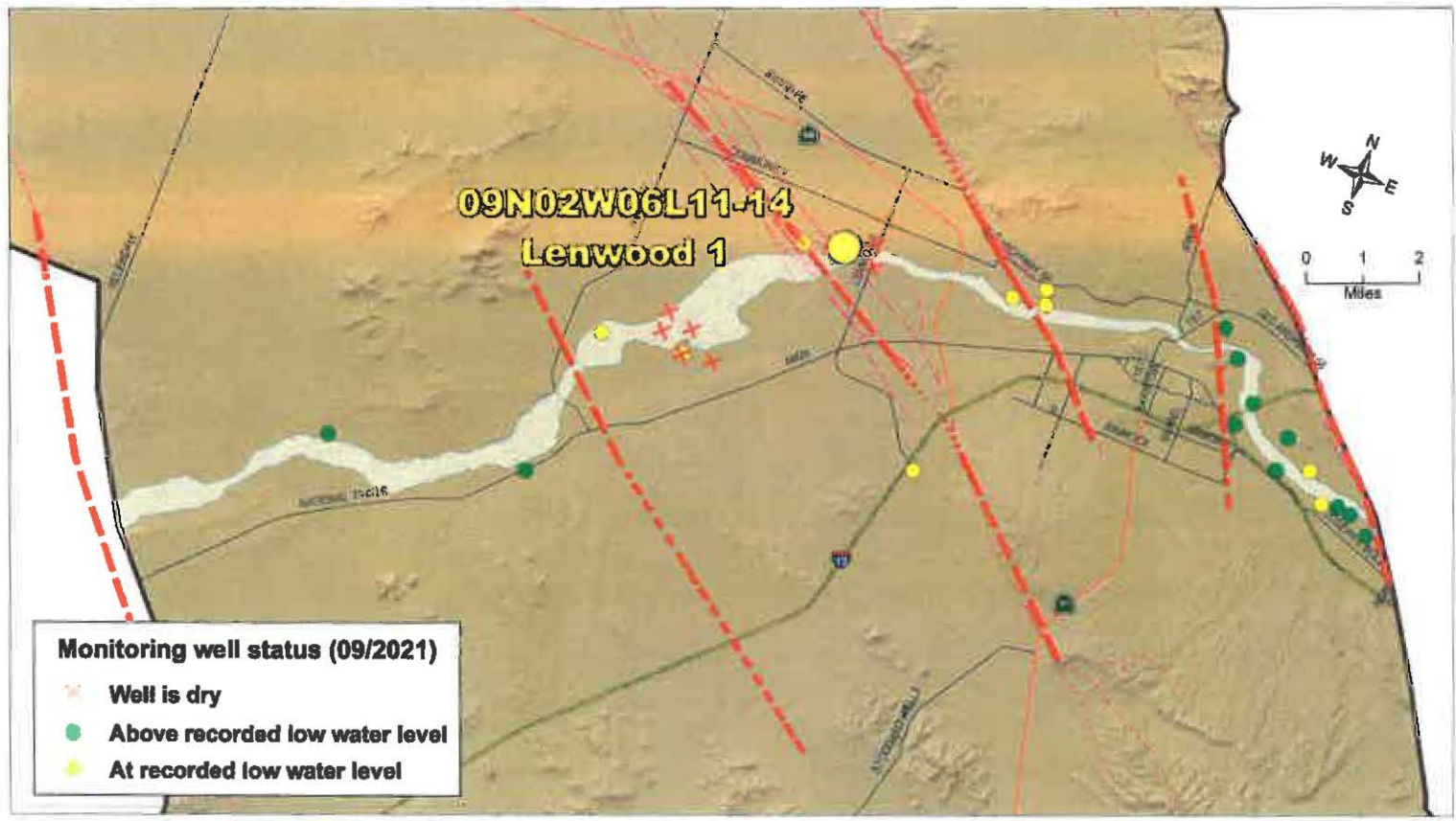




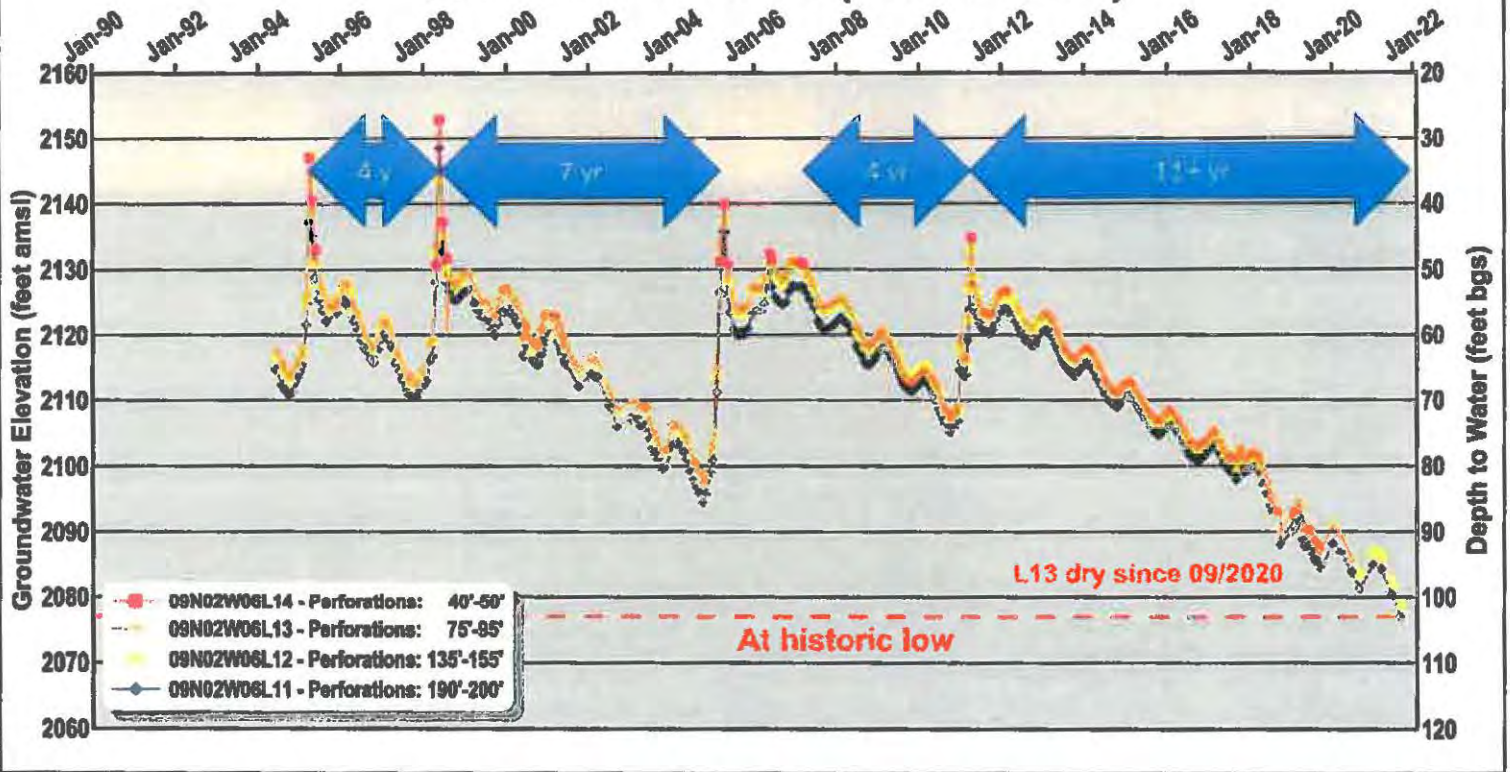
**09N02W06L11-14**  
**Lenwood 1**



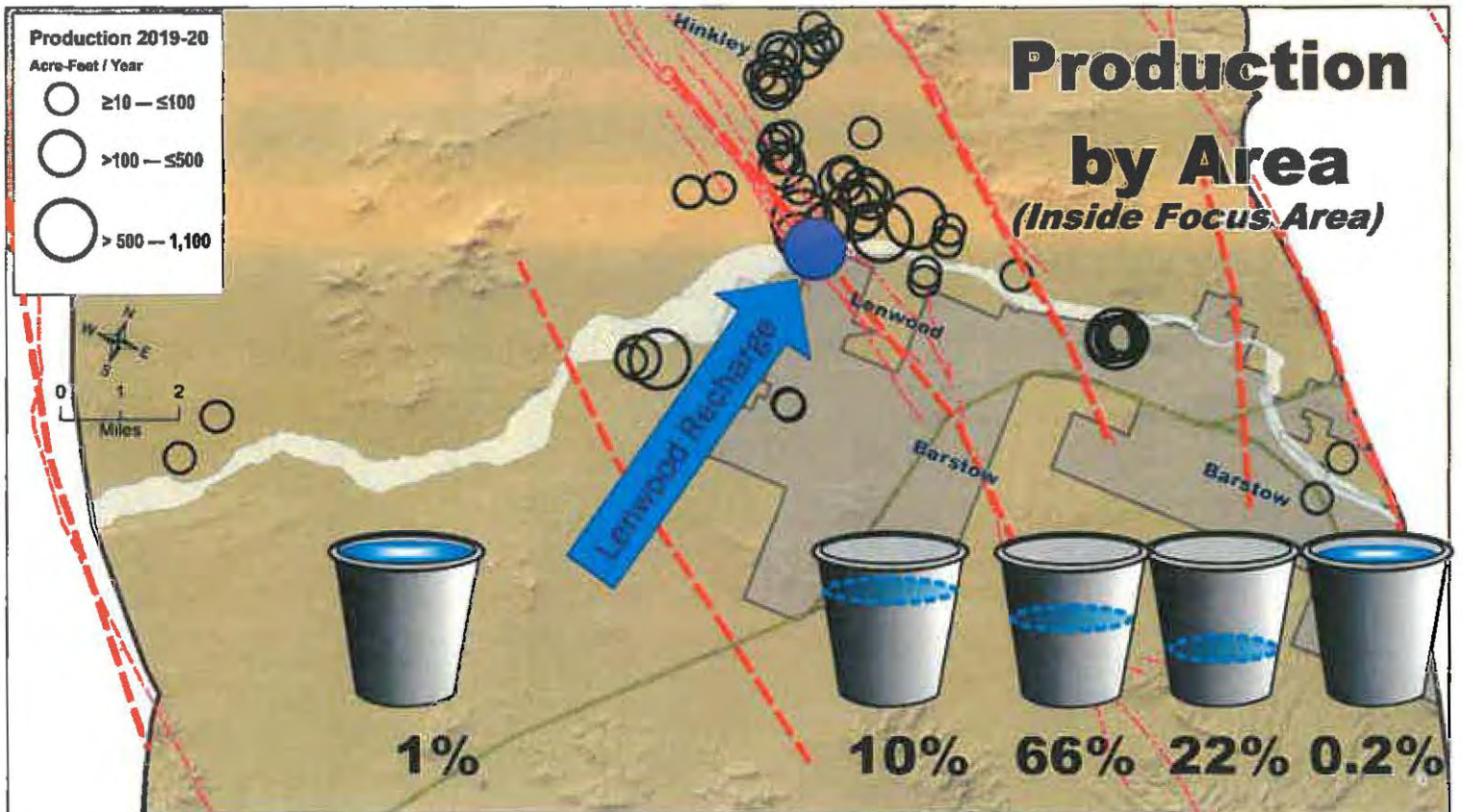
- Monitoring well status (09/2021)**
- ✕ Well is dry
  - Above recorded low water level
  - At recorded low water level



# 09N02W06L11-14 (Lenwood 1)









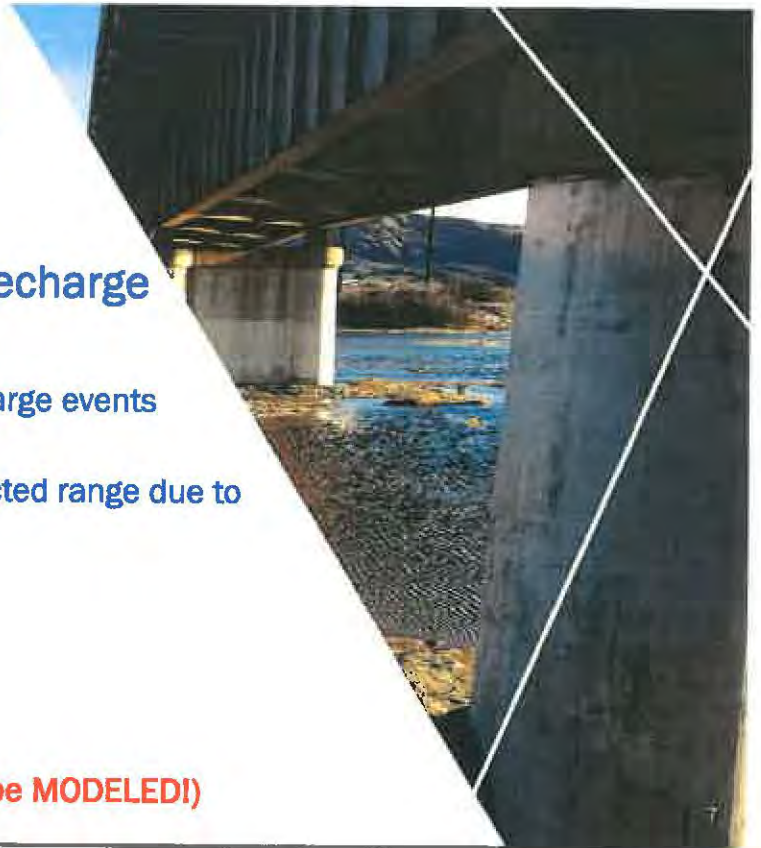
## Lenwood Recharge

### Recharge 5,000 AF at Lenwood

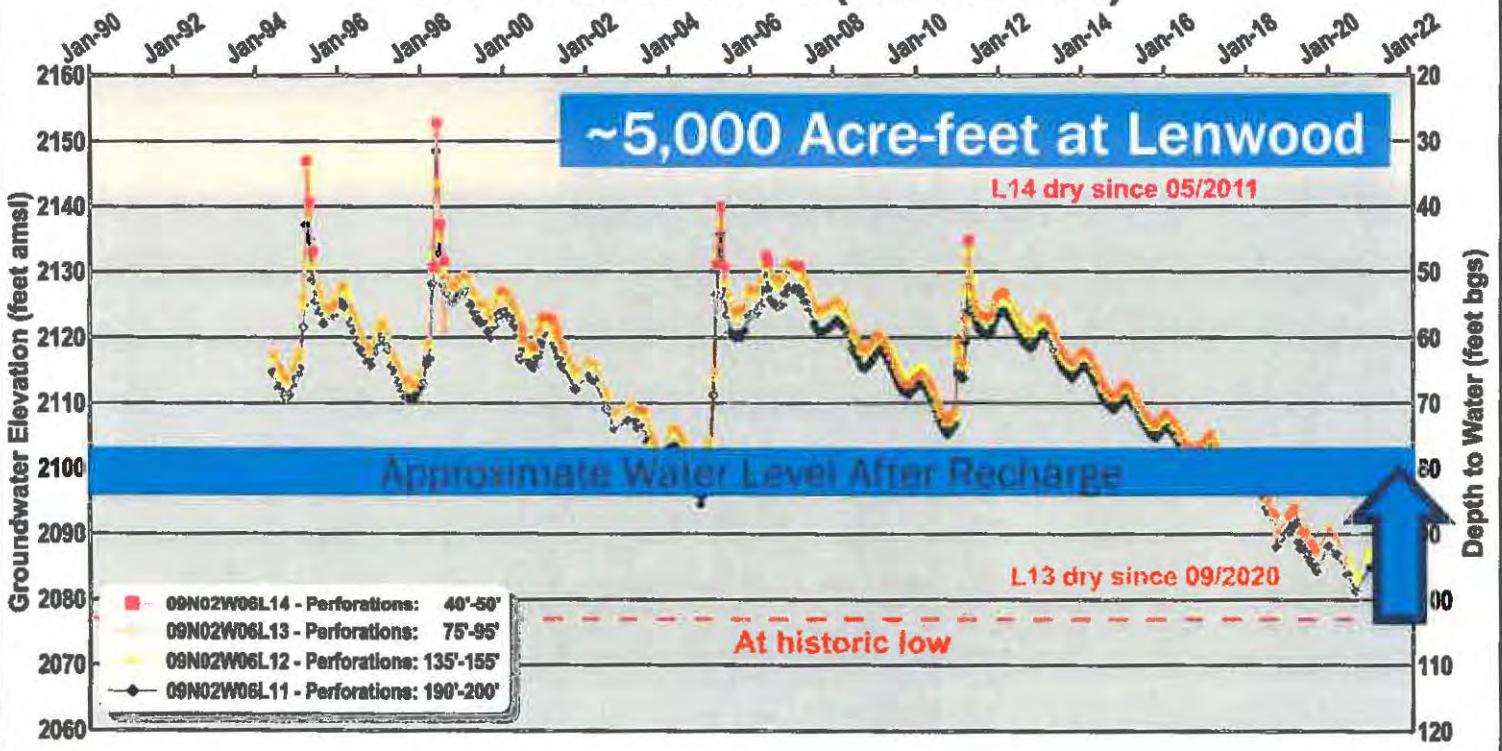
#### Pilot Program to Evaluate Centro Recharge

- ~10-20 ft. increase in water levels
  - Based on 3 previous non-storm-year recharge events ('06, '07, '17)
  - Likely lower rather than the higher of the projected range due to 11+ years of preceding drought
- Operational Considerations
  - ~10 CFS “drum strainer” capacity
  - 8+ month delivery interval

**(DISCLAIMER: This projection should really be MODELED!)**



# 09N02W06L11-14 (Lenwood 1)



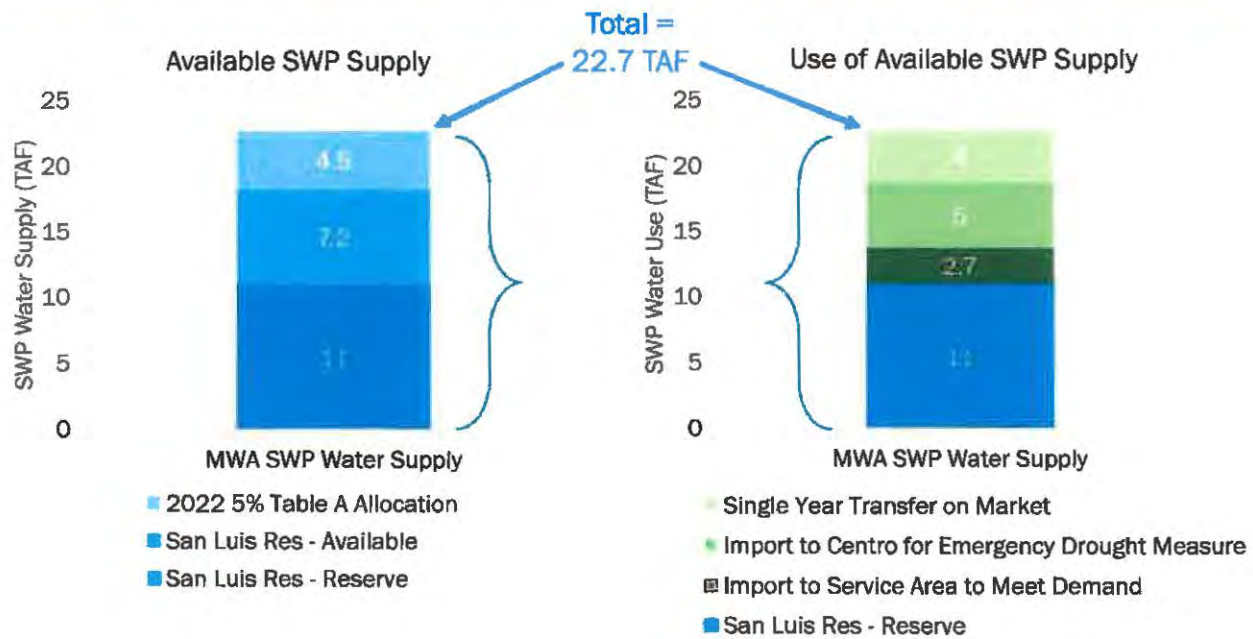
## SWP Water Conditions

- 2022 Table A Allocation
  - @ 5%: 4,500 AF
- Local Demands Met By SWP Supply:
  - 2,700 AF
  - Remaining SWP Supply = 9 AF
- San Luis Reservoir (SLR) Balance
  - This Year: 18,200 AF
  - MWA policy reliability storage SLR: 11,000 AF



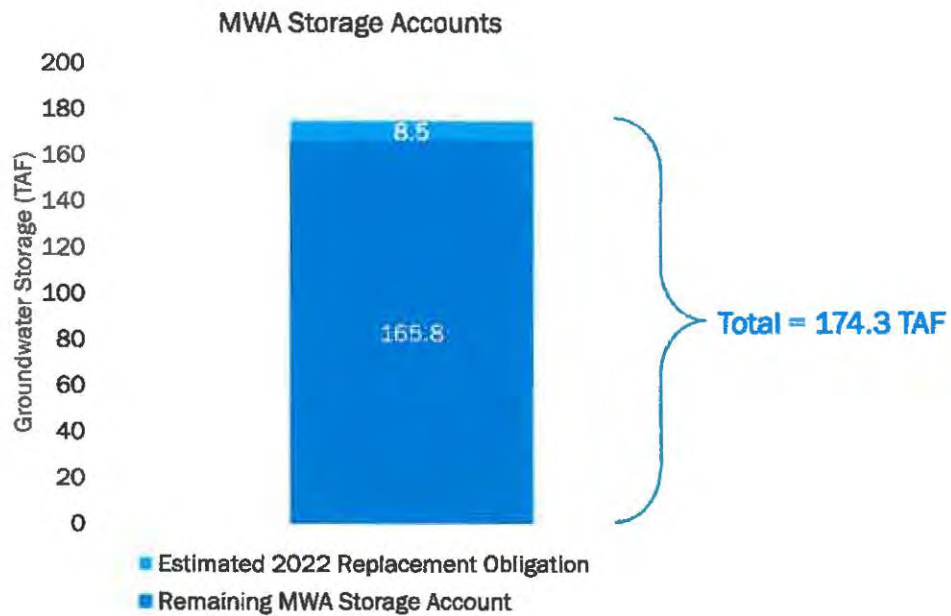


# MWA SWP Water Supply and Proposed Use



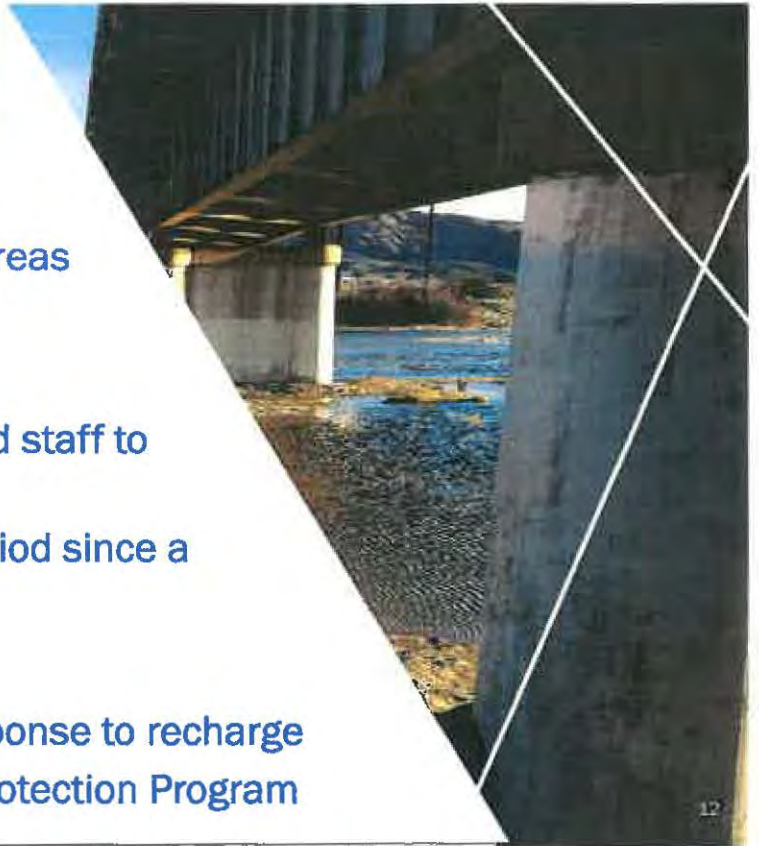


# Pumping from Pre-stored Water Storage Accounts



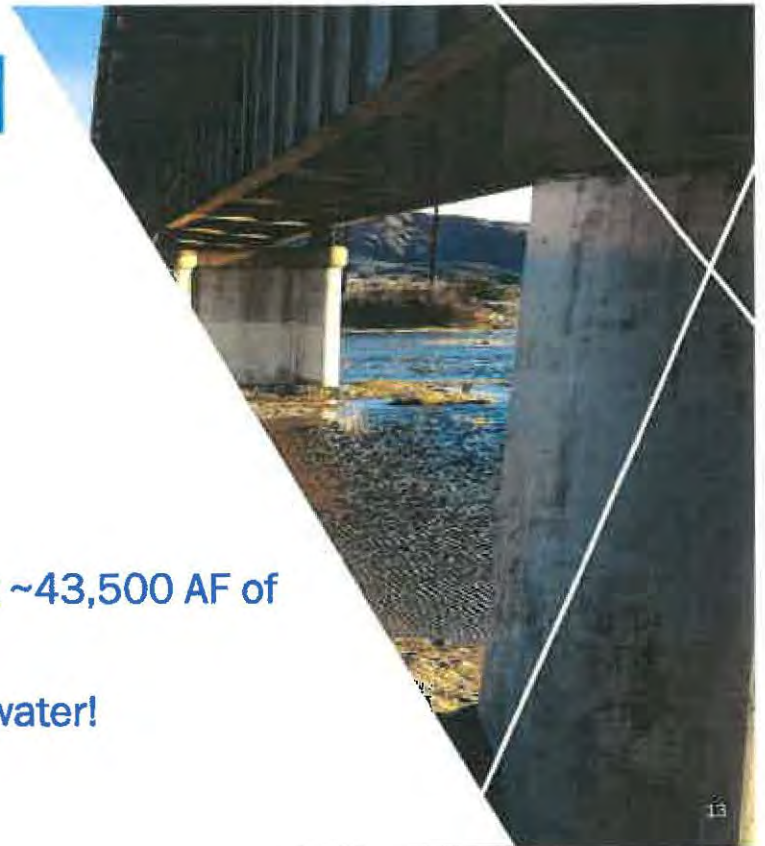
## Drought Response

- Immediate Need
  - Record low water levels in some areas of Centro Subarea
- Drought Protection Program
  - April 1, 2022: MWA Board directed staff to develop program
  - Recognizing extended drought period since a significant recharge event
- Pilot Program
  - Opportunity to evaluate basin response to recharge
  - Inform development of Drought Protection Program



## Financials of 5,000 AF

- Import Costs
  - **\$2,040,000** (~\$408/AF)
- Market Value
  - **\$10,000,000** (~\$2,000/AF)
- “Buy Low / Sell High”
  - \$10M in a wet year could import ~43,500 AF of MWA's Table A (~\$230/AF)
  - Almost NINE (9) times as much water!



## Staff Recommendation

Staff recommends the Board of Directors approve the import of up to 5,000 acre-feet of State Water Project water for recharge in Centro Subarea as an Emergency Drought Response Pilot Program.



Questions?





Public Comment #9

April 28,2022

Otis Calef  
PO Box 1120  
Barstow, CA 92312  
[otiscalef@gmail.com](mailto:otiscalef@gmail.com)  
(805) 708-5009

Mojave Water Agency Board of Directors

Item #9

Directors:

I am strongly in favor of the proposal before you to store water underground in the Lenwood Basin. I live along the north bank of the Mojave River, just off of Old Hwy. 58, at 27589 Waterman St.

The many large, old trees that have recently died in my neighborhood is strong evidence that the basin is severely depleted and provides an excellent location for storage.

Respectfully yours,

OWC



Public Comment  
#9

**La Trici Jones**

---

**From:** judyzimm4@gmail.com  
**Sent:** Thursday, April 28, 2022 8:45 AM  
**To:** La Trici Jones  
**Subject:** --EXTERNAL-- ITEM #9

[EXTERNAL EMAIL]

Mojave Water Agency Board of Directors

Item #9 on Agenda today (April 28, 2022)

I am in favor of the proposal #5 to store water underground in the Lenwood Basin. A yes vote will help us continue a quality of life, we have had for the past 40 years. My address is 26466 Community Blvd. Barstow, Ca 92311.

Thank you,  
Mark and Judy Zimmerman

Dalila Lozano

#9

**From:** La Trici Jones  
**Sent:** Thursday, April 28, 2022 9:58 AM  
**To:** Dalila Lozano  
**Subject:** FW: --EXTERNAL-- Item-9 Recharge to Centro

Please print this page and bring to me. Thank you

**From:** Dahlstrom, Perry <Pldahlstrom@gswater.com>  
**Sent:** Thursday, April 28, 2022 9:34 AM  
**To:** La Trici Jones <ljones@mojavewater.org>  
**Subject:** --EXTERNAL-- Item-9 Recharge to Centro

[EXTERNAL EMAIL]  
Hello La Trici,

Can you please read the follow statement – into the record when comments are open on item 9.

*5 thousand more feet*

"Golden State Water Company supports MWA's action of delivering 5TAF to the Lenwood recharge basin. We are very hopeful that it will provide a beneficial impact to all in the Centro area."

Thank you,

Perry Dahlstrom  
General Manager

Mountain Desert District  
13608 Hitt Road  
Apple Valley, CA 92308

Office: (760) 515-8320  
Mobile: (760) 455-3975



This message and any attached documents contain certain information from American States Water Company and its subsidiary companies that may be confidential and/or privileged. If you are not the intended recipient, you may not read, copy, distribute or use this information. If you have received this transmission in error, please notify the sender immediately by reply e-mail and then delete this message.



# MOJAVE WATER AGENCY

## MEETING OF THE BOARD OF DIRECTORS ATTENDANCE ROSTER

**DATE:** April 28, 2022  
**TIME:** 9:30 a.m.  
**MEETING PLACE:** Mojave Water Agency Board Room

---

### DIRECTORS:

Division #1   
Kimberly Cox

Division #4   
Michael L. Page

Division #2 \_\_\_\_\_  
Jim Ventura

Division #5 Online  
Rick Roelle

Division #3 Online  
Ken Anderson


Division #6   
Jeanette Hayhurst

Division #7 Online  
Michael Limbaugh

### MWA STAFF:

- |                         |           |
|-------------------------|-----------|
| 1. <u>Allison Jubbo</u> | 7. _____  |
| 2. <u>Kathy Carter</u>  | 8. _____  |
| 3. <u>Tony Winkel</u>   | 9. _____  |
| 4. _____                | 10. _____ |
| 5. _____                | 11. _____ |
| 6. _____                | 12. _____ |

### CONSULTANTS:

- |   |          |
|---|----------|
| 1. <u></u> | 3. _____ |
| 2. _____  | 4. _____ |



**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 October 9, 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:

**WATERMASTER'S AMENDED OPPOSITION TO GOLDEN STATE WATER COMPANY'S MOTION TO ENFORCE JUDGMENT; DECLARATION OF ROBERT C. WAGNER**

  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 October 9, 2024 at Apple Valley, California.

  
\_\_\_\_\_  
Jeffrey D. Ruesch

Mojave Basin Area Watermaster Service List as of October 09, 2024

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

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

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(chunsooahn@naver.com)  
Ahn Revocable Living Trust (via email)  
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Apple Valley, CA 92307-0001

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(chunsooahn@naver.com)  
Ahn, Chun Soo and Wha Ja (via email)  
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Attn: Ana Chavez  
American States Water Company  
160 Via Verde, Ste. 100  
San Dimas, CA 91773-5121

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

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

Attn: Sheré R. Bailey  
(LegalPeopleService@gmail.com)  
Bailey 2007 Living Revocable Trust, Sheré R.  
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Adelanto, CA 92301-9489

Attn: Simon Ahn (ssahn58@gmail.com)  
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Murrieta, CA 92563-6710

Ake, Charles J. and Marjorie M.  
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Barstow, CA 92311-6757

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Apple Valley Unified School District  
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Baron, Susan and Palmer, Curtis  
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Aztec, NM 87410-9322

Attn: Jessie Florez  
Adelanto, City Of  
11600 Air Expressway  
Adelanto, CA 92301-1914

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

Attn: Chun Soo Ahn  
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davidahn0511@gmail.com)  
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Attn: Paul Tsai (paul@ezzlif.com)  
America United Development, LLC (via  
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19625 Shelyn Drive  
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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: Emely and Joe Saltmeris  
Apple Valley View Mutual Water Company  
P. O. Box 3680  
Apple Valley, CA 92307-0072

Avila, Angel and Evalia  
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Compton, CA 90220-3946

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Barstow, City of (via email)  
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Barstow, CA 92311

Mojave Basin Area Watermaster Service List as of October 09, 2024

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156 W 100 N  
Jerome, ID 83338-5256

Attn: Barbara Davison  
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Apple Valley, CA 92307-4912

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Bastianon Revocable Trust  
9484 Iroquois Rd.  
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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  
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Attn: Chuck Bell (Chuckb193@outlook.com;  
Chuckb193@outlook.com)  
Bell, Charles H. Trust dated March 7, 2014  
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Best, Byron L.  
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Lake Forest, CA 92630-2011

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Jason.Murray@bnsf.com;  
Blaine.Bilderback@bnsf.com)  
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602 S. Ferguson Avenue, Suite 2  
Bozeman, MT 59718-

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BNSF Railway Company (via email)  
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Box, Geary S. and Laura  
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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

Attn: Ian Bryant (irim@aol.com)  
Bryant Family Trust dated May 9, 2007 (via  
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(bubierbear@msn.com)  
Bubier, Diane Gail (via email)  
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2309 Highland Heights Lane  
Carrollton, TX 75007-2033

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Mojave Basin Area Watermaster Service List as of October 09, 2024

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Center Water Company  
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Lucerne Valley, CA 92356-0616

Attn: Nancy Ryman  
Chamisal Mutual Water Company  
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Contratto, Ersula  
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Attn: Jay Hooper (jayho123@gmail.com)  
Crown Cambria, LLC (via email)  
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El Monte, CA 91731-1110

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

(dacostadean@gmail.com)  
DaCosta, Dean Edward (via email)  
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Daggett Community Services District (via  
email)  
P. O. Box 308  
Daggett, CA 92327-0308

Attn: Steve and Dana Rivett  
Daggett Ranch, LLC  
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Daggett, CA 92327-0112

Attn: James Kelly  
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Mojave Basin Area Watermaster Service List as of October 09, 2024

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Attn: Denise Courtney  
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Attn: Debby Wyatt  
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Attn: Judith Dolch-Partridge, Trustee  
Dolch Living Trust Robert and Judith  
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Donaldson, Jerry and Beverly  
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Delta, CO 81416-8501

Attn: Virginia Shaw  
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Attn: David Dorrance  
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Attn: Daisy Cruz  
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(cfrates@renewablegroup.com)  
Frates, D. Cole (via email)  
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Attn: Deborah A. Friend  
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waltbrock@ironwood.org)  
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Gabrych, Eugene  
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Mojave Basin Area Watermaster Service List as of October 09, 2024

Gabrych, Eugene  
2206 Old Highway 395  
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Gaeta, Trinidad  
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223 Rabbit Trail  
Lake Jackson, TX 77566-3728

Attn: Sang Hwal Kim  
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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)  
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Daggett, CA 92327-0337

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

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Nereida.Gonzalez@gswater.com)  
Golden State Water Company (via email)  
160 Via Verde, Ste. 100  
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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  
(resrv4you@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

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Mojave Basin Area Watermaster Service List as of October 09, 2024

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Mojave Basin Area Watermaster Service List as of October 09, 2024

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Mojave Basin Area Watermaster Service List as of October 09, 2024

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Attn: Eugene R. & Vickie R. Bird  
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## Mojave Basin Area Watermaster Service List as of October 09, 2024

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Mojave Basin Area Watermaster Service List as of October 09, 2024

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Mojave Basin Area Watermaster Service List as of October 09, 2024

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Mojave Basin Area Watermaster Service List as of October 09, 2024

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**PROOF OF SERVICE**

*City of Barstow, et al. v. City of Adelanto, et al.*  
*Riverside Superior Court Case No. CIV208568*  
*Mojave Basin Water Cases JCCP5265*

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 1839 Commercenter West, P.O. Box 13130, San Bernardino, California 92423-3130.


On October 11, 2024, I served the following entitled document: **NOTICE OF ERRATA TO WATERMASTER'S AMENDED OPPOSITION TO GOLDEN STATE WATER COMPANY'S MOTION TO ENFORCE JUDGMENT; DECLARATION OF ROBERT C. WAGNER** on the interested parties in this action in the manner described below, addressed as follows:

**SEE SERVICE LIST ATTACHED**

**XX** (BY ELECTRONIC MAIL): To the parties e-mail addresses listed hereto. Said document(s) were delivered electronically and the transmission was reported as complete and without error.

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

Executed October 11, 2024, in the City of San Bernardino, State of California.

  
P. Jo Anne Quihuis

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28

## 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.

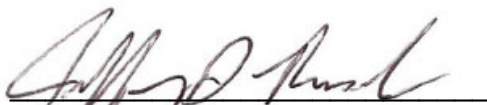
On October 14, 2024, the document(s) described below were served pursuant to the Mojave Basin Area Watermaster's Rules and Regulations paragraph 8.B.2 which provides for service by electronic mail upon election by the Party or paragraph 10.D, which provides that Watermaster shall mail a postcard describing 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:

**NOTICE OF ERRATA TO WATERMASTER'S AMENDED OPPOSITION TO GOLDEN STATE WATER COMPANY'S MOTION TO ENFORCE JUDGMENT; DECLARATION OF ROBERT C. WAGNER**

  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 October 14, 2024 at Apple Valley, California.

  
\_\_\_\_\_  
Jeffrey D. Ruesch



## Mojave Basin Area Watermaster Service List as of October 14, 2024

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17671 Bear Valley Road  
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

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.  
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## Mojave Basin Area Watermaster Service List as of October 14, 2024

Attn: Brenda Hyatt  
(calivolunteer@verizon.net)  
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(econorx@yahoo.com)  
Im, Nicholas Nak-Kyun (via email)  
23329 Almarosa Ave.  
Torrance, CA 90505-3121

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-

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

Attn: Paul Johnson  
(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

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  
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Los Angeles, CA 90024-

Attn: Robert R. Kasner  
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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  
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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

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Kim, Joon Ho and Mal Boon Revocable Trust  
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(juskim67@yahoo.com)  
Kim, Ju Sang (via email)  
1225 Crestview Dr  
Fullerton, CA 92833-2206

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

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

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

## Mojave Basin Area Watermaster Service List as of October 14, 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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tony.pena@libertyutilities.com)  
Liberty Utilities (Apple Valley Ranchos  
Water) Corp. (via email)  
P. O. Box 7005  
Apple Valley, CA 92307

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

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18838 Aldridge Place  
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Attn: Marian Walent  
(LVVMC677@gmail.com)  
Lucerne Vista Mutual Water Company (via  
email)  
P. O. Box 677  
Lucerne Valley, CA 92356-0677

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

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Lavanh, et al.  
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Lee, Anna K. and Eshban K. (via email)  
10979 Satsuma St  
Loma Linda, CA 92354-6113

Lee, Vin Jang T.  
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Newberry Springs, CA 92365

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

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

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

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

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



## Mojave Basin Area Watermaster Service List as of October 14, 2024

Attn: Maria Martinez  
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Long Beach, CA 90805-1423

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Mahjoubi, Afsar S.  
46622 Fairview Road  
Newberry Springs, CA 92365

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

Attn: Allen Marcroft  
Marcroft, James A. and Joan  
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Newberry Springs, CA 92365

Attn: James M. Hansen, Jr. (gm@mrcwd.org;  
gmmrcwd@gmail.com)  
Mariana Ranchos 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  
McCollum, 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  
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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  
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Mitsubishi Cement Corporation (via email)  
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Attn: Philip Mizrahie  
Mizrahie, et al.  
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Attn: Thomas A. Hrubik (tahgolf@aol.com)  
MLH, LLC (via email)  
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Apple Valley, CA 92307-0049

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

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

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

Attn: Doug Kerns  
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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

## Mojave Basin Area Watermaster Service List as of October 14, 2024

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

Núñez, 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  
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Oasis World Mission (via email)  
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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  
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1423 South Beverly Glen Blvd. Apt. A  
Los Angeles, CA 90024-6171

Attn: Jessica Bails (J4Dx@pge.com)  
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Hinkley, CA 92347-9592

Pak, Kae Soo and Myong Hui Kang  
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(wndrvr@aol.com)  
Paustell, Joan Beinschroth (via email)  
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Pearce, Craig L.  
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Perko, Bert K.  
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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  
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Newberry Springs, CA 92365

(s\_quakenbush@yahoo.com)  
Quakenbush, Samuel R. (via email)  
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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)  
Rancharitos Mutual Water Company (via  
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P. O. Box 348  
Apple Valley, CA 92307

## Mojave Basin Area Watermaster Service List as of October 14, 2024

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Attn: Brian C. Vail (bvail@river-west.com)  
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(LucerneJujubeFarm@hotmail.com)  
Rhee, Andrew N. (via email)  
11717 Fairlane Rd, #989  
Lucerne Valley, CA 92356-8829

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

Attn: Ian Bryant  
Rim Properties, LLC  
15434 Sequoia Road  
Hesperia, CA 92345-1667

Attn: Josie Rios  
Rios, Mariano V.  
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Rizvi, S.R Ali (via email)  
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Attn: Jackie McEvoy (billt@rrmca.com)  
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Attn: Bill Taylor or Property Mngr  
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Robertson's Ready Mix (via email)  
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Rossi Family Trust, James Lawrence Rossi  
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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 (sarafortuna@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  
(kanoëbarker@yahoo.com)  
Sagabeen-Barker, Kanoëolokelani 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  
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San Bernardino County Service Area 29 (via  
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222 W. Hospitality Lane, 2nd Floor (Spec  
San Bernardino, CA 92415-0450

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

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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

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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 (mescray@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-

## Mojave Basin Area Watermaster Service List as of October 14, 2024

Attn: Joseph Tapia  
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(gloriasheppard14@gmail.com)  
Sheppard, Thomas and Gloria (via email)  
33571 Fremont Road  
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Short, Jerome E.  
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Barstow, CA 92312-1104

Attn: Carlos Banuelos  
(maint@silverlakesassociation.com;  
fibarra@silverlakesassociation.com)  
Silver Lakes Association (via email)  
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Attn: Nepal Singh (NepalSingh@yahoo.com)  
Singh, et al. (via email)  
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Irvine, CA 92604-2956

Attn: Denise Smith  
Smith, Denise dba Amerequine Beauty, Inc  
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Newberry Springs, CA 92365-0188

Smith, Porter and Anita  
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San Diego, CA 92126-1254

Attn: Steve Kim (stevekim1026@gmail.com)  
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Victorville, CA 92393-2926

Attn: Chan Kyun Son  
Son's Ranch  
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