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8
9 **SUPERIOR COURT FOR THE STATE OF CALIFORNIA**
10 **COUNTY OF RIVERSIDE – CENTRAL DISTRICT**

11 MOJAVE BASIN AREA WATER CASES

JCCP NO.: 5265
Lead Case No. CIV 208568

12
13 CITY OF BARSTOW, et al.

Assigned for All Purposes to the
Honorable Harold W. Hopp, Dept. 1

14 Plaintiffs,

Honorable Craig G. Reimer, Judge
Presiding by assignment of the Chief
Justice

15 vs.

16 CITY OF ADELANTO, et al.

17 Defendants,

Amended RESPONSE BY NEWBERRY
SPRINGS RECREATIONAL LAKES
ASSOCIATION TO GOLDEN STATE
WATER COMPANY'S MOTION TO
ENFORCE JUDGMENT; DECLARATION
OF DR. W. RICHARD LATON, PG, CHG,
SUPPORTING THE RESPONSE

18
19 AND RELATED CROSS-ACTIONS.
20
21
22

Hearing Information:

Date: October 22, 2024

Time: 1:30 pm

Dept: M302 – Menifee Justice Center

23
24
25
26 NEWBERRY SPRINGS RECREATIONAL LAKE ASSOCIATION, hereinafter referred
27 to solely as "NEWBERRY", responds and supports the motion of Golden State Water Company,
28 AMENDED RESPONSE BY NEWBERRY SPRINGS RECREATIONAL LAKES ASSOC. TO GSWC'S
MOTION TO ENFORCE JUDGMENT, ETC. PAGE 1

1 another. Newberry argues that the Water Master Engineer, rather than object to new methods,
2 testing, and collection of data that tests prior assumptions, would welcome the opportunity to
3 better serve, and more reliably serve the water users of the Mojave Basin Area.
4

5 NEWBERRY and its various members, themselves, are vigilant as to their specific rights
6 and obligations under the Judgment. It has participated in all aspects with the Watermaster, has
7 kept itself informed and offered input and suggestion, even if only from its lay perspective. But
8 as a water user, among other users, it is sometimes more valuable to juxtapose common sense
9 and actual experience against the science, in order to challenge and find any shortcomings in the
10 scientific analysis and improve the outcomes for all users in the Basin.
11

12 **NEWBERRY'S POSITION IN SUPPORT OF GOLDEN STATE WATER COMPANY**

13 NEWBERRY understands that the Judgment After Trial was a compromise that was
14 supposed to remedy a problem. At the time of the original Judgment, NEWBERRY further
15 understood that the "Transition Zone" was established as the place for Alto to meet its
16 downstream obligation to Centro according to the Judgment. The assumption was that the water
17 flowing into the Transition Zone would continue downstream to the basins of Centro and Baja,
18 by keeping the groundwater table high. The conceptual metaphor of "keeping the cup full" is a
19 simple idea. If the cup is full, then when one adds an ounce of water to the cup, then an ounce
20 of water would also spill over to the next cup. (See Illustration from – Exhibit 3 to the
21 Amended Declaration of Dr. Laton.”
22
23

24 The Cup Full concept is also referred to as the "Water Bridge". The Transition Zone has a
25 descending elevation difference from south (higher elevations) to north (lower elevations). When
26 water is added on the south side it should spill over the Helendale fault at the north end. This is
27 the issue we believe that the Golden State motion addresses; it is necessary to confirm the
28 AMENDED RESPONSE BY NEWBERRY SPRINGS RECREATIONAL LAKES ASSOC. TO GSWC'S
MOTION TO ENFORCE JUDGMENT, ETC. PAGE 3

1 spillover. The Watermaster appears not to have the best scientific data available when it makes
2 its annual recommendation. Based upon the ongoing decline in water levels in the wells of the
3 Golden State Water Company (despite all reduction in pumping), the projected “spill” into
4 Centro appears not to have happened.

5
6 NEWBERRY has always maintained the position that amount of reported water from the
7 Alto Subarea to the Transition Zone and then to Centro has not been accurately measured. It has
8 also participated in numerous meetings to bring this position to the Watermaster and its
9 Engineer. However, as a lesser stakeholder, at the bottom of the Water Bridge, or the “last cup”,
10 so to speak, its presentations and arguments have been politely regarded with no action
11 taken. NEWBERRY believes that the “economy of scale”, that of spending dollars to benefit the
12 greatest number of water users, has been the constraining factor as to its solo efforts, both from a
13 cost and benefit analysis.

14
15 NEWBERRY contends that the obligation to supply water to the Transition Zone was
16 clearly a vehicle or means to resolve Barstow's complaint/needs set forth in the underlying
17 action. If it were otherwise, the actual settlement would have been worthless for the downstream
18 areas and a windfall for the upper basins.

19
20 As we now have three decades of information, it appears to be the time to accurately
21 report, update and explain just what is happening, . Numerous factors contribute to the need to
22 ascertain if the water bridge is working as intended. Issues to be addressed, from
23 NEWBERRY’S perspective include:

24
25 1. The science used was flawed, therefore the settlement is flawed and should be
26 amended.

1 2. The water level in the Transition Zone has increased but it is unknown if the
2 projected amount of water is flowing to the Centro Subbasin.

3 3. The settlement is being interpreted wrongly by MWA/Watermaster.

4 4. River forces have changed since the settlement.

5
6 Possible changes/forces to the Mojave River since the Judgment are:

7 1. Mojave Water Agency R3 project now pumps from the River to send water to
8 customers for a profit.

9 2. Flood control on the River and tributaries that slow storm flow and allow for more
10 water attenuation in the upper basin as was set forth and learned in the “Briefing on the Cedar
11 Springs and Forks Dam”, by Matthew Howard of the Mojave Water Agency Cedar Springs Dam
12 was built in 1971: Forks Dam was built in 1974.

13 3. Slow release of water from the Cedar Springs Dam

14 4. Overgrown channel through the Transition Zone

15 5. Climate Change

16
17
18 **CONCLUSION**

19 NEWBERRY contends that these multiple factors support the need to challenge the
20 existing scientific methodology to ascertain if it is still the best science available. As set forth in
21 the motion by Golden State Water Company and the declaration of Dr. Laton filed concurrently
22 herewith, the issue is ripe and the requested relief, if ordered, would benefit all parties.

23
24 Dated: October 8, 2024

Diana J. Carloni

25
26 _____
27 DIANA J. CARLONI, ATTORNEY
28 FOR NEWBERRY SPRINGS
RECREATIONAL LAKES
ASSOCIATION

DECLARATION OF DR. W. RICHARD LATON

1 I, W. Richard Laton, declare as follows:

2 1. I am the Principal Hydrogeologist and President/Owner of Earth Forensics, Inc. I am an
3 expert in the field of geology, hydrology, hydrogeology, environmental contamination, and contaminated
4 site investigations. I possess extensive knowledge and experience in the areas of hydrogeology, soil and
5 water contamination, water quality, corrective action, hydrology and surface water, site assessment, site
6 investigation, site remediation, wetlands, coastal monitoring/geomorphology, environmental field sampling
7 techniques, and well hydraulics, waste management, as well as environmental remote sensing, aerial
8 photographic interpretation/analysis and geographical information system (GIS). See **Appendix A**: CV.

9
10 2. My educational background that relates to this case is as follows: 1997 – Ph.D. in
11 Hydrogeology, Western Michigan University; 1992 – M.S. in Environmental Earth Science, Western
12 Michigan University; 1989 – B.A. in Earth Science, St. Cloud State University, Minnesota.

13 3. I am a licensed Professional Geologist in California, Alaska, Arizona, Illinois, Indiana,
14 Florida, Minnesota, New York, North Carolina, Oregon, Pennsylvania, Texas and Washington. I am also
15 a licensed Professional Hydrogeologist in both California and Washington. I am a Certified Professional
16 Geologist with the American Institute of Professional Geologists and a Certified Professional Geologist for
17 the European Union.

18
19 4. I am a Professor of Hydrogeology in the Department of Geological Sciences at California
20 State University, Fullerton, California. This career continuation includes years of teaching, consulting,
21 litigation support, and management experience. My course topics encompass hydrogeology, water quality,
22 environmental sampling, groundwater modeling, well hydraulics, remediation technologies,
23 RCRA/CERCLA compliance, meteorology, oceanography, geology, drilling and well construction, field
24 hydrogeology, borehole, and surface geophysics.

25
26 5. I have worked as a consultant and researcher within the Mojave River/Desert area. This
27 includes research conducted for and on behalf of the Mojave Water Agency in developing conceptual basin
28 models and geological and hydrogeological mapping. My work was under specific assignments and

1 projects, resulting in reports, most of which were grant-funded and related solely to the specific purpose of
2 the study. Additional work was performed by the Agency to determine the groundwater flow between
3 basins and what, if any, changes had taken place at the time of the studies. This overall research resulted
4 in no less than 16 public reports, 18+ presentations, and 12+ theses. Consulting efforts have included the
5 evaluation of blowing sand, mountain-front recharge, and surface flow, as well as specific site evaluations
6 for water resource supply.

7 6. I have been asked and retained by Newberry Springs Recreational Lake Association
8 (NSRLA) for the purpose of providing opinions (recommendations) on the following issues affecting the
9 Alto Transition Zone, Centro, and Baja sub-area.

10
11
12 The Mojave Judgment after Trial (Judgment) (Judgement, 1996) states the Mojave Water Agency (MWA)
13 and Watermaster (Watermaster) shall manage the Mojave Basin Area (MWA/Watermaster). The stated
14 missions of the MWA/Watermaster are represented below (taken from Agency website):

15 **Mojave Watermaster Mission**

16 *“MWA was appointed as Watermaster in 1993 pursuant to the Court Judgment which*
17 *adjudicated the rights to pump groundwater in the Mojave Basin Area. Watermaster's main*
18 *responsibilities are to monitor and verify water production for approximately 450 parties*
19 *(1,700 wells), collect required assessments, conduct studies and prepare an annual report*
20 *of its findings and activities to the Court.” ([https://www.mojavewater.org/basin-](https://www.mojavewater.org/basin-management/watermaster/)*
21 *management/watermaster/)*

22 **Mojave Water Agency Mission**

23 *“To manage the region's water resources for the common benefit to assure stability in the*
24 *sustained use by the citizens we serve” (MWA 2020-21 Annual Budget)*

25 MWA/Watermaster is responsible for managing the areas shown in **Exhibit 1:** Map showing Alto, Alto
26 Transition Zone (TZ), Centro, and Baja Sub-areas. **Exhibit 1** also has the location of Mojave River USGS
27 stream gages (active and inactive) and the major faults within the MWA/Watermaster service area.
28

1
2 The following are definitions of various terms as used in the Judgement and MWA/Watermaster reports
3 (Judgment Pages 7-13):

4 Hydrologic subarea / sub-basin: *“The five subareas of the Mojave Basin Area – Este, Oeste, Alto,*
5 *Centro and Baja.”*

6 Transition Zone (TZ, Alto to Centro Transition Zone; Alto Transition Zone (Alto TZ); Transition
7 to Centro Subarea): *“The portion of the Alto Subarea, shown on Exhibit "A", that lies generally*
8 *between the Lower Narrows and the Helendale Fault.”*

9 Obligation: *“The average annual amount of water that a subarea is obligated to provide to an*
10 *adjoining downstream subarea or the Transition zone or, in the case of the Baja subarea, the*
11 *average annual subsurface flow towards Afton at the WMA eastern boundary as set fourth in*
12 *Exhibit “G.””*

13 Subarea Obligation: *“The average Annual amount of water that a Subarea is obligated to provide*
14 *to an adjoining downstream Subarea or the Transition Zone or, in the case of the Baja Subarea,*
15 *the average Annual Subsurface Flow toward Afton at the MWA eastern boundary as set forth in*
16 *Exhibit "G.”*

17 Subsurface Flow: *“Groundwater which flows beneath the earth's surface.”*

18 Baseflow: *“That portion of the total surface flow measured Annually at Lower Narrows which*
19 *remains after subtracting Storm Flow.”*

20 Storm Flow: *“That portion of the total surface flow originating from precipitation and runoff*
21 *without having first percolated to Groundwater storage in the zone of saturation and passing a*
22 *particular point of reckoning, as determined annually by the Watermaster.”*

23 Makeup Obligation: *“The obligation of a Subarea to pay for Makeup Water to satisfy its Subarea*
24 *Obligation.”*

25 VVWRA Discharge: *Victorville Valley Wastewater Reclamation Authority discharges treated*
26 *wastewater back to the Mojave River at the Victorville Valley Wastewater Reclamation Plant,*
27 *located (20111 Shay Road, Victorville, CA 92394) within the Alto Transition Zone.*

28 Watermaster: *The Person(s) appointed by the Court to administer the provisions of the judgment.*
Which as the date of this declaration is the still the Mojave Water Agency.

**OBLIGATION OF WATER FLOW BETWEEN SUBAREAS (ALTO TZ TO CENTRO SUB-
AREA)**

The 1996 Judgment calls out an annual obligation of the Alto sub-area to downstream sub-area(s). This obligation has been calculated as 23,000 acre-feet per year (AFY) (Judgment, Page G-2). The amount of

1 obligation water entering the sub-areas is estimated annually by the MWA/Watermaster as baseflow +
2 VVWRP discharge + subsurface (groundwater) flow, and the addition of any makeup obligation purchases
3 (Watermaster Annual Report 2023, Figure 3-10). This assumes that maintaining a constant water level
4 within the Alto TZ equates to flow into and out of the Alto TZ, which must equal flow into the Centro sub-
5 area.

6
7 Specifically, the Watermaster Annual Report 2023 Page 26 state the following:

8 *“The elements for calculating outflow from the Transition Zone to the Centro Subarea include:*

- 9
- 10 • *Long-term subsurface outflow (Table 5-1)*
 - 11 • *Surface water outflow leaving the Transition Zone (which becomes inflow to the Centro Subarea)*

12 *Surface water outflow from the Transition Zone to the Centro Subarea is calculated based on*
13 *the assumption that change in storage in the Transition Zone is zero. Historical water levels in*
14 *the Transition Zone are stable over long periods of time (Figure 3-13). Therefore, for*
15 *simplicity, surface water outflow is determined as the sum of water supply, less the sum of*
16 *consumptive use and subsurface flow. Figure 3-10 shows that since the end of the hydrologic*
17 *Base Period (1931-1990), average flow to Centro (1991-2020) has exceeded the Base Period*
18 *average.”*

19 MWA/Watermaster has described in their annual reports and graphics that they are obligated to measure
20 the flow to the Centro sub-area, not the Alto TZ (Judgment, Page G-2). As shown in **Exhibit 2**, the
21 MWA/Watermaster describes the “Average Annual Subarea Obligation to Centro” as 23,000 AFY
22 (Watermaster Annual Report 2023, Figure 3-10). Exhibit 2 shows the total outflow in 2022-2023 was
23 approximately half of what was calculated in 2004-2005 into the Centro sub-area. However, as shown in
24 Exhibit 6 (described in the section below), the surface flow at the Barstow gage was less than ten percent
25 of what was observed in 2004-2005. Further, **Exhibit 3** MWA/Watermaster shows the Proposed Judgment
26 Subsurface obligation from Alto to the Baja Sub-area. This obligation assumes a minimum subsurface
27 flow, a baseflow guarantee, the Alto TZ “water bridge,” and no interference with storm flows.

28 MWA/Watermaster referred to a concept called “water bridge” to explain water movement from the Alto
TZ sub-area to the Centro sub-area (URS Mojave River Transition Zone Recharge Project Page 80). This

1 concept assumes that if water levels are relatively stable (with no change in storage), the flow coming into
2 a sub-area will equal the flow coming out of the sub-area.

4 SOURCE OF OBLIGATION FLOW VALUES IN THE JUDGMENT

5 The current estimate of subsurface flow between the Alto sub-area and Centro sub-area is 2,000 AFY in
6 the Judgment and is used in the Watermaster Annual Reports (Judgment, G-2, Watermaster Annual Report
7 2023). These estimates are based on published volumes reported more than 70 years ago (DWR Bulletin
8 84, 1967). Additionally, the location where these calculations were measured is around 3 miles
9 (Community of Helendale) from the actual legal basin boundary (the MWA sub-basin boundary) as defined
10 in the Judgment. As the climate is changing, these calculations need to be revisited with flow data that is
11 more relevant than the flow rates tied to periods that were much wetter than today.
12

14 STREAM GAGE

15 Over the years, the United States Geological Survey (USGS) and others have maintained and operated
16 multiple stream-gaging stations along the Mojave River. Some of these gages were only operational for a
17 short period of time, while others have had prolonged periods of operations. **Exhibit 1** shows all known
18 gages and the period of time that they were in operation. Several locations have been measured as only a
19 single one-time survey of surface water flow. The stream gaging stations used by the Watermaster to
20 evaluate the surface flow of the Mojave River are the Mojave River Forks, Dam Deep Creek, Lower
21 Narrows, Barstow, and Afton Canyon gages. These gages cover approximately 117 miles of the river,
22 including the flow between sub-areas Alto, Centro, and Baja.
23

24
25 Historically, multiple stream gages have been within the Alto TZ and the Centro sub-area upstream of the
26 City of Barstow. These included Upper Narrows, Point of Rocks, Wild Crossing, and Hodge gages. In
27 2022, USGS re-established the gage at Hodge and established a new gage at Daggett (see **Exhibit 1**).
28

KEY WELL PROGRAM

The MWA/Watermaster maintains a key groundwater well monitoring program within its agency's management area. These groundwater wells are located throughout the various sub-areas. **Table 1** and **Exhibit 4**: Groundwater Monitoring Wells listed below show the wells used for determining the overall groundwater levels within the Alto TZ sub-area. A review of the groundwater levels obtained from USGS NWIS website (<https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels>) for USGS well 08N04W31R01 with groundwater level records dating back to the 1930s indicates that groundwater levels have declined since the 1950s and have never fully recovered to those historic 1930-1950 levels (see **Exhibit 5**: Groundwater levels).

Table 1: MWA/Watermaster Key Groundwater Wells-Transition Zone

Well ID	Depth (ft, bgs)	Screen Interval (ft, bgs)	Length of Record (years)
08N04W19G04	103.3	80-100	1994-2024
08N04W29E06	41.6	30-40	1994-2024
07N05W23R03	315	295-315	1991-2024
07N05W24R08	50	45-50	1991-2021
06N04W30K16	31.6	26-31	2008-2023
06N04W30J05	23.9	Unknown	1996-2024
06N04W29M01	22.5	Unknown	1991-2021

Groundwater levels data obtained from the USGS NWIS website (<https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels>) shows that three of the seven key wells (08N04W19G04, 08N04W29E06, and 06N04W29M01) listed above have been in decline since 2012 (see **Exhibit 5**: Groundwater levels).

HISTORICAL CALCULATION OF FLOW

The annual obligation of flow between sub-areas includes both baseflow (surface water flow) and subsurface (groundwater) flow. The 23,000 AFY obligation to Alto TZ does not flow directly into the Centro sub-area. It is questionable if this flow does make its way to the Alto-Centro sub-area boundary, just downstream from the Community of Helendale. The MWA/Watermaster has admitted that there is no accounting of how much-obligated water flows into the Centro sub-area from the Alto TZ because there

1 are no active stream gages near this boundary (Mojave Basin Area Watermaster Appendix A, Page 1).
2 Historically, at least 3 gages have been between the existing Lower Narrows (Alto TZ) and Barstow (Centro
3 sub-area) stream gages. These are the Point of Rocks, Wild Crossing, and Hodge historical gages. These
4 gages, however, only have records of between 3 to 24 years. In 2022, the USGS re-established the Hodge
5 gage and a new one at Daggett (located downstream of the Barstow Gage).

6
7 The baseflow obligation of 21,000 AFY to the Alto TZ is calculated using the Lower Narrows gage records.
8 Baseflow calculations for the purpose of basin obligation exclude storm flows (Judgment, see defined terms
9 above). The baseflow accounting does, however, include supplemental wastewater provided by VVWRA,
10 starting in 1986. This treated wastewater is discharged to the Mojave River in the Alto TZ about 4 miles
11 downstream of the Lower Narrows gage. Records found in MWA annual reports indicate that discharges
12 from VVWRA have increased, with discharge varying from 4,346 to 15,095 AFY between 1986 and 2023
13 (as obtained from Watermaster Annual Reports 1986 through 2023).

14
15
16 A review of historical monthly aerial photographs viewed on Planet (<https://www.planet.com/>) and stream
17 gages obtained from USGS NWIS (<https://nwis.waterdata.usgs.gov/>) between the Lower Narrows and
18 Barstow indicates that subsurface baseflow into the Centro sub-area is limited in duration and volume.
19 With little, if any, surface water reaching the actual boundary. Dry-flow year baseflow into the Centro sub-
20 area is only a fraction of the 21,000 AFY that flows into the Alto TZ.

21
22
23 **Exhibit 6:** Historical Annual Stream Gage Flow Data, is a table that shows a compilation of Annual stream
24 flow measured at Mojave River stream gages since 1909, note that not all of the gages have been operational
25 during the same time period. These records were obtained from USGS NWIS (<https://nwis.waterdata.usgs.gov/>). The 21,000 AFY of surface water inflow is calculated from stream gage records at the Lower
26 Narrows stream gage. Stream gage data at the Lower Narrows before VVWRA (**Exhibit 6**) shows annual
27 flows between 16,651 and 28,235 AFY with an average of 21,619 AFY during average low-flow years (dry
28

1 year). At the Wild Crossing stream gage, the maximum flow rate observed during non-storm years was
 2 3,779 AFY during the 4 years the gage was operational. At the Hodge stream gage, during dry-flow years,
 3 the maximum flow rate observed was 2,317 AFY, and during the 25 years, the gage was operational.

4
 5 The subsurface flow (groundwater) is assumed to be 2,000 AFY at the Alto TZ and Centro sub-area
 6 boundary. This value for subsurface flow used in the Judgment for sub-area obligation was taken from
 7 DWR Bulletin 84, published in 1967. The sub-area delineated by DWR where these flows were assumed
 8 was located near the Community of Helendale which is not the actual legally defined boundary by the
 9 Judgment. In reviewing Bulletin 84, there is no actual calculation or explanation as to how the 2,000 AFY
 10 was calculated. However, this number has been passed along from report to report without ever being re-
 11 evaluated and adjusted (see **Table 2: Subsurface Flow**).

12
 13 **Table 2: Subsurface Flow**

Boundary	Source	Year	Subsurface flow (AFY)	Location
TZ-Centro	DWR	1967	2,000	At 1967 Sub-unit boundary
TZ-Centro	Judgment	1996	2,000	At 1967 Sub-unit boundary*
TZ-Centro	USGS 2001	2001	5,000-6,000	At Helendale Fault
TZ-Centro	USGS 2001	2000	1,566	At Helendale Fault
TZ-Centro	URS	2002	4,600	At Helendale Fault
TZ-Centro	Laton	2004	1,100-2,220	At Helendale Fault
Alto-TZ	Webb	2000	4,590	At Lower Narrows
Alto-TZ	URS	2002	4,900	At Lower Narrows

14
 15
 16
 17
 18
 19
 20 *from DWR, 1967

21
 22 It is impossible to validate the Judgment obligations without actual data (either stream gage or
 23 groundwater). This becomes even more important as climate changes and the stresses placed on the water
 24 resources of the MWA/Watermaster area increase; therefore, this should be reevaluated yearly.

25
 26 As discussed above review of monthly aerial photography Planet (<https://www.planet.com/>) and USGS
 27 stream records for the previous 8 water years, indicates that baseflow to the City of Barstow has only
 28 occurred twice during those 8 years. The observed baseflow was 169 AF during the 2019 water year and

1 8,688 during the 2023 water year. Water years 2016, 2017, 2018, 2020, 2021, and 2022 were considered
2 dry-flow years. Of those dry years, no flow was observed past the historic Hodge stream gage location.
3 For two years (2017 and 2020), baseflow was observed past the historic Wild Crossing gage. In 4 of the
4 dry years (2016, 2018, 2021, and 2022), baseflow only made it past the historic Point of Rocks gage location
5 but ceased before the historic Wild Crossing gage. If gages had been operating at these historic locations,
6 a better understanding of baseflow in this area could be assessed. The aerial photographs indicate that no
7 flow reached the Centro sub-area in 4 of the 8 years. On the remaining 2 dry-flow years, low baseflow
8 entering the Centro sub-area seemed minimal because most flows ceased before the historic Wild Crossing
9 gage. Still, there is no way to quantify the baseflow because there are no gages at the Alto – Centro sub-
10 area boundary.
11

12 **DEFICIENCIES OF THE MONITORING PROGRAM**

13
14 An updated monitoring program, with actual data at the point of compliance, is needed in order to evaluate
15 the actual flows between sub-areas. The following are several easily implemented changes that would
16 provide data to close the gap on actual obligated flows at the sub-area boundaries.
17

18 The first problem is the location of active stream gages. The Lower Narrows gage is 19 miles upstream,
19 the compliance boundary between Alto and Centro sub-areas. The same is true of the Barstow gage as it is
20 26 miles downstream of the same boundary (**Exhibit 1**). In the past, several gages would be more useful
21 to Watermaster in determining actual baseflow at the Alto – Centro sub-area boundaries, such as the Point
22 of Rocks and Wild Crossing. The gage near Hodge was re-established; however, it has only been in
23 operation since 2022 (**Exhibit 1**). Though further from the Alto – Centro sub-area boundary, this gage is
24 suited for determining surface flows within the Centro sub-area. During its previous operation, the Hodge
25 gage recorded significant storm seasons in 1978, 1980, 1983, and 1993. The Point of Rocks gage was
26 previously only operational for 4 years, and it survived the 1969 storm season with the highest annual flow
27 rate measured at the Lower Narrows gage (**Exhibit 6**).
28

1 Stream gaging in an arid environment with flow ranging from zero to significant is difficult. There are
2 several solutions to the problem. One is to re-establish the previous stream gages. Second, it would be at
3 least a minimum to install live video feeds at select locations along the Mojave River. Though not
4 qualitative, this would at least provide real-time quantitative information MWA/Watermaster and the sub-
5 area constituents.
6

7
8 MWA/Watermaster should provide real-time groundwater levels within all the agency's sub-areas via their
9 Key Well program. This should be tied to real-time groundwater production and the above baseflow in
10 order to truly manage the water under the control of the agency. Based upon the Judgment, this seems to
11 be well within the rights of WMA/Watermaster.
12

13
14 In order to provide total transparency in water management, MWA/Watermaster should have real-time
15 monitoring on its website. This could be tied to actual subarea water balance calculations and give
16 invaluable information to the MWA/Watermaster constituents. This would also allow for the constituents
17 to plan for any potential ramp-down or changes in allowable free production allowances.
18

19 **SUMMARIZED FROM PREVIOUS DECLARATION: Declaration of Dr. W. Richard Laton,**

20 **October 1, 2018 (Appendix C)**

21
22 Groundwater modeling by the USGS has shown that groundwater pumping in upstream subareas has a
23 substantial impact on storage downstream in both the Centro and Baja sub-areas. Todd Engineering
24 (Conceptual Hydrogeologic Model, July 2013, Page ES-11) stated the following:

25 *“Based on simulations with the USGS model, upper basin pumping (not including Centro) was*
26 *estimated to account for about 21 percent of groundwater lost from storage in the Baja Subarea*
27 *over the base period (1931 to 1990). The USGS did not simulate the effect of upstream pumping in*
28 *Centro on stream discharge and recharge in Baja.”*

1 Based on this loss in storage, we calculate a loss of 92,750 AF for the 25 years from 1993-94 to the 2017-
2 2018 water years or 3,710 AFY to the Baja sub-area. This unaccounted overdraft is based on the loss of
3 storage during the base period (1931-1990) and projected forward into the adjudication period. **These**
4 **losses were unaccounted for in the MWA/Watermaster initial calculations.**

5
6 To summarize, due to the historical distribution of storm events that lead to storm flows that ultimately
7 flow into the Baja sub-area and the overestimate calculated by the MWA/Watermaster of about 225,000
8 AF of flow have not been realized and thus have contributed to sub-area overdrafts. Additionally, the
9 MWA/Watermaster has not fully considered the effects of pumping in up-gradient sub-areas as the USGS
10 modeled. To date, this has not been evaluated nor included in the MWA/Watermaster's calculations for
11 water budgets.
12

13
14 The Centro sub-area groundwater is some 25 feet lower than pre-Judgment, but generally has remained
15 constant since the adjudication. This creates the illusion of the Centro subarea being in balance and sending
16 the required outflow to downstream sub-areas, when in fact, the water never spills over to flow downstream,
17 resulting in the loss of subsurface flow that should have flowed annually to the Baja sub-area.
18

19 CONCLUSION AND OPINIONS

20
21 In 2001, the USGS stated, "*Overall, pumping in the lower region does not negatively affect the upper*
22 *region: however, pumping in the upper region negatively affects the lower region by decreasing recharge*
23 *from the Mojave River.*" (Stamos et al., 2001).
24

25 Based on the information in the declaration and the above statement, the following opinions can be drawn.

- 26 • Baseflow is that portion of the total surface flow measured annually, which remains after
27 subtracting storm flow. Storm flow does not count towards any baseflow obligation to any sub-
28 area.

- 1 • The calculated water obligation to the Centro sub-area is not based on sound science. There is
2 limited to no data at the compliance boundary (baseflow or subsurface flow).
- 3 • MWA/Watermaster cannot adequately provide an estimate of water moving from Alto to Centro
4 sub-areas given the lack of data; specifically, the amount of water flowing out of Alto TZ and into
5 the Centro sub-area and to a lesser degree from Centro to Baja sub-area.
- 6 • MWA/Watermaster has failed to meet their duty by not adequately installing stream gages and
7 monitoring wells to collect boundary-specific data.
- 8 • Baseline conditions used in the original Judgment do not apply to current conditions. The climate
9 has been and is evolving. The change in stresses to exiting water resource conditions and the
10 original deficiencies from previous studies (from as far back as the last century) all need to be re-
11 visited with actual data.
- 12 • The 21,000 AFY of baseflow obligation to the Alto TZ (which is part of the Alto sub-area) and the
13 subsequent obligation of baseflow to the next downstream sub-area (Centro) is essentially non-
14 existent.
- 15 • Simple aerial imagery analysis shows that the obligated baseflow is not making its way to the
16 Centro sub-area and, therefore, not making it to the Centro-Baja sub-area boundary.
- 17 • It is critical that the historical stream gages closer to the compliance boundary be re-established
18 between the Alto and Centro sub-areas.
- 19 • MWA/Watermaster has failed to meet their duty by not adequately measuring or monitoring water
20 flow between sub-areas. As such, there has been calculable harm done to downstream sub-areas.
- 21 • Based on a loss in storage in the Centro sub-area, the Baja sub-area has seen a realized loss of
22 92,750 AF for the 25 years since 1993-94 water year or 3,710 AFY.
- 23
- 24
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This declaration sets forth my opinions and the information upon which I relied (see, **Appendix B** and **Exhibit 7**).

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I declare under penalty of perjury of the laws of the State of California that the foregoing is true and correct and that I have executed this declaration on the 9th day of October 2024, in Santa Ana, California.



Dr. W. Richard Laton, PG, CHg
President of Earth Forensics, Inc.
Principal Consultant, Hydrogeology

Exhibits

Exhibit 1

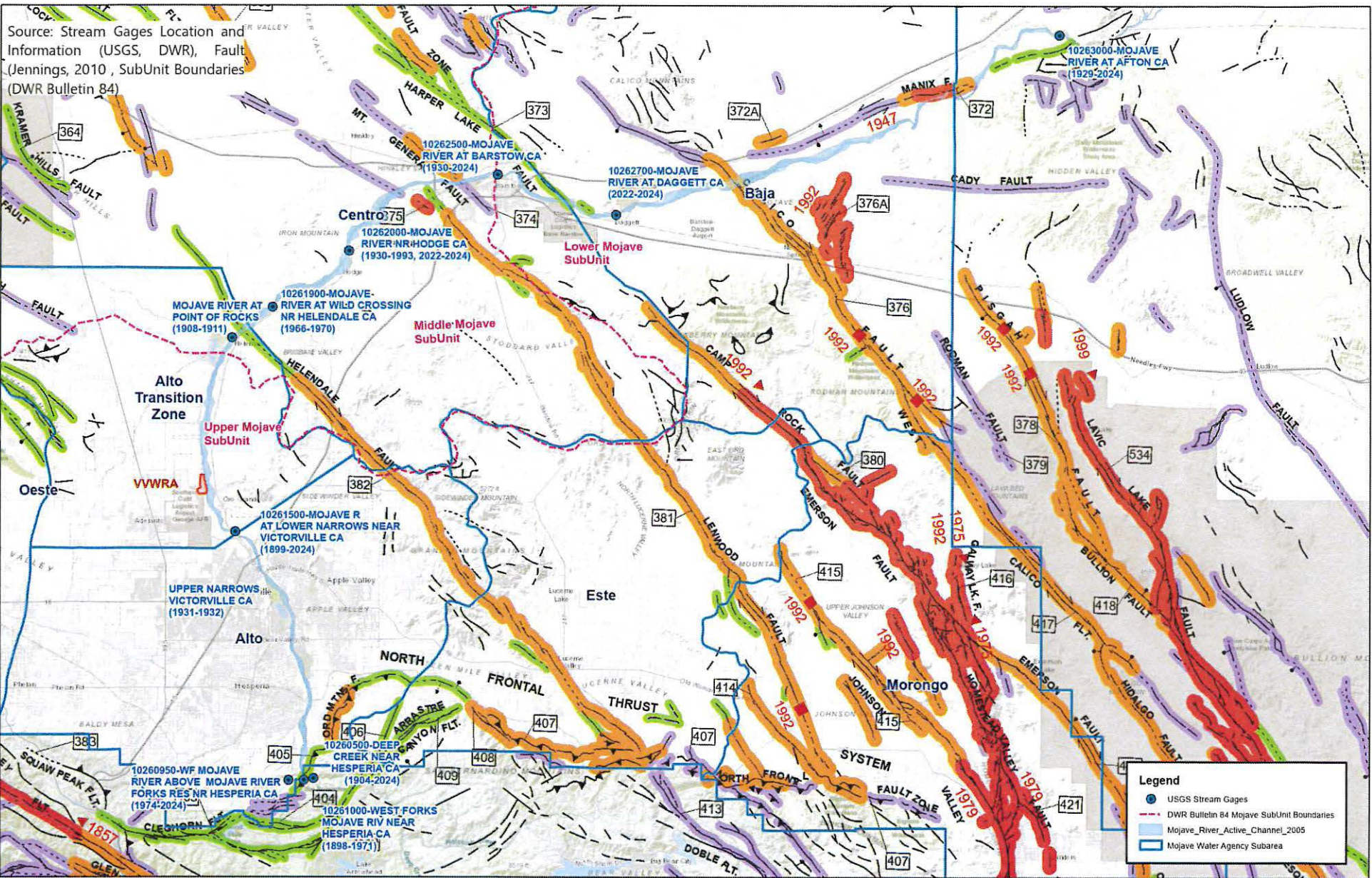


Exhibit 1: Map Showing Alto, Alto Transition Zone, Centro, and Baja Sub-areas

Exhibit 2

Transition Zone Water Balance

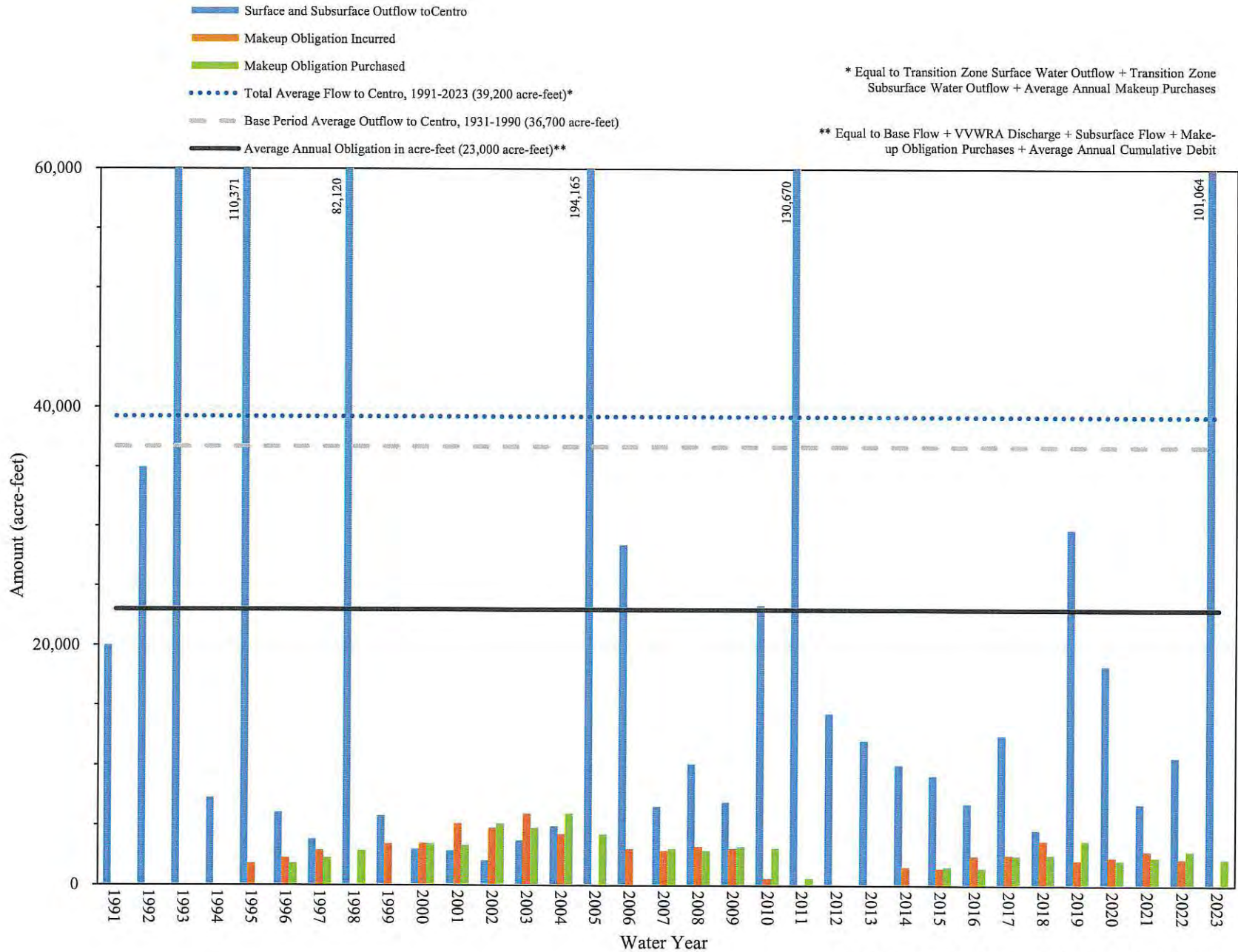


FIGURE 3-10

Exhibit 3

Proposed Judgement

Subarea Obligation

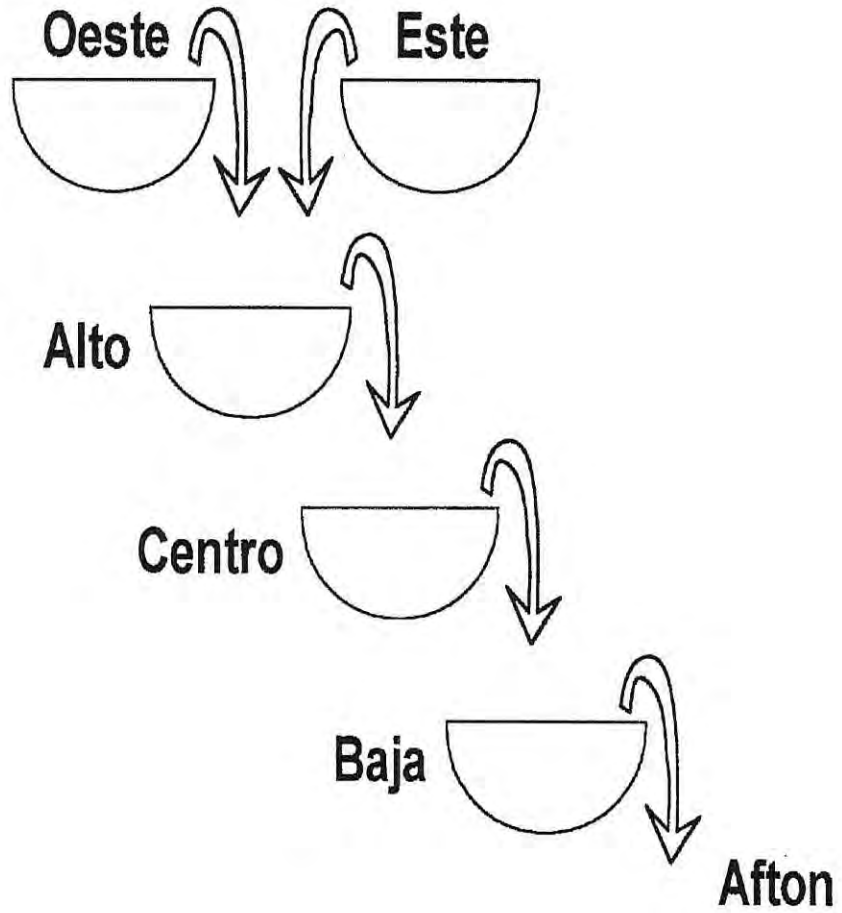


Exhibit 4

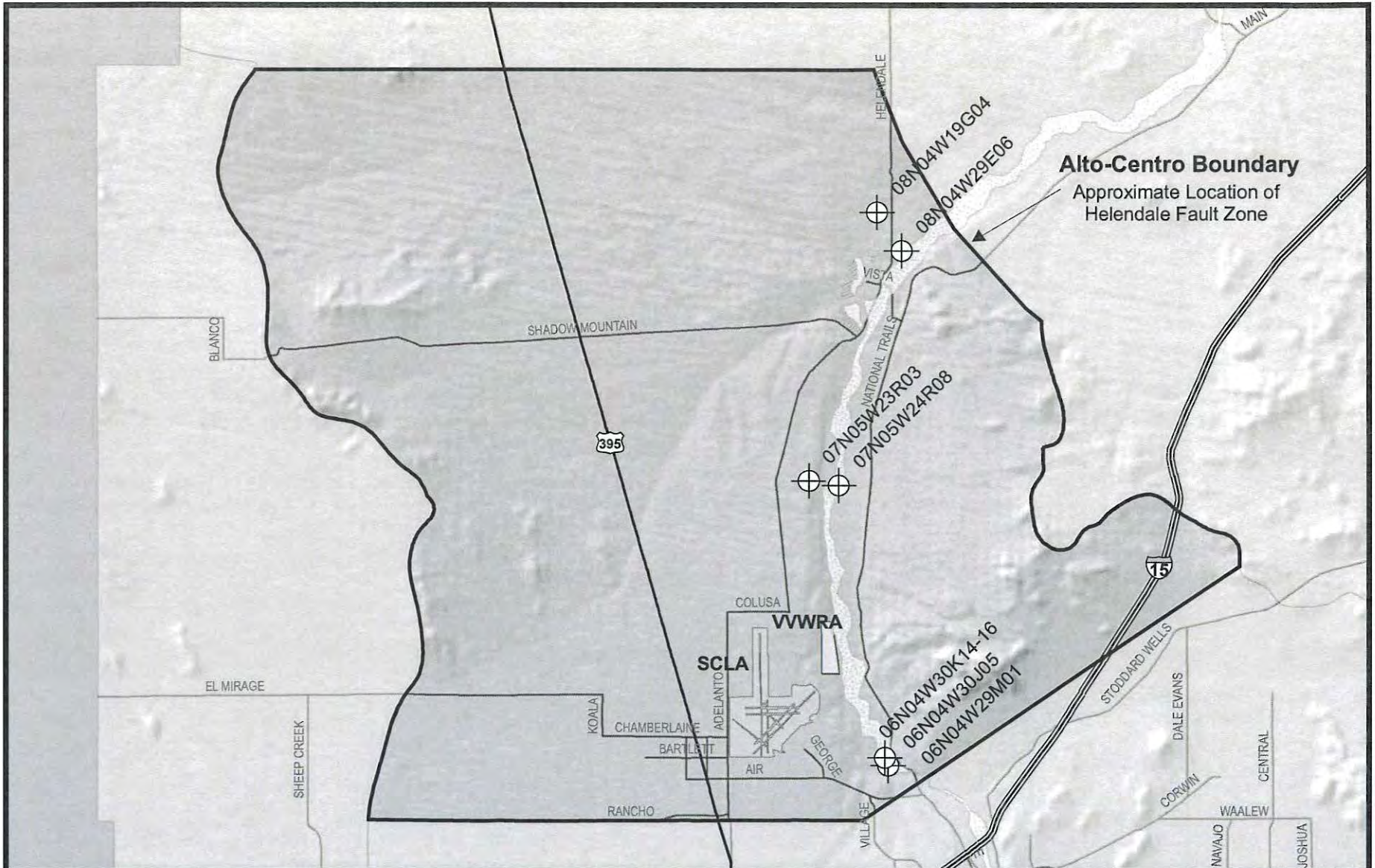


FIGURE 3-6

MOJAVE BASIN AREA
WATERMASTER

 Monitoring Wells

Alto Transition Zone Location of Water Level Monitoring Wells

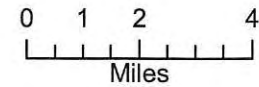
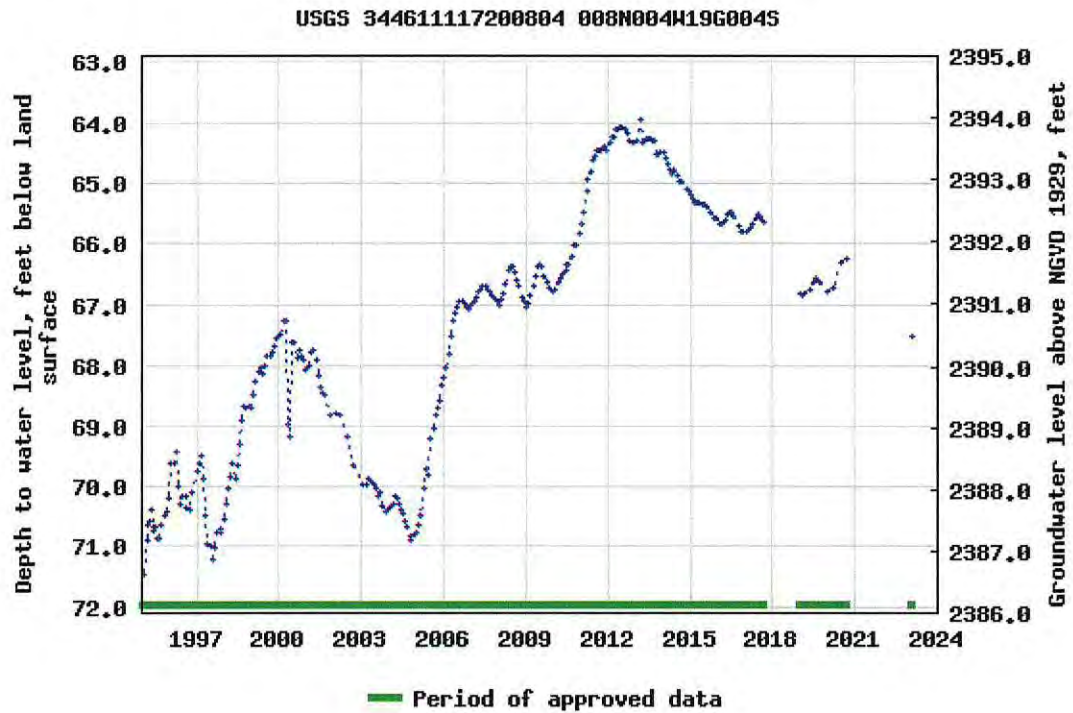


Exhibit 5

Attachment D: Groundwater Levels

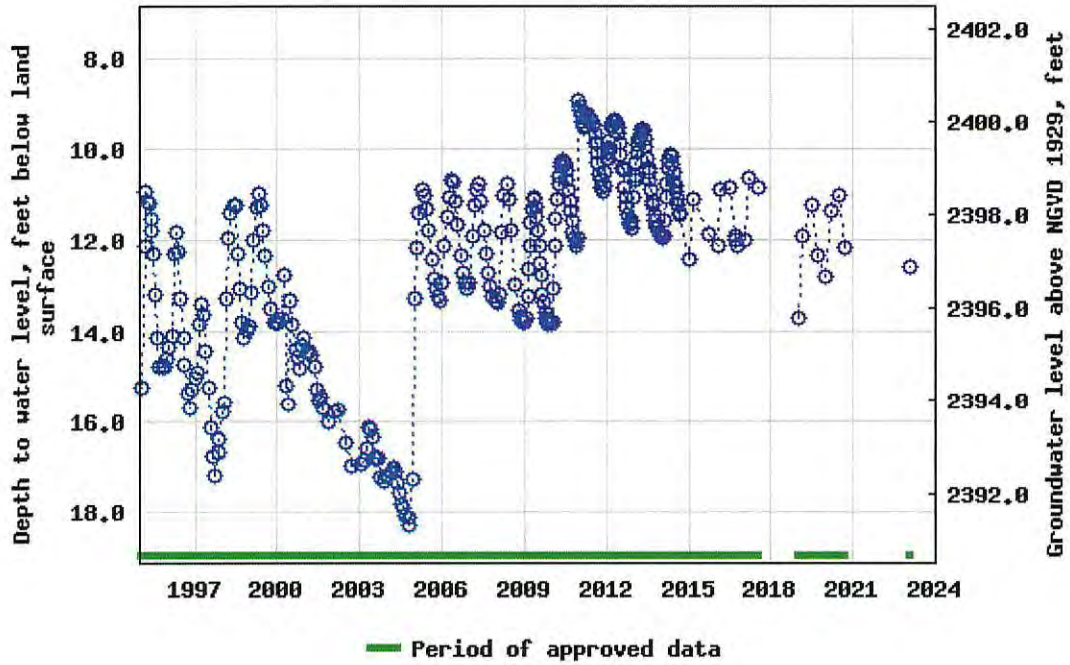
- 08N04W19G04
- Land-surface elevation 2,458.00 feet above NGVD29
- The depth of the well is 103.3 feet below land surface.
- The depth of the hole is 320 feet below land surface.



o 08N04W29E06

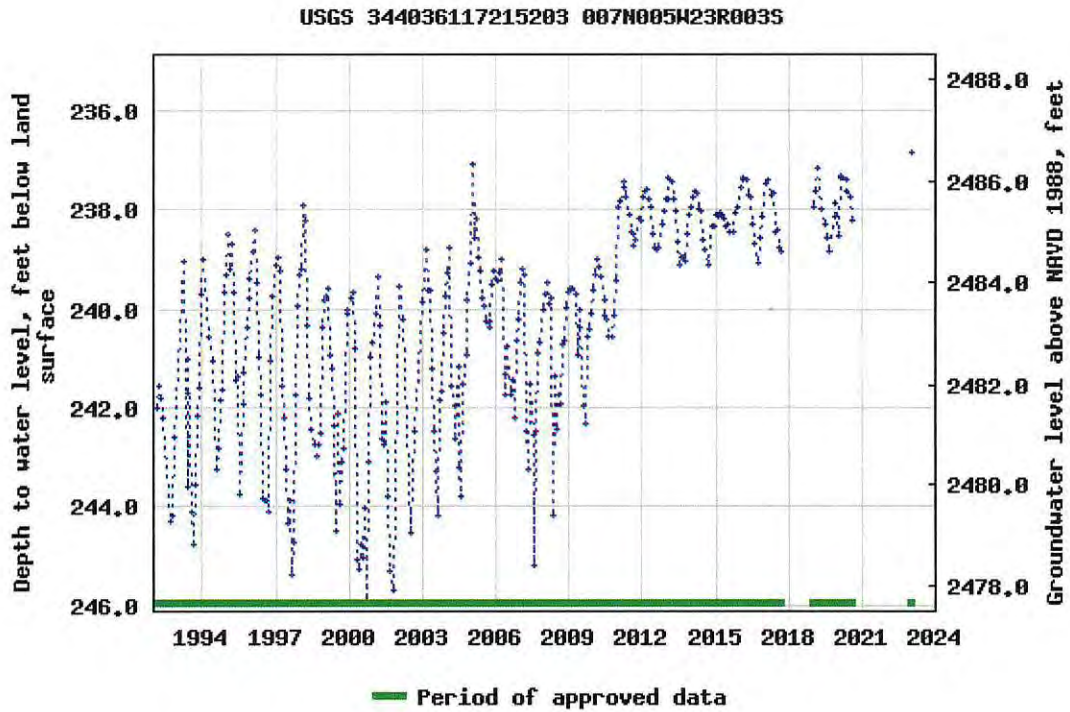
Land-surface elevation 2,409.49 feet above NGVD29
The depth of the well is 41.6 feet below land surface.
The depth of the hole is 309 feet below land surface.

USGS 344524117193404 008N004W29E006S



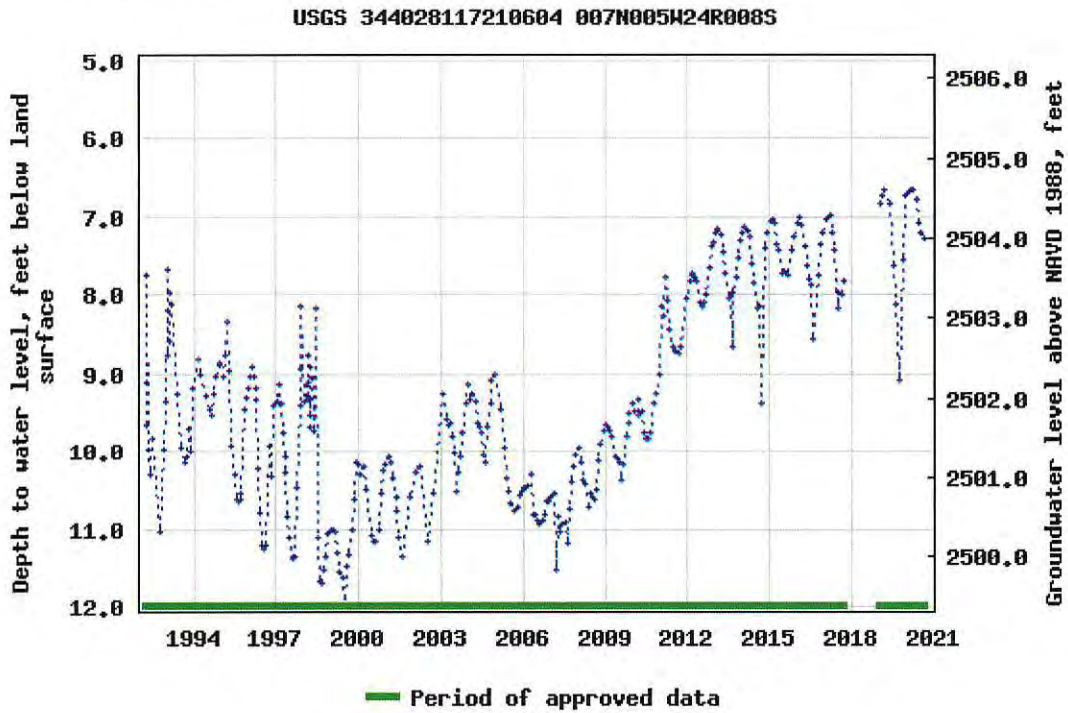
o 07N05W23R03

Land-surface elevation 2,723.5 feet above NAVD88
The depth of the well is 311.7 feet below land surface.
The depth of the hole is 760 feet below land surface.



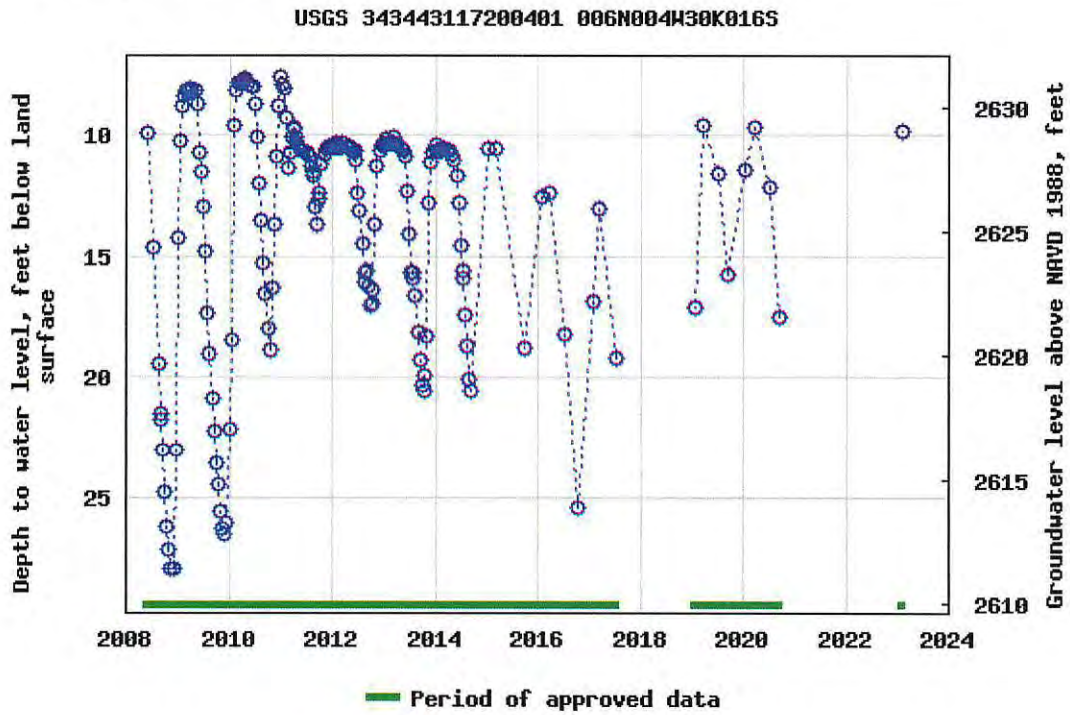
o 07N05W24R08

Land-surface elevation 2,511.3 feet above NAVD88
The depth of the well is 49.2 feet below land surface.
The depth of the hole is 600 feet below land surface.



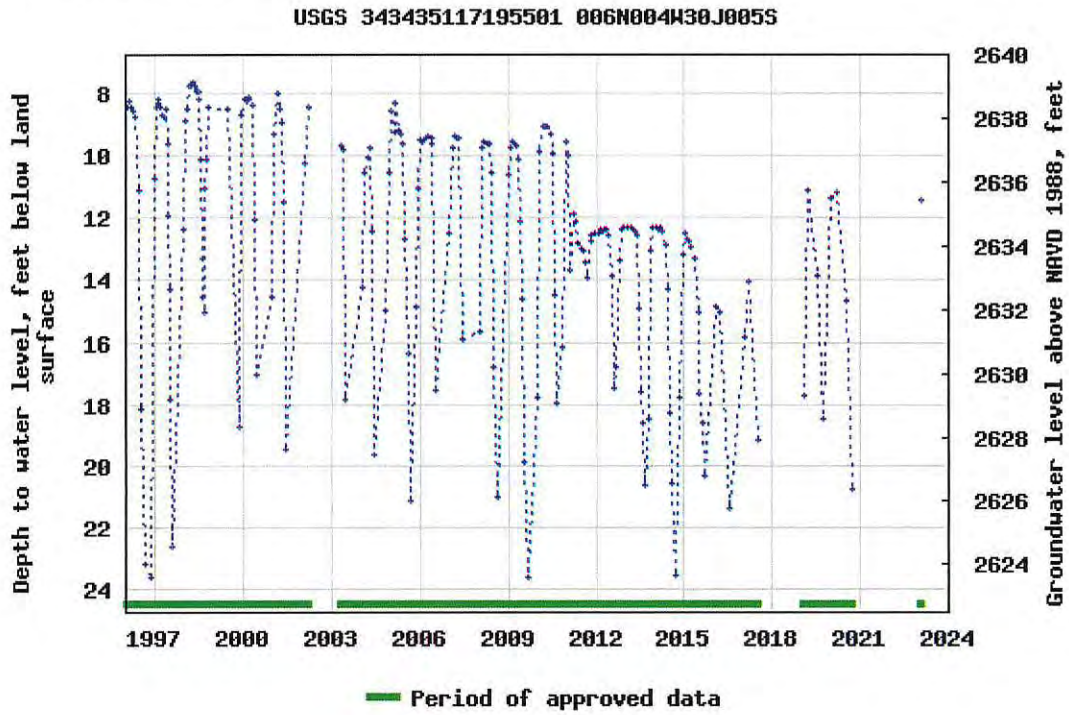
o 06N04W30K14-16

Land-surface elevation 2,639.1 feet above NAVD88
The depth of the well is 31.6 feet below land surface.
The depth of the hole is 32.5 feet below land surface.

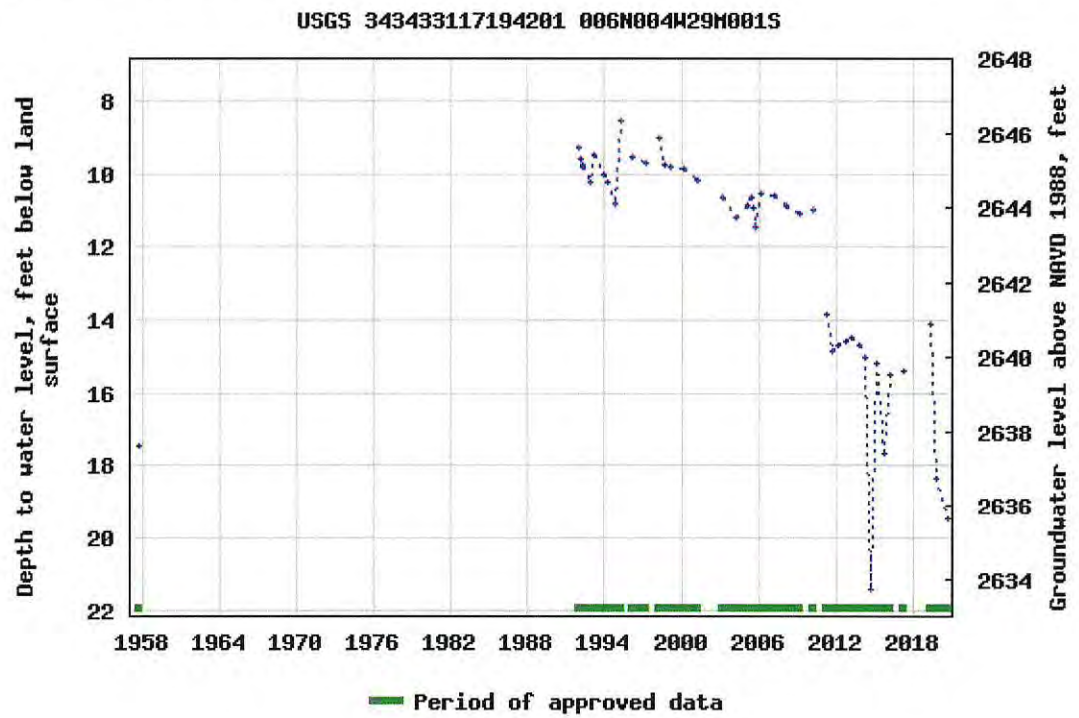


o 06N04W30J05

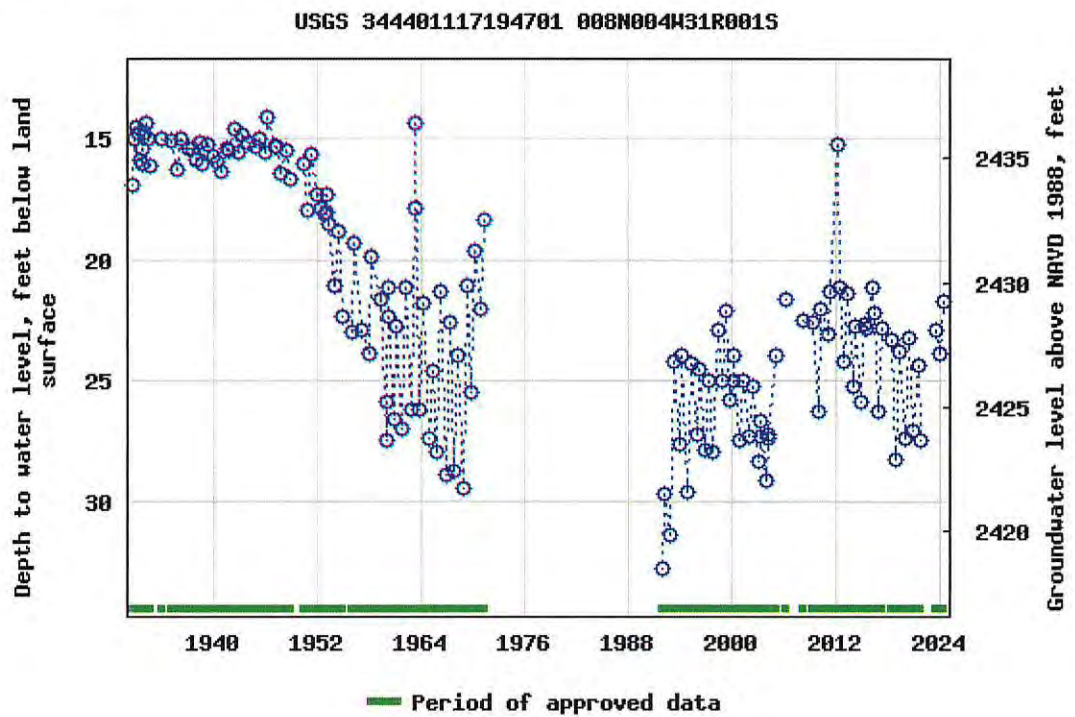
Land-surface elevation 2,647.0 feet above NAVD88
The depth of the well is 23.9 feet below land surface.
The depth of the hole is 24.5 feet below land surface.



- 06N04W29M01
- Land-surface elevation 2,655.0 feet above NAVD88
- The depth of the well is 22.5 feet below land surface.



- Land-surface elevation 2,451 feet above NAVD88
- The depth of the well is 59 feet below land surface.



<https://ca.water.usgs.gov/mojave/mojave-water-data.html>

Exhibit 6

Exhibit 6: Historic Annual Flow Gage Data

Water Year	1909	1910	1911	1920	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957		
West Fork+Deep Creek	95,200	181,000	147,000	34,316	15,471	101,500	22,443	16,087	57,555	24,000	169,119	218,783	40,470	31,065	161,083	25,990	149,934	86,514	70,732	54,515	50,243	13,611	23,022	12,409	2,215	102,659	8,818	54,370	17,904	16,152	22,045		
Upper Narrows																																	
Lower Narrows	90,700	138,000	130,000		22,463	83,950	23,915	23,820	33,806	20,366	150,246	188,037	29,675	27,394	143,332	25,789	127,293	77,429	54,641	43,228	37,206	26,261	22,854	21,628	20,824	66,591	21,810	31,232	22,528	21,691	20,557		
Point of Rocks	80,100	111,000	112,765																														
Wild Crossing																																	
Hodge					2,317	59,510																											
Barstow					0	37,374	0	0	1,184	0	103,879	138,094	550	0	96,003	100	90,974	36,155	22,087	12,577	2,876	0	0	0	0	12,514	0	0	0	0	0	0	
Daggett																																	
Afton				847	1,267	18,850	1,000	1,000	1,000	1,000	54,078	72,200	1,000	1,000	49,900	1,000	47,200	18,200	10,800	8,720	1,000	1,000	1,000	1,000	1,000	2,190	990	953	913	901	752		

Water Year	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	
West Fork+Deep Creek	148,920	18,382	8,761	4,483	67,257	5,645	10,867	21,458	116,269	128,070	24,542	341,495	17,107	20,423	21,647	40,687	18,316	16,847	23,638	11,609	362,635	112,215	306,310	16,094	57,773	262,148	29,248	24,542	45,972	10,816	17,332	10,946	
Upper Narrows																																	
Lower Narrows	98,041	20,341	19,229	18,904	26,756	17,034	17,052	16,797	51,010	74,212	18,745	291,090	23,117	20,416	22,733	34,750	17,737	15,651	20,126	28,235	209,082	72,324	228,918	23,167	35,330	189,173	26,932	21,067	16,941	14,479	16,072	11,511	
Point of Rocks																																	
Wild Crossing										40,977	14	229,063	3,779																				
Hodge													0	660	4,387	4	0	0	10	147,472	31,855	171,580	0	10,136	148,124	1,962	0	3	0	0	0		
Barstow	20,067	4	0	0	734	0	1	6	6,352	7,693	0	146,600	0	0	43	151	1	0	1	2	50,480	5,560	137,264	0	1	92,957	42	0	0	0	8	0	
Daggett																																	
Afton	2,784	596	661	669	563	752	537	566	4,782	1,466	356	72,730	543	360	595	310	436	159	295	898	46,841	1,200	66,700	1,383	1,050	13,321	1,810	682	590	567	912	432	
VWVWA																																	

Water Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
West Fork+Deep Creek	7,783	38,262	75,293	478,516	36,271	198,946	34,750	31,710	169,615	9,288	19,236	17,404	2,454	34,178	36,778	355,251	106,930	5,877	50,243	30,899	102,441	210,095	29,683	9,419	12,083	9,035	10,664	57,483	16,273	90,641	56,469	4,213	19,670	250,275	
Upper Narrows																																			
Lower Narrows	6,905	10,932	24,470	285,388	10,932	113,301	11,004	8,181	83,473	9,412	6,972	5,618	4,554	6,248	5,372	192,575	27,221	4,937	9,122	4,366	19,145	126,405	9,484	7,312	6,784	5,611	4,952	9,629	3,786	27,511	15,421	4,923	3,967	96,577	
Point of Rocks																																			
Wild Crossing																																			
Hodge	0	0	2,128	181,716																															84,415
Barstow	0	0	28	122,785	0	11,077	0	0	10,498	0	0	0	0	0	0	126,187	182	0	10	1	374	23,384	0	0	42	0	0	0	0	169	0	0	0	8,688	
Daggett																																			4,445
Afton	547	738	626	66,605	484	434	631	646	1,289	565	282	350	239	248	392	44,669	186	150	166	112	190	6,407	301	117	1,404	366	159	292	197	86	245	89	1,144	1,028	
VWVWA	6,921	2,300	9,428	2,150	7,389	2,058	4,532	4,222	9,528	8,796	9,065	9,306	9,730	10,377	11,225	12,255	13,566	13,026	13,881	13,664	14,555	14,368	16,724	24,338	12,519	12,542	12,290	13,272	12,810	10,715	13,170	13,146	20,693	14,274	

Incomplete, Estimated

LQW FLOW YEARS: Years where less than 29,000 AF were measured at Lower Narrows

HYPER FLOW YEARS: Years where over 29,000 AF, but less than 100,000 AF were measured at Lower Narrows

STOM YEARS: Years where over 100,000 AF were measured at Lower Narrows

Water Year [YEAR]- October 1, [YEAR-1] to September 30, [YEAR]

Exhibit 7



Surface and Groundwater Flows to the Alto Transition Zone, Centro, and Baja sub-area

Mojave Basin

- Location of Transition Zone

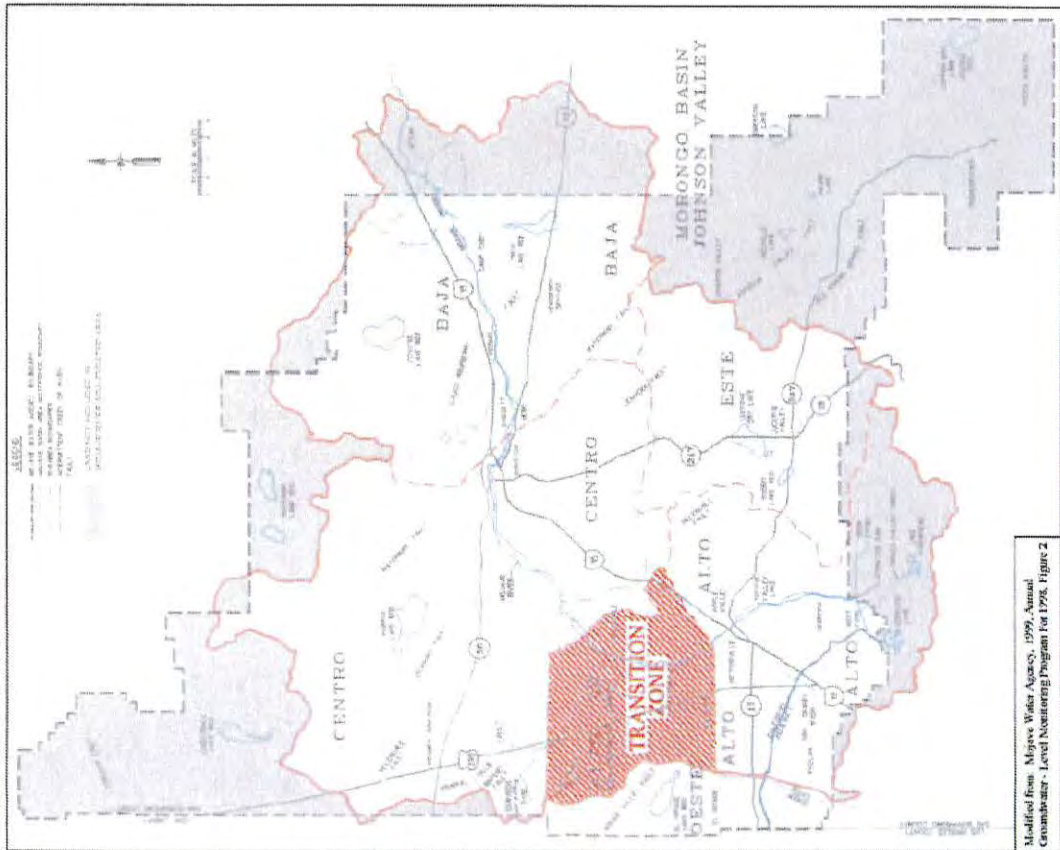
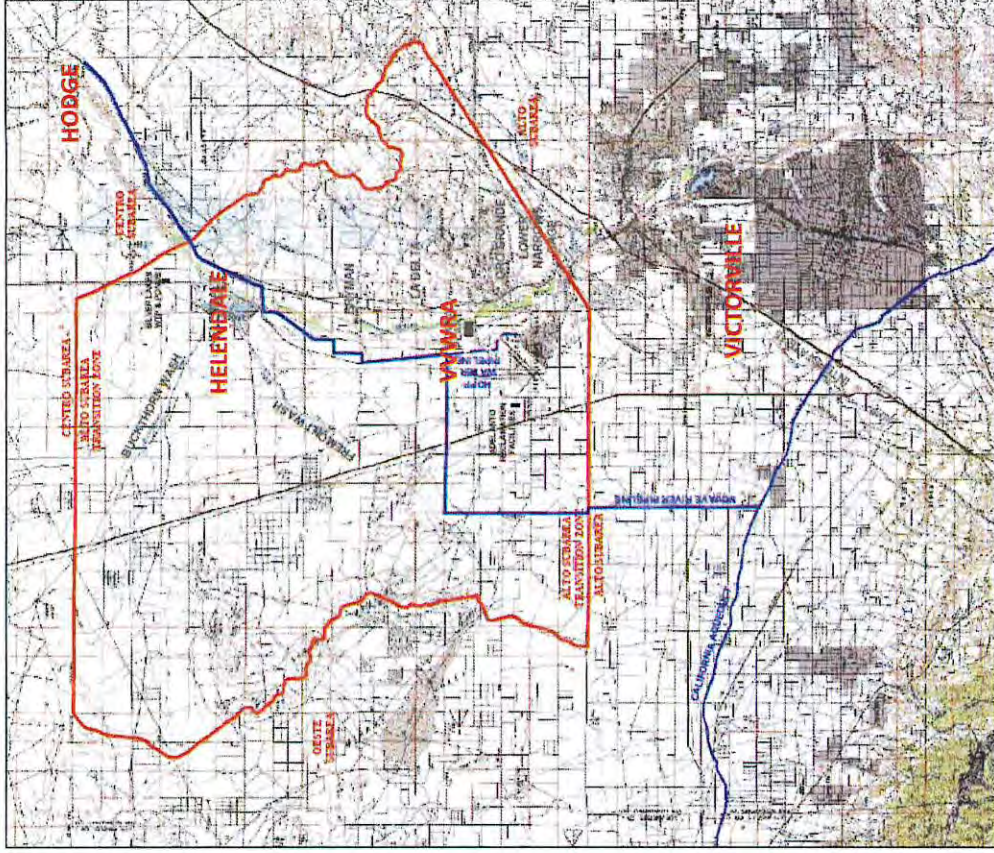


Figure 1
MWA Subarea Location Map

- Transition Zone



Modified From:
 USGS, 1982a, Topographic Map Of San Bernardino
 California, 1:100,000 Scale Metric and
 USGS, 1982b, Topographic Map Of Victorville
 California, 1:100,000 Scale Metric

URS

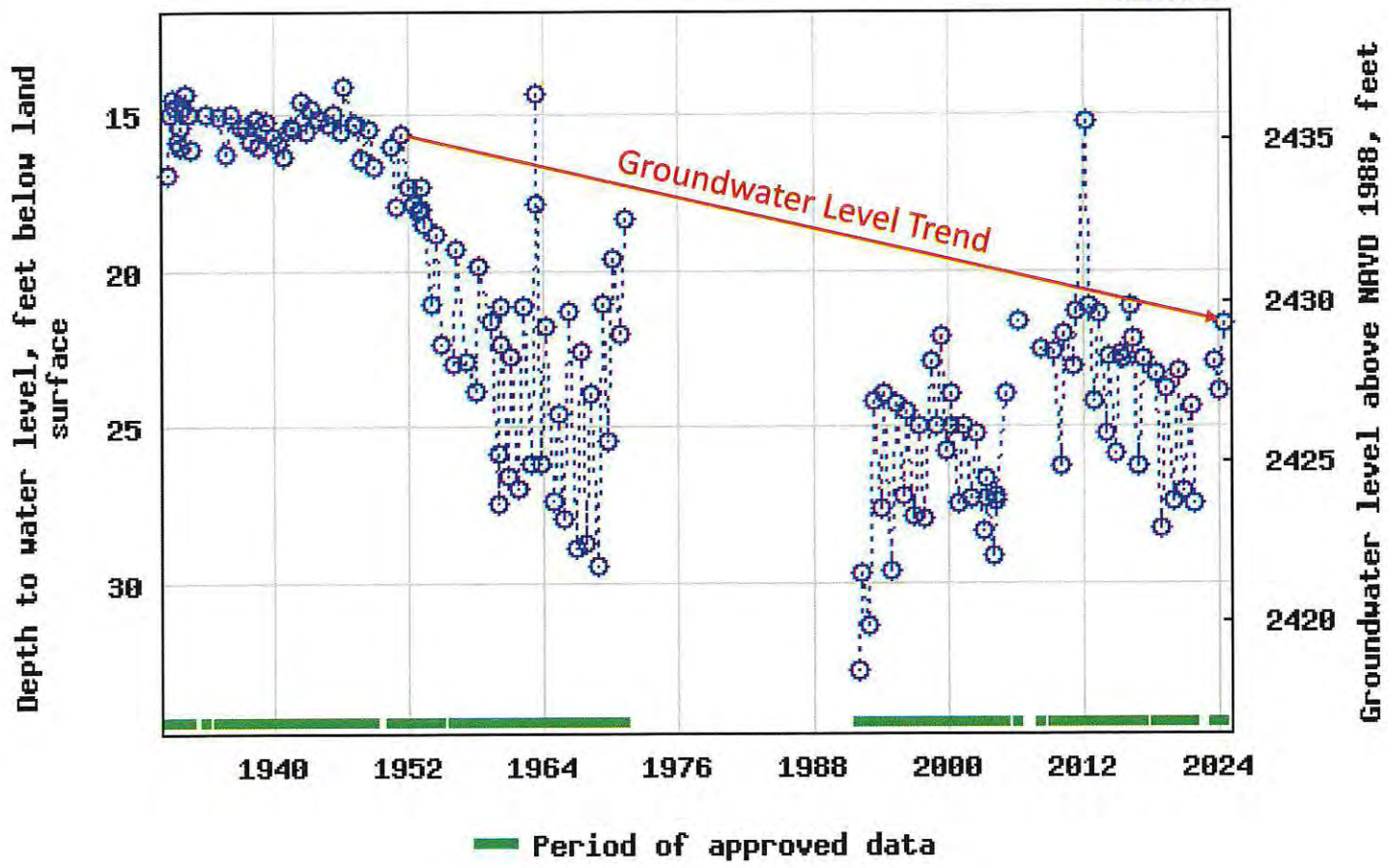
Scale in Miles
 0 1 2 3 4 5 10

Figure 2
 Physiographic Map
 of the Transition Zone
 and Surrounding Area

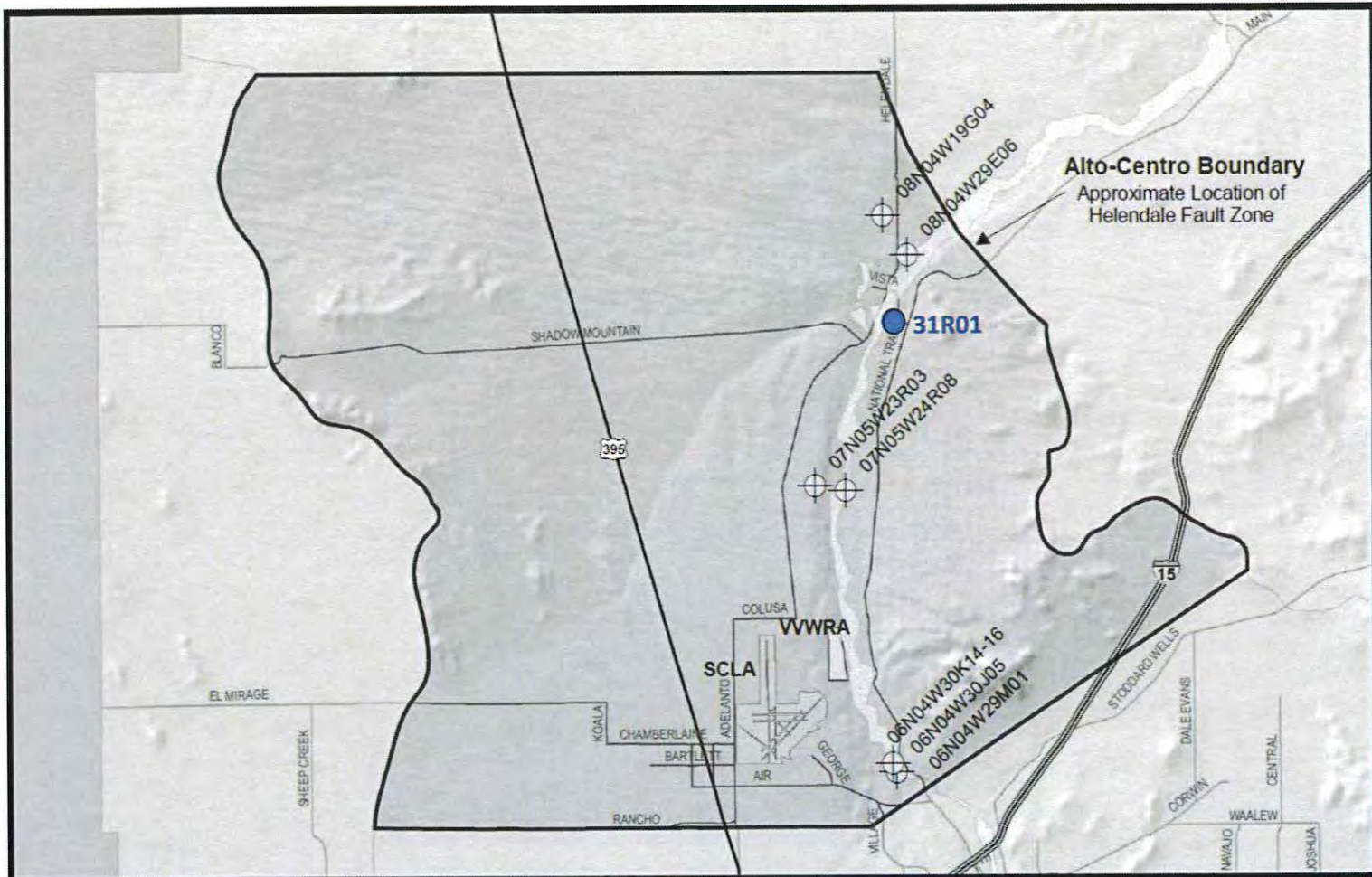
Groundwater Wells

USGS 344401117194701 008N004M31R001S

31R01



- Ground Water Decline since about 1950
- See next slide for location

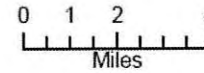


- Location of well 31R01
- Location of Transition Zone Key Wells

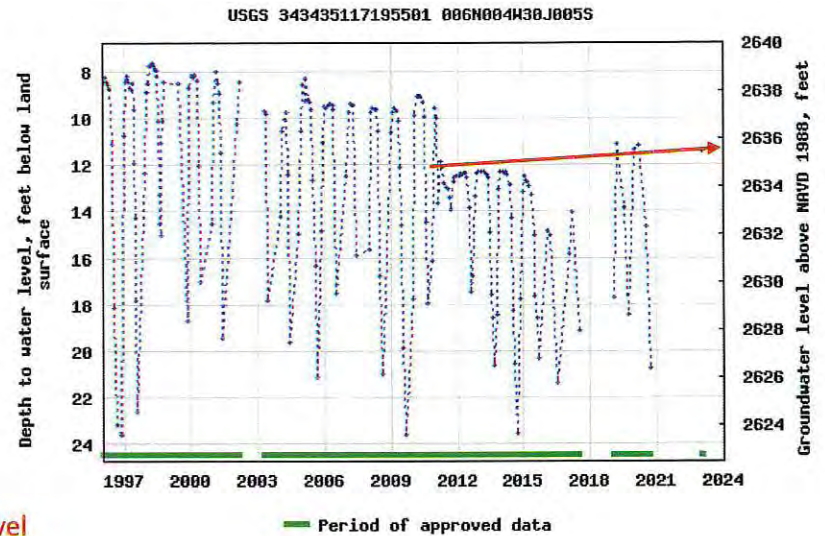
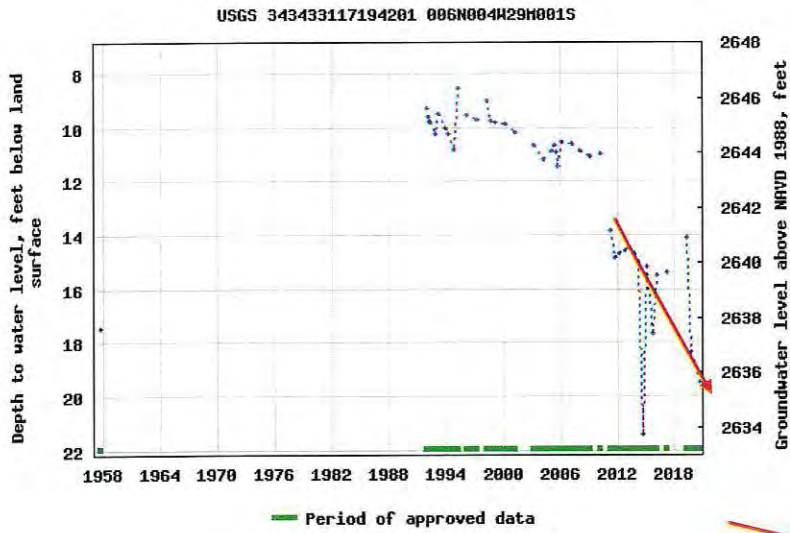
W MOJAVE BASIN AREA
WATERMASTER

Monitoring Wells

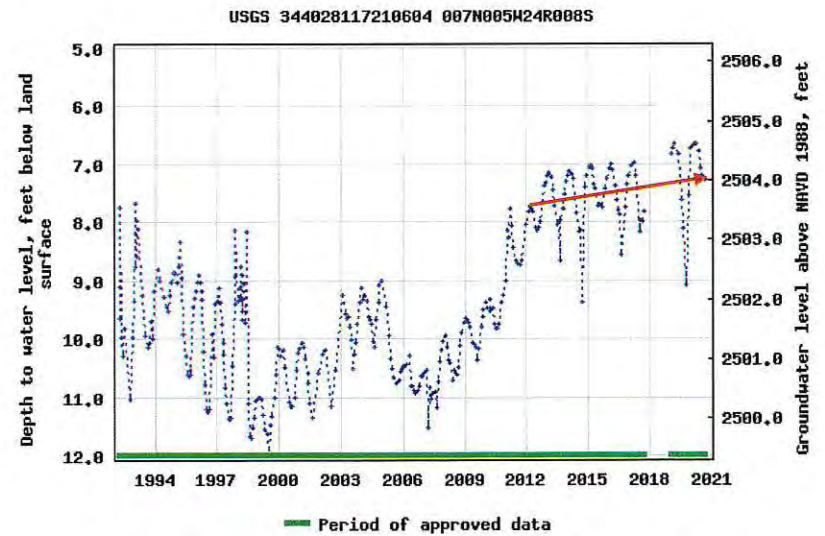
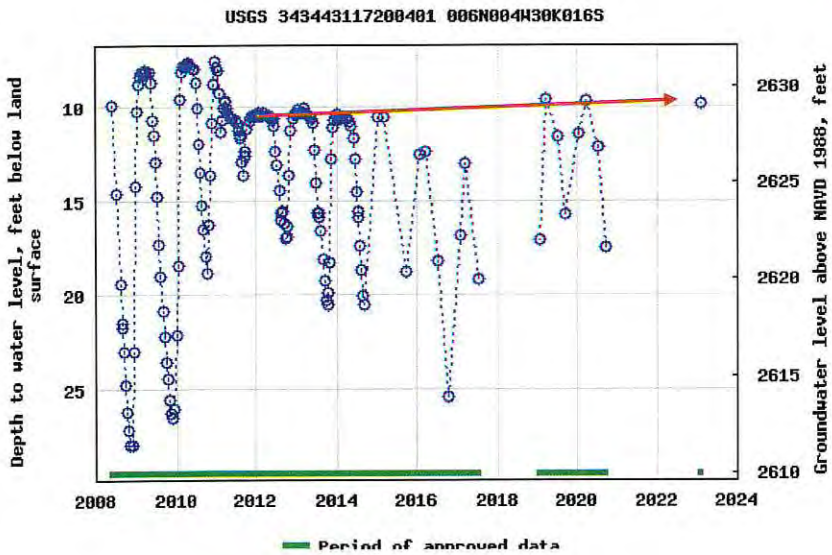
Alto Transition Zone
Location of
Water Level Monitoring Wells

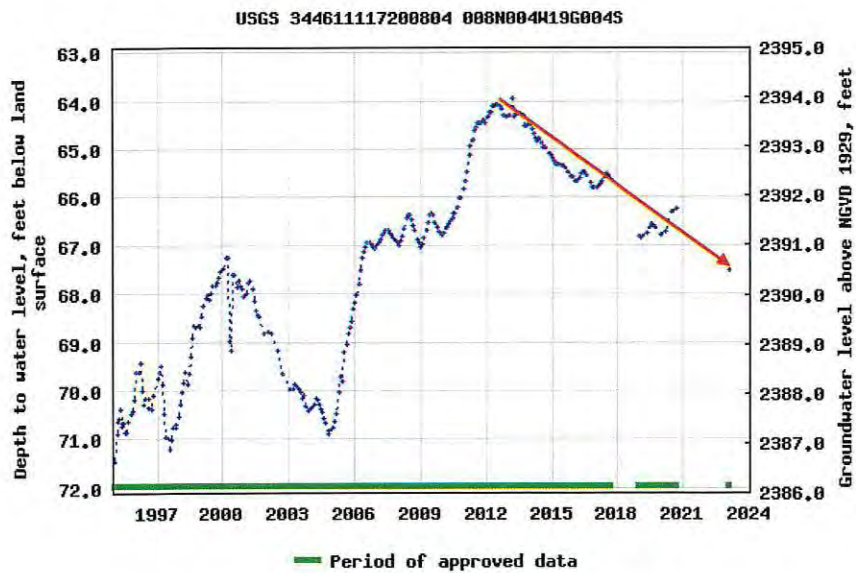
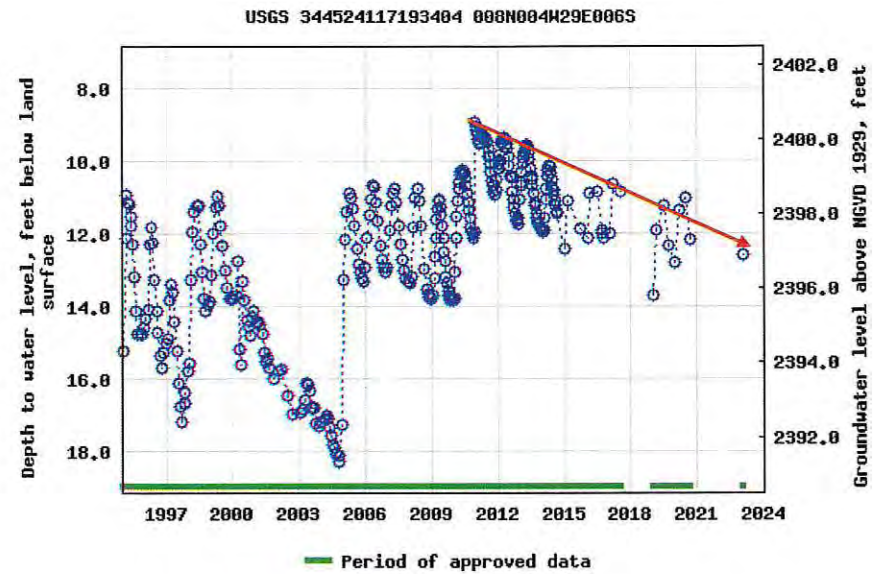
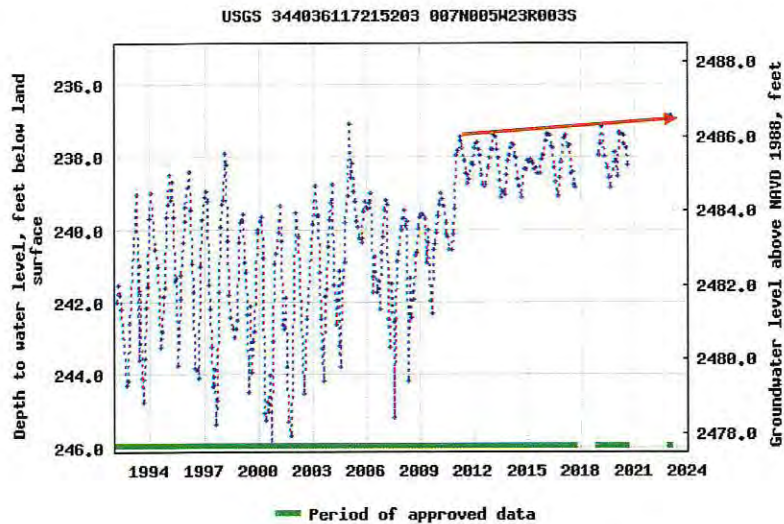


Well ID	Depth (ft, bgs)	Screen Interval (ft, bgs)	Length of Record (years)
08N04W19G04	103.3	80-100	1994-2024
08N04W29E06	41.6	30-40	1994-2024
07N05W23R03	315	295-315	1991-2024
07N05W24R08	50	45-50	1991-2021
06N04W30K16	31.6	26-31	2008-2023
06N04W30J05	23.9	Unknown	1996-2024
06N04W29M01	22.5	Unknown	1991-2021



Groundwater Level Trend Since 2012

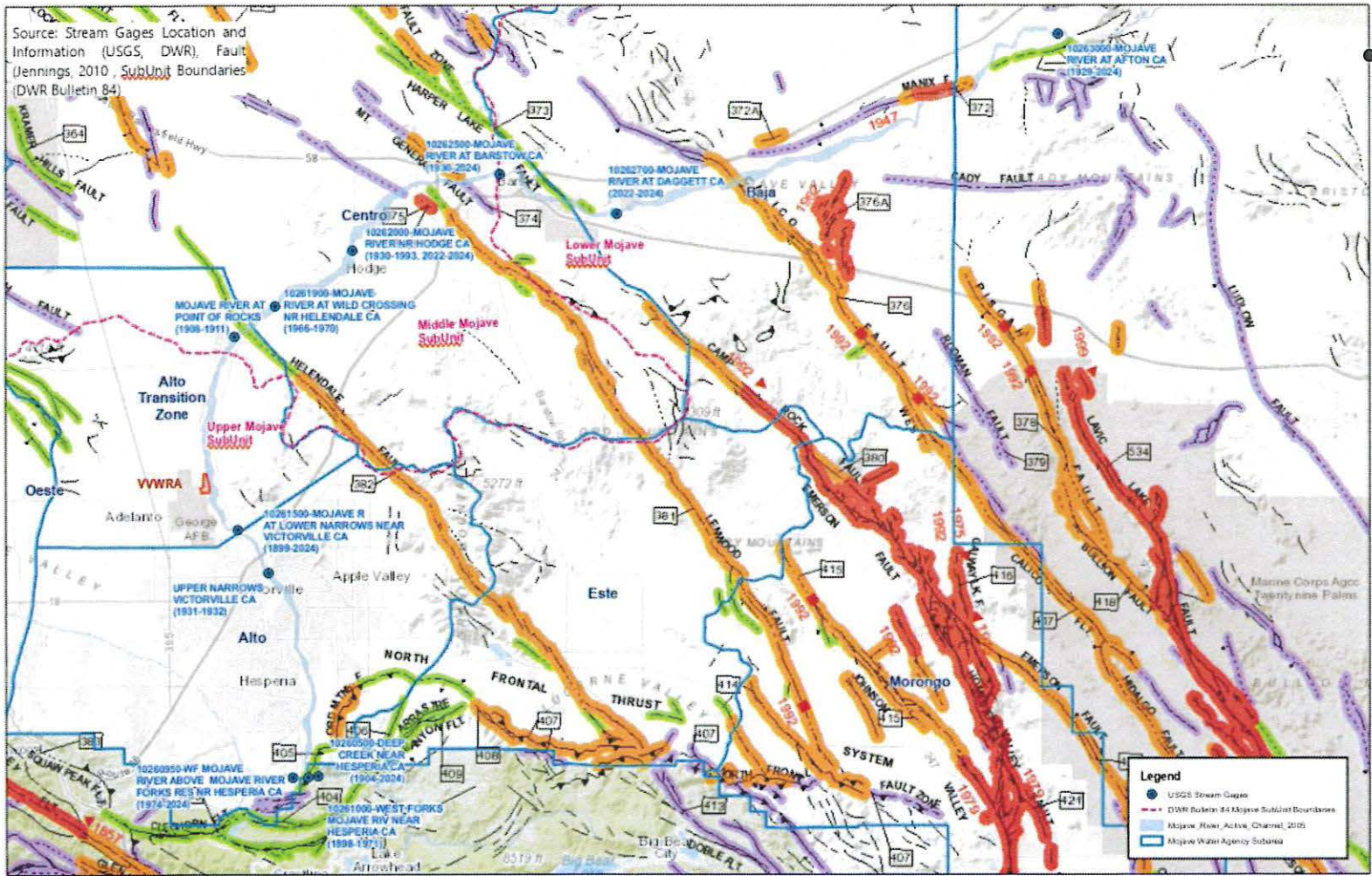




Groundwater Level
Trend Since 2012

- Groundwater level decline in 3 of 7 wells since 2012

Stream Gages



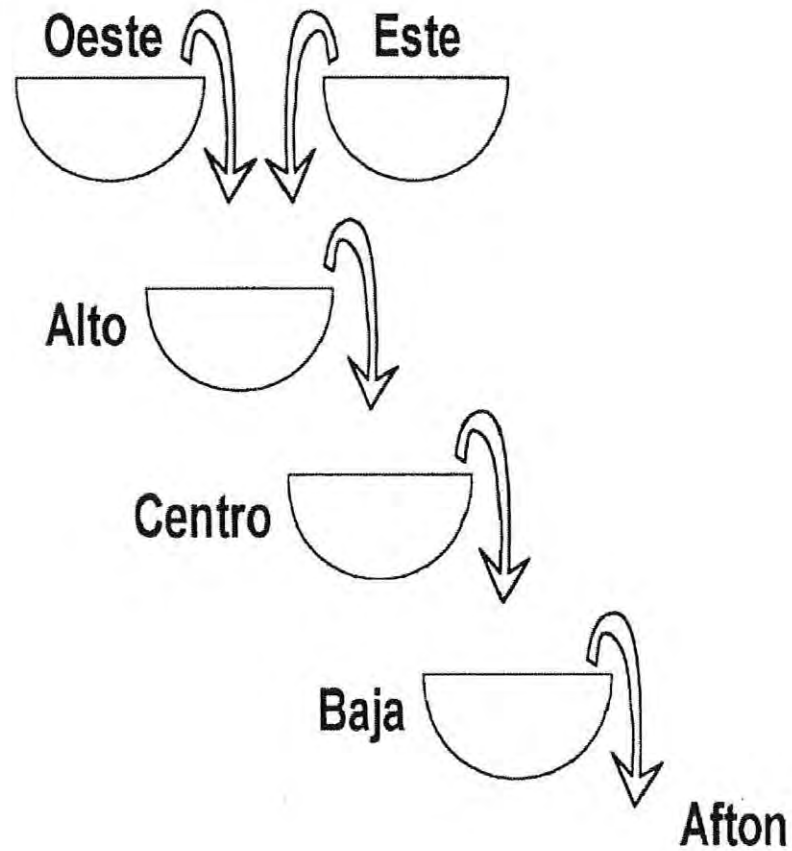
Location of Stream Gages

Exhibit 1: Map Showing Alto, Alto Transition Zone, Centro, and Baja Sub-areas

Subarea Obligation

Proposed Judgement

Subarea Obligation

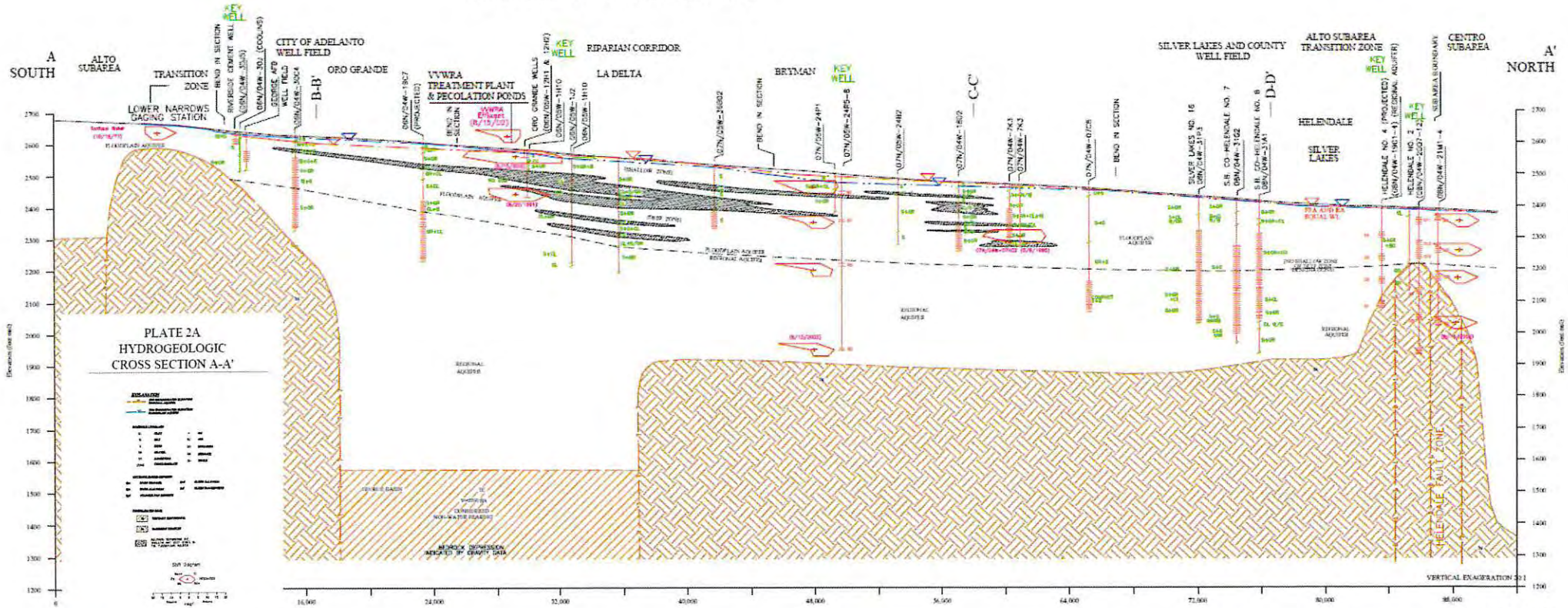


Alto – Alto TZ
Constriction



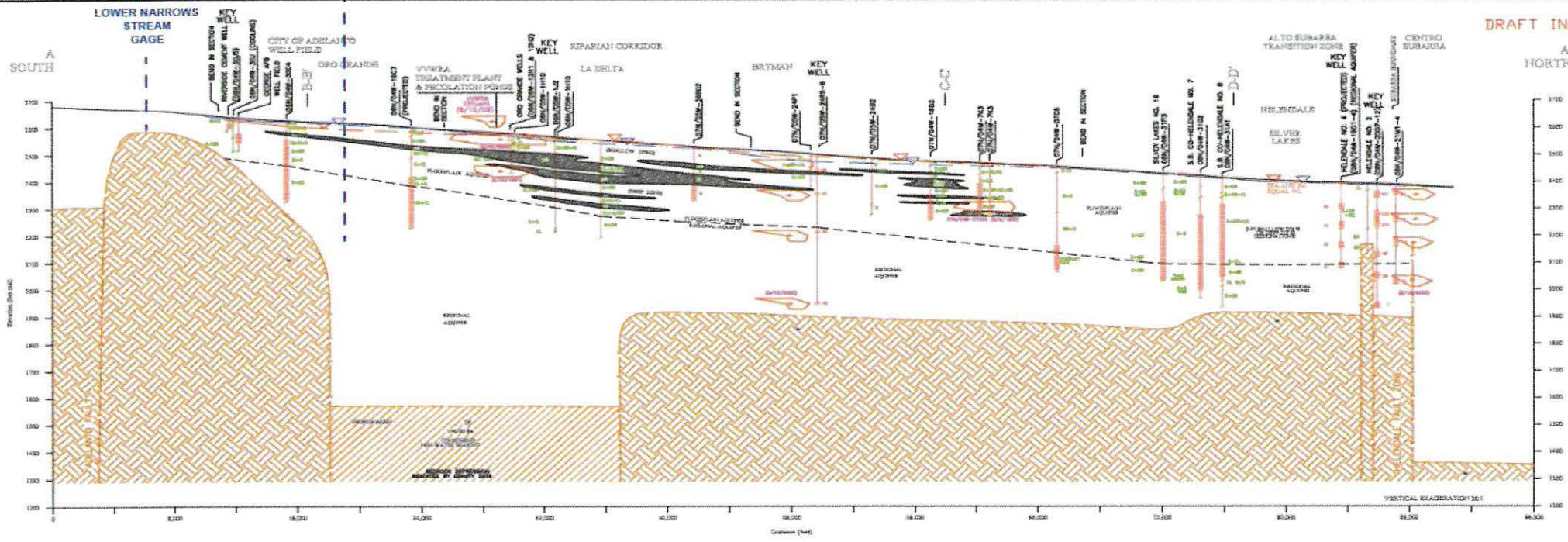
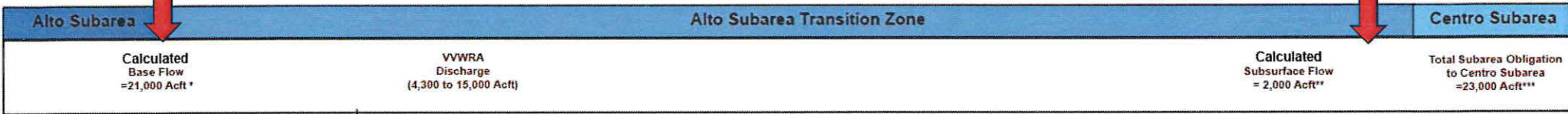
- Transition Zone Subsurface Flow
- Groundwater levels must be higher than construction for groundwater to flow into Centro sub-area

Alto TZ- Centro
Constriction



Alto – Alto TZ
Constriction

Alto TZ- Centro
Constriction



DRAFT IN
A NORTH

- Published subsurface flows between basins

Boundary	Source	Year	Subsurface flow (AFY)	Location
TZ-Centro	DWR	1967	2,000	At 1967 Subunit boundary
TZ-Centro	Judgement	1996	2,000	At 1967 Subunit boundary*
TZ-Centro	USGS 2001	2001	5,000-6,000	At Helendale Fault
TZ-Centro	USGS 2001	2000	1,566	At Helendale Fault
TZ-Centro	URS	2002	4,600	At Helendale Fault
TZ-Centro	Laton	2004	1,100-2,220	At Helendale Fault
Alto-TZ	Webb	2000	4,590	At Lower Narrows
Alto-TZ	URS	2002	4,900	At Lower Narrows

Conclusion

- Baseflow is that portion of the total surface flow measured annually, which remains after subtracting storm flow. Storm flow does not count towards any baseflow obligation to any sub-area.
- The calculated water obligation to the Centro sub-area is not based on sound science. There is limited to no data at the compliance boundary (baseflow or subsurface flow).
- MWA/Watermaster cannot adequately provide an estimate of water moving from Alto to Centro sub-areas given the lack of data; specifically, the amount of water flowing out of Alto TZ and into the Centro sub-area and to a lesser degree from Centro to Baja sub-area.
- MWA/Watermaster has failed to meet their duty by not adequately installing stream gages and monitoring wells to collect boundary-specific data.
- Baseline conditions used in the original Judgment do not apply to current conditions. The climate has been and is evolving. The change in stresses to existing water resource conditions and the original deficiencies from previous studies (from as far back as the last century) all need to be re-visited with actual data.
- The 21,000 AFY of baseflow obligation to the Alto TZ (which is part of the Alto sub-area) and the subsequent obligation of baseflow to the next downstream sub-area (Centro) is essentially non-existent.
- Simple aerial imagery analysis shows that the obligated baseflow is not making its way to the Centro sub-area and, therefore, not making it to the Centro-Baja sub-area boundary.
- It is critical that the historical stream gages closer to the compliance boundary be re-established between the Alto and Centro sub-areas.
- MWA/Watermaster has failed to meet their duty by not adequately measuring or monitoring water flow between sub-areas. As such, there has been calculable harm done to downstream sub-areas.
- Based on a loss in storage in the Centro sub-area, the Baja sub-area has seen a realized loss of 92,750 AF for the 25 years since 1993-94 water year or 3,710 AFY.

Appendices

Appendix A

earthforensics, inc.



W. RICHARD LATON, Ph.D.

12532 VISTA PANORAMA
NORTH TUSTIN, CA 92705
714-296-4055
wlaton@earthforensics.com

VITAE

EDUCATION

- Ph.D. (1997), Geology with an emphasis in Hydrogeology, Western Michigan University
Groundwater – Kalamazoo River Interaction near the Parchment City Well Field, Parchment, Michigan.
- M.S. (1992), Environmental Earth Science (Coastal Geomorphology), Western Michigan University
Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping.
- B.A. (1989), Earth Science (Oceanography), Saint Cloud State University, Minnesota
Density Flow Analysis of Turbidity Currents.

PROFESSIONAL SUMMARY

Dr. Laton is an expert in the fields of geology/hydrology/hydrogeology. He is currently an Associate Professor of Hydrogeology in the Department of Geological Sciences, California State University, Fullerton, and the prestigious 2014 Ross Oliver Award winner. This continuation of a career includes years of teaching, consulting, litigation support, and management experience. Dr. Laton possesses extensive knowledge in the areas of geology, hydrogeology, fluvial geomorphology (including erosion and sediment transport), meteorology/climatology (including rainfall, RADAR analysis, and wind), hydrology and surface water, wetlands, coastal monitoring/geomorphology, natural hazards (such as land/mudslides, flooding, and earthquakes), soil and water contamination (fate and transport), CEQA, environmental field sampling techniques and well hydraulics-well design as well as environmental remote sensing/GIS. His classes at the university encompass topics including; water quality, environmental sampling, groundwater modeling, well hydraulics, oceanography, and basic geology. He enjoys introducing students to applied research and is the faculty advisor to many upper-level students. He has also acted as a consultant for numerous companies and agencies that need input on the above subjects and natural hazard assessment and mapping.

CERTIFICATIONS

California Geologist	(PG-7098)	California Hydrogeologist	(CHg-958)
Alaska Geologist	(PG-673)	Oregon Geologist	(G2153)
Arizona Geologist	(PG-42253)	Pennsylvania Geologist	(PG-5095)
Florida Geologist	(PG-2618)	Texas Geologist	(PG-10018)
Illinois Geologist	(196.001370)	Washington Geologist	(PG-2517)
Indiana Geologist	(LPG-2191)	Washington Hydrogeologist	(CHg-2517)
Minnesota Geologist	(PG-44868)		
New York Geologist	(PG-001222)	AIPG-Certified Geologist	(CPG-10544)
North Carolina Geologist	(PG-2614)	European Geologist	(N-1128)

SELECTED CONSULTING, RESEARCH, AND EMPLOYMENT EXPERIENCE

Professional Profile

2010 - Present, President of *Earth Forensics Inc.*

1995 - 2010, Partner (Owner Operator) with *Environmental Science & Planning, LLC.*

1998 - 2001 & 2007 - 2012, Senior Consultant with *Earth Consultants International.*

2001 - 2007, Consultant to *Hromadka & Associates.*

1996 - 1998, Senior Hydrogeologist with *SimulProbe Technologies.*

2010 – Present. *Earth Forensics, Inc.* President (www.earthforensics.com)

Project experience includes management, expert testimony, fieldwork, oversight, and training. Clients have included the State of California, various cities, private firms, law firms, and other consulting companies.

2024

- Torrance, CA. Retained to provide expert opinion associated with groundwater, soil, and soil vapor contamination (PCE, TCE, and 1,1 DCE) (Defense: City of Torrance v. Hi-Shear Corp (Case No.: 2:17-cv-07732) (cross-complaint).
- Colorado. Retained to aid in the Marshall Fire, water and meteorological issues, and GIS.
- Rolling Hills Estates, CA. Retained as an expert on groundwater and surface water impacts on a landslide.
- Encinitas, CA. Retained as an expert on flood damage.
- Los Angeles, CA. Retained as an expert on remediation, groundwater, soil, and soil vapor contamination (LA County Metro Transportation v California Drop Forge, et al. Case No. 2:23-cv01728-MWF-KS).
- Vernon, CA. Retained as an expert on groundwater and vapor pathways associated with VOCs, SVOCs, and metals (Superfund).
- Ypsilanti, MI. Retained to evaluate remedial efforts related to the factory.
- Palos Verde, CA. Retained to assess surface water and groundwater impacts on landslides.
- Hicksville, NY. Retained to evaluate groundwater model and fate and transport of contaminants.
- Port of Morrow, OR. Retained to evaluate nitrate contamination (Plaintiff, Pearson et al., v Port of Morrow, et al. Case No.).

2023

- El Dorado County, CA. Hired and retained to evaluate rainfall runoff and slope stability (Plaintiff, Poipao, et al., v County of El Dorado, Case No. 2:23-cv-01265-CKD)
- Corbett, OR. Hired and retained to evaluate water well design and standard of care (Defense, Corbett Water District v SCS Engineers, et al., Case No.)
- Wausau, WI. Hired and retained to evaluate the fate and transport of PFAS/PFOS.
- Orange County, CA. Hired and retained to discuss groundwater flow (Plaintiff, Hadipour, et al., v Moulton Niguel Water District, Case No. 30-2020-01176360-CU-EI-CJC)
- Endicott, NY. Retained to evaluate the fate and transport of contamination.
- Oklahoma. Retained to evaluate PFAS/PFOS contamination state-wide.
- Sarasota, CA. Retained as an expert on meteorology associated with flooding. Deposition and Trial Testimony (Plaintiff, Hedayati v. Bhatnagar, Case No. 19CV357264).
- Maui, HI. Retained as an expert on GIS and meteorology associated with wildfires.
- New Cambria, KS. Retained as an expert on hydrogeology/geology/sampling and fate and transport (Defense, Grit v Koch Remediation & Environmental Services, et al.).
- Coronado, CA. Retained as an expert on surface water flow.
- Pacific Palisades, CA. Retained as an expert on groundwater (Plaintiff, Nash v. Eteo Homes, et al., Case No. 20SMCV01211).

- Los Angeles, CA. Retained as an expert on water sources and landslides.
- Claremont, CA. Hired to evaluate the source of high groundwater for multiple residential homes.
- San Deigo, CA. Retained as an expert on water damage (Case No. 37-2023-00011116-CU-OR-CTL).
- San Deigo, CA. Retained as an expert on flood damage.
- IL, IN, NM, FL, and LA. Hired to evaluate the potential groundwater impacts associated with CO₂ Sequestration.
- Oceanside, CA. Hired to evaluate water issues surrounding a landslide.
- Dalton, NH. Hired by the City to review landfill permits and provide a written report.
- Orange County, CA. Hired to develop a dewatering plan for a landslide on an active landfill.
- Vernon, CA. Retained as an expert on groundwater and vapor pathways associated with VOCs, SVOCs, and metals. Expert Report, Rebuttal Report, Deposition and Trial (Plaintiffs, CA DTSC v NL Industries, Inc, et al., Case No. 2:20-cv-11293-SVW-JPRx).

2022

- Orange County, CA. Hired to evaluate data gaps in the environmental analysis of landfill.
- Elysian, TX. Hired to evaluate the potential groundwater impacts associated with CO₂ Sequestration.
- Inglewood, CA. Retained as an expert on non-karst sinkholes. (Plaintiff, Maiden v City of Inglewood, et al., Case No. 19STCV20008)
- Southern California. Retained as a hydrogeology/hydrology/meteorology expert for various wildfires (Plaintiff).
- Riverside, CA. Retained as an expert on surface water flow associated with flood damages (Defense, HSU et al., v County of Riverside, Case No. CVR12101209).
- California. Retained as an expert on hydrogeology/hydrology/geology and meteorology associated with the Thomas Fire.
- Las Vegas, NV. Retained as an expert on water well design, drilling, development, and completion (Defense).
- Bakersfield, CA. Retained in association with oil field issues and leaking wells.
- Los Angeles County, CA. Retained as an expert on hydrogeology/hydrology and meteorology (Plaintiff, Werner, et al., v Azirian et al., Case No. 20smv01176).
- Union, IL. Retained as an expert on contamination from TCE and PCE in groundwater, soil, and soil vapor (Plaintiff, Harper v TechAlloy Company, Inc., et al., Case No. 19-LA-307).
- Encinitas, CA. Retained as an expert in fluvial geomorphology (Defense, Trujillo et al., v City of Encinitas et al., Case No. 37-2021-00015834-cu-or-nc).
- Tampa, FL. Retained as an expert on Lead in the environment (Plaintiff, Brown v Gopher Resources, LLC et al., Case No.).
- Newton, MA. Retained as an expert in mapping and GIS.
- Los Angeles County, CA. Retained as an expert on hydrogeology/hydrology and meteorology (Defense, Bowmont Holding LLC, et al., v CAS Construction et al., Case No. 21SMCV01401).
- Riverside County. Retained as an expert on hydrology (Defense).
- Franklin, IN. Retained as an expert on groundwater and vapor pathways associated with VOCs Expert Report, Deposition (Plaintiff, Denny, et al., v Amphenol Corp, et al., Case No. 1:19CV-04757-JRS-DLP).
- Encinitas, CA. Retained as an expert on groundwater-surface water interaction in bluff areas (Defense, Davis et al., v City of Encinitas et al., Case No. 37-2020-00030315-cu-np-nc).
- Illinois and Indiana. Hired to evaluate the potential groundwater impacts associated with CO₂ Sequestration.
- Maryland. Retained as an expert on impacted soil classification and potential for reuse (Defense, MCM Management Corp v DXI Construction, Case No. C-03-CV-21-003006).

- New Jersey and Pennsylvania. Retained as an expert on AFFF contamination within the public water supply (Plaintiff).
- Laguna Beach, CA. Retained as an expert on the water, including irrigation and construction moisture issues. Declaration, Mediation (Plaintiff, Woods Cove v Michael Liikala, Case No. 20-5685-DRC).

2021

- Santa Barbara County, CA. Retained as an expert on hydrogeology and water resource sustainability. Expert Report and Deposition (Plaintiff, Goleta Water District v Slippery Rock Ranch, LLC, Case No. 1487005).
- Pleasanton, CA. Retained as an expert in dry-cleaning operations and PCE/TCE contamination (Defense, Charles H Stoll v Timothy Ewing, et al., Case No. 3:17-cv-02226-JSC).
- Los Angeles County, CA. Cogswell Dam Review and Development of Dewatering Program.
- Santa Barbara, CA. Hydrogeological Evaluation for a Potential Cannabis Project.
- Vista, CA. Retained as an expert on wetlands and surface water flow (Defense, Goebel v City of Vista and State of California, et al., Case No. 37-2018-00058162-CU-PO-NC).
- Lake Elsinore, CA. Retained as an expert on surface water and debris flow (Defense, Gomes, et al., v County of Riverside, et al., Case No. RIC2003297).
- Bell Gardens, CA. Retained as an expert on remediation (Defense, Bell Gardens Avenue, LLC, et al., v 8000 Bell Gardens, LLC, et al., Case No. 20STCV26362).
- Canoga Park, CA. Retained as an expert on the fate, transport, and cleanup of TCE/PCE contamination. Declaration (Plaintiffs, Behar, et al., v Northrup Grumman et al., Case No 21-cv).
- Midwest City, OK. Retained as an expert associated with dry-cleaner operations and potential contamination. Declaration (Plaintiff, Weingarten Realty Investors, et al., v Brite Cleaners, Inc., et al., Case No. 5:18-cv-971-JD).
- Encinitas, CA. Retained as an expert in fluvial geomorphology. Declaration (Defense, Preciado v City of Encinitas, Case No. 37-2020-00037766-CU-EL-CTL).
- Merrimack, NH. Retained to review PFAS/PFOS contamination (Plaintiffs).
- East Chicago, IN. Retained to review and evaluate lead contamination. Expert Report (Plaintiffs, Alvarez, et al., v City of East Chicago et al. Case No. 2:16-cv-00525-PPS-PRC).
- Blades, DE. Retained to review PFAS/PFOS contamination (Plaintiffs).
- San Diego, CO. Retained as an expert in fluvial geomorphology. Declaration and Expert Report (Defense, Lodge v Barbanell, Case No. A265558-58).
- Encinitas, CA. Retained as an expert in fluvial geomorphology. Declaration (Defense, Gilligan v City of Encinitas, Case No. 37-2020-00038879-CU-EI-CTL).

2020

- Inglewood, CA. Retained as an expert in soil contamination. Expert Report (Plaintiff, TKG Management, Inc., et al., v Chubb Custom Insurance Company, et al., Case No. 2:19-cv-10986-AB-AS).
- Marinette, WI. Retained to review PFAS/PFOS contamination (Plaintiffs).
- Malibu, CA. Hired to review and report on multiple single-family homes' groundwater resources.
- Blythe, CA. Retained as an expert in surface water hydrology and canal flow (Plaintiff, Presley v Palo Verde Irrigation District).
- Hesperia, CA. Hired to review City water resources.
- Torrance, CA. Hired to develop a Conceptual Site Model for a former manufacturing facility.
- Michigan. Retained as an expert on the dam failure and resulting flooding (Plaintiffs).
- Los Angeles, CA. Retained as an expert in environmental consulting. Mediation (Defense, Madrone et al., v Odic Environmental, Case No. 19STCV27986).
- Central CA. Retained as an expert in hydrogeology and water resources.

- Orange County, CA. Hired to evaluate multiple historical dry-cleaning operations, including developing remedial options for cleanup.
- Chula Vista, CA. Retained as an expert associated with hydrology issues (Defense, Ludwig v. City of Chula Vista, Case No. 37-2019-00034737-CU-EI-CTL).
- Laguna Niguel, CA. Hired to evaluate groundwater conditions associated with a landslide.

2019

- Newport Beach, CA. Hired to evaluate the risk posed by contaminated soil, soil vapor, and groundwater in the residential neighborhoods.
- Los Angeles, CA. Hired to evaluate the contaminated soil conditions along a freeway expansion.
- San Diego, CA. Hired to evaluate the hydrogeological conditions of the Mission Valley Project.
- Santa Barbara, CA. Retained as an expert associated with dry-cleaner operations and potential contamination. Expert Reports (Defense, Donald George, et al., v L&R Dry Cleaning, Case No. 5:14-cv-01872-DSF(SHx)).
- Apple Valley, CA. Retained as an expert on hydrogeology and water resources (Plaintiffs).
- Cannonsville, NY. Retained as an expert on hydrogeology associated with an earthen dam. Expert Reports (Plaintiff, City of New York v Gomez et al., Index No. 451296/2018).
- Santa Paula, CA. Retained as an expert on hydrometeorological conditions related to the Montecito-Thomas Fire (Defense).
- La Jolla, CA. Retained as an expert associated with the flooding of a single-family residence (Plaintiff).
- Rancho Palos Verdes, CA. Hired to conduct a site assessment, remedial investigation, and work plan.

2018

- Bethpage, Long Island, NY. Retained as an expert associated with groundwater and soil gas contamination. Expert Report and Deposition (Plaintiff, Romano, et al., v Northrop Grumman et al., Case No. 16-cv-5760).
- San Bernardino County, CA. Hired to conduct a Phase 1 and hydrogeological assessment.
- Glen Ivy, CA. Retained as an expert associated with flood damages. (Defense, Glen Ivy Investments Inc., et al., v Shea Homes, Inc., et al., Case No: RIC 1313300).
- Norwalk, CA. Hired to develop CSM and work plan to evaluate historical gas and dry-cleaning facility.
- Merced, CA. Retained as an expert on hydrogeology, groundwater seepage, and surface water. Deposition (Plaintiff, Thorp, et al., v Merced Irrigation District et al.).
- Portland, OR. Retained as an expert associated with a landslide (Defense).
- Los Osos, CA. Hired to develop an RAP associated with BTEX contamination.
- Newberry Springs, CA. Hired to evaluate water budget and any shortcomings in the Mojave Judgement. Letter Reports and Multiple Declaration (Plaintiff, City of Barstow, et al., v City of Adelanto, et al., Case No: CIV 208568).
- New Mexico. Retained as an expert associated with field drilling operations and well design. Declaration (Defense).
- Houston, TX. Retained as an expert associated with flood damages from Hurricane Harvey (hydrology and meteorology) (Plaintiffs).
- Huntington Beach, CA. Retained as an expert on PCE contamination, fate, and transport associated with a dry-cleaner. Deposition (Defense, Chan Property v Misak Olgun et al., Case No 30-2018-00984600-CU-PO-CJC).
- Torrance, CA. Retained as an expert on the fate and transport of contamination emanating from refinery operations. Declaration and Deposition (Plaintiff, Goldstein v Exxon Mobil, et al., Case No 2:17-cv-02477-DSF (SKx)).
- Malibu, CA. Hired to assess potential single-residence groundwater well.

- Los Angeles, CA. Hired to perform Phase II site assessment at former dry-cleaners.
- Santa Barbara, CA. Retained as an expert on PCE contamination, fate, and transport (Plaintiff).
- Whittier, CA. Hired to review Phase II associated with both residential and commercial property.

2017

- San Diego, CA. Retained as an expert in hydrology and meteorology (Defense, Anderson, et al., v Cortez et al., Case No 37-2016-00004134-CU-BC-CTL).
- Roxboro and Mayo, NC. Retained as an expert in hydrology, hydrogeology, and geology. Expert Reports and Deposition (Defense, Roanoke River Basin Association v Duke Energy Progress, LLC, Case No 1:16-cv-607 and No 1:17-cv-452).
- Inglewood, CA. Retained to review soil contaminated with arsenic and potential sources (Plaintiff).
- Torrance, CA. Hired to review the refinery's soil, water, and soil gas contaminant history.
- Bakersfield, CA. Hired to review water quality on the bottled water plant.
- Santa Barbara, CA. Hired to review contaminant history of former dry-cleaner facility.
- Glendale, CA. Hired to perform background research on dry-cleaner facility.
- San Jose, CA. Hired to perform Phase II site investigation.
- Bishop, CA. Retained as an expert on hydrology and hydrogeology concerning the Round Fire (Defense).
- Thousand Palms, CA. Retained as an expert in hydrology and geomorphology (Defense, Hernandez v Huth, et al., Case No PSC 1501365).
- Beverly Shores, IN. Retained as an expert on well drilling, abandonment, and geothermal wells. Expert Report and Deposition (Defense, Salomon, et al., v Mark Scott Construction, et al., Case No 2:15-cv-464).
- Moraga, CA. Hired to review Phase II Soil Vapor Site Investigation.
- Long Beach, CA. Hired to review Phase II soil and soil vapor site investigation.
- Huntington Beach, CA. Retained as an expert on PCE fate and transport. Deposition (Defense, 17892 Jamestown, et al., v Goldenwest Laundry, et al., Case No. 30-2014-00705041-CU-NP-CJC).
- City of Industry, CA. Hired to determine dewatering options, calculate volumes, and review disposal options.
- Lafayette, CA. Hired to review Soil and Groundwater Management Plan.

2016

- San Jose, CA. Hired to review and perform site investigation in association with PCE.
- Los Angeles, CA. Hired to develop soil and groundwater sampling plans for CalTrans.
- Malibu, CA. Hired to review groundwater withdrawal impacts on a local stream.
- Malibu, CA. Hired to develop and survey several groundwater monitoring wells.
- Malibu, CA. Hired to oversee pilot drill holes for City water injection program.
- Anaheim, CA. Hired to review RI/FS of a former dry-cleaning facility.
- Santa Barbara, CA. Retained as an expert on PCE contamination fate and transport. Expert Report, Rebuttal Report, and Deposition (Defense, Goldberg, et al., v Goss-Jewett Company, et al., Case No. EDCV 14-1872DSF).
- Malibu, CA. Hired to install several monitoring wells and rehabilitate an existing well.

2015

- Denver, CO. Retained as an expert on water wells and hydraulic fracturing. Expert Report, Rebuttal Report, and Deposition (Defense, Hydro v Denver Southeast Suburban Water, and Sanitation District et al., Case No. 201CV30849).
- Orange County, CA. Retained as an expert on groundwater. Deposition (Defense, Kirk, et al., v Varco, et al., Case No. 30-2010-00423097).
- Orange County, CA. Hired to review the South Coast Water District Desalination Program, specifically the slant intake wells.

- Malibu, CA. Hired to oversee groundwater issues associated with a landslide.
 - Malibu, CA. Hired to install several groundwater monitoring wells in association with WDR permit.
 - Los Angeles County, CA. Retained to provide expert testimony regarding well abandonment (Defense, Golden State Water Company v. General Pump, et al.).
 - Los Angeles County, CA. Retained to provide expert geology and hydrogeology testimony (Defense, C. Donald Albin, et al., v David Leu, et al., County of Los Angeles, Case No. TC027060).
 - Los Angeles County, CA. EIR review and comments for wastewater plant and disposal.
- 2014**
- Northern California. Phase II Site Investigation.
 - Los Angeles County, CA. Retained to provide expert rebuttal testimony on regional hydrogeology. Expert Rebuttal Report (Defense, City of Cerritos et al., v Water Replenishment District of Southern California, Case No. BS128136).
 - Los Angeles, CA. Hired to collect samples of both seepage water and treated effluent waters.
 - Loma Linda, CA. Retained to provide expert opinion on meteorological analysis (Plaintiff, SoCal Self-Storage – Loma Linda v City of Loma Linda, et al., Case No. CIVDS 1200111).
 - Los Angeles, CA. Hired to review multiple potentially responsible parties' case files for the Los Angeles Department of Power and Water (Plaintiffs).
 - Malibu, CA. Hired to abandon multiple groundwater monitoring wells.
- 2013**
- San Diego, CA. Retained to provide expert testimony on surface water hydrology, geomorphology, and meteorological analysis (Defense, Jaffe v Bradshaw, et al., Case No. 37-2011-00055925-CU-PO-NC).
 - Lancaster, CA. Hired to peer-review a groundwater model and subsidence issues.
 - Malibu, CA. Hired to review wastewater treatment options.
 - Malibu, CA. Hired to review and reply to EIR comments about wastewater discharge and hydrology, hydrogeology, and geology.
 - Olivenhain Municipal Water District. Hired to evaluate groundwater resources. Conceptual Water Resource Evaluation.
- 2012**
- Torrance, CA. Retained to provide expert testimony on groundwater seepage (Defense, Torrance Matrix Center Property Owners Association v. Headlands Realty Corporation, et al., Case No. BC462023).
 - Duncan, OK. Retained to provide expert testimony on the fate and transport of perchlorate and other contaminants of concern, geology, and hydrogeology. Expert Reports, Depositions, and Mediation Conferences (Plaintiff, Alexander, et al., v. Halliburton Company, et al., Case No. 5:11-cv-01343-M).
 - North Central Texas. Hired to evaluate the possible causation of potable water well failures.
 - San Francisco, CA. Conducted evaluation of contaminated soils for CalTrans.
 - Malibu, CA. Hired to conduct groundwater investigation and model of wastewater discharge into the subsurface. Includes the evaluation of ASR wells and groundwater-sea water interaction. Includes developing groundwater and surface water sampling protocols for long-term monitoring.
 - Malibu, CA. Hired to conduct groundwater investigation for wastewater treatment system upgrade on a single-family residence.
 - Fennville, MI. Retained to provide expert testimony on the fate and transport of contaminants of concern, geology, and hydrogeology. Expert Report and Deposition (Plaintiff, Barnes, et.al., v Birds Eye Foods, Case No. 1:10-cv-541).
 - San Nicolas Island, CA. Hired to develop a white paper on the feasibility of deep-well brine injection.

- Long Beach, CA. Hired to develop calculations of dewatering operations for the Gerald Desmond Bridge Replacement Project.
- Malibu, CA. Hired to conduct quarterly and annual groundwater and effluent sampling of commercial property.

2011

- Orange County, CA. Retained to provide expert testimony on hydrogeology, TCE/PCE, perchlorate contaminant sources, and remediation. Deposition (Defense, Orange County Water District v Sabic Innovative Plastics, Case No. 30-2008-00078246-CU-TT-CXC).
- Parker Dam, CA. Semi-Annual Groundwater Reporting to Bureau of Land Management.
- Baldwin Park, CA. Hired to oversee soil and groundwater sampling for CalTrans freeway expansion in association with FlatIron Corp., including both environmental and geotechnical sampling.
- Pomona, CA. Retained as a rebuttal expert to provide opinions on hydrogeology, contaminant sources (perchlorate), and historical fertilizer use. Expert Rebuttal Report and Trial Testimony (Defense, City of Pomona v. SQM North America Corporation, Federal Court).
- Malibu, CA. Retained and hired to evaluate groundwater conditions of a landslide area in association with geotechnical mitigation. This included overseeing groundwater monitoring, drilling of monitoring wells, and meteorological assessment. Included Mediation (Defense).
- Laguna Beach, CA. Hired to photo-document coastal cave collapse.
- Baldwin Park, CA. Hired to evaluate the soil contamination of several stockpiles associated with FlatIron Corp. for road construction.
- Malibu, CA. Hired to evaluate and construct artificial recharge wells associated with the City wastewater system. This included drilling test wells, aquifer testing, and water chemistry.
- San Jose, CA. Aided in the development of a construction proposal for FlatIron Corp.
- Riverside County, CA. Reviewed ADL reports for SEMA Construction Corp.
- Los Angeles County, CA. Provided Hydrogeologic evaluation of the landslide-impacted area.
- City of Los Angeles and Riverside County, CA. Wrote ADL Reports for CalTrans.

2010

- Fullerton, CA. Retained to provide expert testimony on contamination sources and remedial alternatives (Plaintiff, M&H Realty Partners v Aerojet-General Corp et al., CA State Court).
- Carson, CA. Provided review of contaminated soil data and sampling plan for hydrocarbon investigation.
- Fresno, CA. Wastewater sampling at National Raisin Plant. Provide consulting services on wastewater reuse.
- Pleasant Hill, CA. Retained to provide expert assessment of BTEX/MTBE (Declaration (Plaintiff)).
- Victorville, CA. Hired to provide background information on Desert Knolls Wash.
- Placer County, CA. Retained to provide a hydrogeological assessment of the production well and its impact on neighboring domestic wells on behalf of plaintiffs.
- Merced, CA. Retained as designated expert for Chromium VI contamination case. Work included providing hydrogeological analysis and guidance. Declarations, Expert Reports, Deposition, and Trial Testimony (Plaintiff, Abarca, et al., v. Merck-Federal Court).

1995 – 2010. *Environmental Science & Planning, LLC.* Partner (Owner Operator).

Project experience includes management, expert testimony, fieldwork, bid preparation, and consulting for public agencies and private companies in remediation, water resource evaluations, geophysical investigations, surface water management, sampling, and modeling. Selected consulting projects as follows:

2008

- Torrance, CA. Provided expert analysis of dry-cleaner facility for commercial property.
- Long Beach, CA. Aided in developing a conceptual model of a manufacturing facility.
- Provide technical oversight and alternatives for San Bernardino County Flood Control.
- Orange County, CA. Retained as a designated expert on a single-family home associated with potential water issues (Defense).
- San Bernardino County, CA. Provided consulting services concerning the water supply to an area of single-family residences.
- Signal Hill, CA. Provided expert analysis of downhole video of the suspected drain.

2007

- La Jolla, CA. Retained as a designated expert on surface and groundwater issues related to landslide (Plaintiff).
- Long Beach, CA. Retained as a designated expert on surface and groundwater issues surrounding a coastal condominium complex (Plaintiff).
- Norco, CA. Provide expert oversight to Wildermuth Environmental, Inc., on surface water and groundwater sampling protocols and training.

2006

- Riverside, CA. Environmental Impact Report. Provided technical support on land development associated with an old mining claim.
- Irvine, CA. Environmental Engineering and Contracting. Provided support and review of CPT, ROST data for an environmental contamination project in Illinois.

2005

- Malibu, CA. Retained as a designated expert on the hydrogeologic analysis of existing wastewater systems. Included Deposition (Defense).
- Riverside, CA. Oversaw specialized soil and groundwater sampling for Layne Christenson.

2004

- Oakland, CA. Soil and groundwater sampling for CalTrans.
- California. Statistical analysis of lead in soil samples for CalTrans highway expansion.
- Carpinteria, CA. Retained as a wetland expert, including HEC-RAS modeling.

2002

- Playa Vista, CA. Developed methane mitigation plan for residential and commercial development. This included testifying before the County Commissioners.

1999 – 2000

- Norco, CA. Oversaw development of methane sampling and mitigation standards for Riverside, California.
- Norco/Corona, CA. Methane Mitigation Investigation.
- Long Beach, CA. Conducted both soil and groundwater sampling for Carlin Environmental Consulting.

1998 – 2001 & 2007 – 2012. *Earth Consultants International, Inc.* Senior Consultant (www.earthconsultants.com) Work includes project management and hydrogeologist duties. Other activities include business development and marketing. Projects include wastewater, oil field seepage, methane mitigation, dewatering for construction purposes, EIR development, water resources investigations, watershed studies, and a regional groundwater GIS study for Riverside County.

2010

- Ocotillo/Coyote Wells, CA. Retained to review groundwater basin conditions in association with Wind Zero development (Testimony on behalf of Client – Imperial County).

1998 – Present: City of Malibu Specific Projects

- Hired to provide hydrogeologic services in association with a zero-discharge wastewater system. Aided in Salt Management Plan.
- Hired to provide hydrogeologic services associated with on-site wastewater, Miramar Investment Co.
- Retained to provide consulting services associated with wastewater discharge impacts to the subsurface at Malibu Racquet Club, Casa Malibu Inn, Wavebreak Restaurant, and Malibu Cantina Restaurant (Testimony on behalf of Client – LARWQCB).
- Retained by the City of Malibu to represent them in a surface water lawsuit (Defense).
- Oceanographic-Hydrogeological analysis and modeling of tidal fluctuations, storm surge, and impacts to a coastal developments wastewater discharge system.
- Conducted a regional groundwater study for the City of Malibu associated with a groundwater flow model of the downtown area. This includes fieldwork, data analysis, and modeling support (Testimony for Client – LARWQCB).
- Provided expert testimony for the City of Malibu on local groundwater conditions (Testimony on behalf of Client – LARWQCB).
- Hydrogeological Characterization and modeling of subsurface wastewater discharge (mounding) – Crummer Property, Malibu, California.
- Hydrogeological Characterization and modeling of subsurface wastewater discharge (mounding) – Winter Canyon, Malibu, California.
- Hydrogeologic Characterization and testimony to wastewater discharge to subsurface – Malibu, California. (Testimony on behalf of Client – LARWQCB)
- Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for proposed wastewater treatment facility in downtown Malibu (Testimony on behalf of Client – LARWQCB).
- Hydrogeologic Characterization and Assessment of Wastewater Discharge Impacts for Thirteen Single-Family Residences' Proposed Construction in Trancas Canyon, Malibu, California.
- Groundwater study of Winter Canyon, Malibu, California, to determine the feasibility of using the canyon for wastewater disposal.
- Groundwater study of 200 acres in preparation for the Malibu Civic Center EIR.
- Provide expert witness testimony on sewer seepage and geology for the City of Malibu (Testimony on City of Malibu – LARWQB).

2001

- Developed Safety Elements for Newport Beach, Brea, Glendale, and Pasadena.

2000

- Los Angeles, CA. Playa Vista Corporation – Groundwater and Methane Migration Investigation on Playa Vista Property (Testimony for Client – City of Los Angeles).

1999

- Safety Element of the General Plan, Riverside County.

- Orange, CA. Environmental Impact Report – Geologic, Seismic, and Hydrologic Sections of the Environmental Impact Report for the Proposed Sully-Miller Fieldstone Project.
- Brea, CA. Feasibility investigation to review mitigation options for active crude oil seeps (tar) and methane generation.

2001- 2007. Hromadka & Associates. Consultant

Provided litigation support, computer and physical modeling, expert report reviews, writing, and managing multiple cases and field-site inspections for the company.

2006

- San Diego, CA. PCB transport in San Diego Bay.
- San Francisco, CA. Physical model of apartment complex combined sewer and storm drain network.
- San Francisco, CA. Severe rainfall analysis for four storm events, flooding.

2005

- Yorba Linda, CA. Analysis of sediment transport from large grading project and nursery debris production at a school site.
- Irvine, CA. Groundwater uplift analysis of clogged filter fabric in the flexible lining and sediment transport in San Diego Creek in a 2-mile reach using flexible block lining.
- Torrance, CA. Sediment transport in Compton Creek downstream of Montrose Plant. Transport analysis of sediment in major/minor events.
- Development of Volume-based BMP design procedure for San Bernardino County WQMP.
- Multi-lake hydrologic and water quality analysis at Lake Merced, California. Phosphates, nitrates, golf courses, coliform in groundwater, flood control, and risk reduction. Tunnel flow capacity analysis. Hydrologic balance analysis.
- Santa Rosa, CA. Transport and fate of TCE, PCE in surface water.
- Anaheim Hill, CA. Soil water transport and ET studies for several hundred residences. Water balance studies.
- Fullerton, CA. Soil water transport and ET studies for several dozen residences. Soil water flux in concrete.
- San Clemente, CA. Soil water transport and hydrologic balance analysis near landslides.
- Castaic Lake, CA. Soil water transport and hydrologic balance analysis of residential tract.
- Oahu, HI. Groundwater plume transport, analysis of BTEX in rising groundwater and tidal effects.
- Daly City and San Francisco, CA. Flooding and tunnel capacity analysis.

2004

- Tehachapi, CA. Analysis of TDS, cement Kiln dust, chlorinated hydrocarbons, BTEX, TCA, TCE, DCA, and DCE, groundwater flow in fractured and faulted media.
- Irvine, CA. Groundwater hydrostatic pressure analysis, waterproofing of office center.
- Laguna Canyon, CA. Modeled Landslide.
- Fullerton, CA. Sediment and Debris production, transport, 50-acre watershed.
- Palm Springs, CA. Transport of Aeolian Sand, PM10, saltation, creep, and entrainment in the "*Blow Sand*" area.
- Water Quality holding time criteria development, 85 percent of average storm analysis, County of San Bernardino, Water Resources Division.

2003

- Torrance, CA. Sediment transport analysis between the city of Torrance and Santa Monica Bay. DDT transport.
- Analysis of TDS, viruses, bacteria, and raw sewage in New River and Salton Sea. Evaporation impacts to Salton Sea salinity.
- San Clemente, CA. Analysis of landslide development.

- Henderson, NV. Analysis of soil water excess. Perchlorate sampling and analysis
- Review of perchlorate modeling and transport, Mid-Valley Landfill, San Bernardino County, California.
- Groundwater supply and TDS inflow levels into New River and Salton Sea, Imperial Valley, California.
- Henderson, NV. Man-made preferential pathways and groundwater transport in land development.
- Anaheim Hills, CA. Water Supply, soil water saturation, landscape methodology review, moisture accumulation, and percolation tests.
- San Diego, CA. Analysis of releases, BTEX, MTBE, lead, groundwater flow, plume evolution, soil gas, soil TPH, CPT/LIF, HydroPunch data at Mission Valley.

2002

- Honolulu, HI. Sediment transport and erosion.
- Las Vegas, NV. Debris and sediment flow in Duck Creek.
- Irvine, CA. Statistical analysis of all Orange County sediment and contaminant data, San Diego Creek watershed.
- Ontario, CA. Groundwater modeling and analysis of Kaiser TDS plume.
- San Clemente, CA. Analysis of landslide hydrologic balance.

2001

- Irvine, CA. Stability of erosion control measures in San Diego Creek.
- Dana Point, CA. Erosion analysis of slope failures.
- Torrance, CA. Transport of DDT in surface water, groundwater, sediment, and atmosphere, M2000 transport of DDT from a chemical plant.
- San Diego, CA. Groundwater transport of fuel, free-product, in Mission Valley.

1996 – 1998, *SimulProbe Technologies*. Senior Hydrogeologist

Traveled extensively throughout North America and Europe, marketing various technologies. Promoted to head of marketing in the Midwest and Southwest regions. Responsibilities included budgeting, supervising staff, project management, and presenting to government officials and private contractors. My duties also included direct marketing to drilling firms and environmental consultants, supervising all sales personnel and marketing efforts, scheduling service calls and field operations, and assisting with R&D, field training, and site management.

Miscellaneous Projects

1995 – 1998, Project/Staff Geologist

- Kalamazoo, MI. Worked with United Environmental Technologies, Inc. to help develop sampling and well-construction protocols for various projects.
- Kalamazoo, MI. I worked for the GEM Regional Center at *Western Michigan University*. Conducted water budget analysis for watershed located in Calhoun County.
- Kalamazoo, MI. Worked with the *Health Division of the Michigan Department of Environmental Quality* on well-grouting issues surrounding public and private water supplies.
- Kalamazoo, MI. I worked with the Michigan Department of Environmental Quality on the hydrogeological and geochemical aspects of the Panelyte site. This involved the use of geophysics and geochemical analysis for the detection and mapping of possible contaminants.
- Ross Township, MI. Retained through *Western Michigan University* by the City of Kalamazoo to determine the impact of a proposed wellfield on the surrounding surface water bodies (streams, lakes, and wetlands).

1993 – 1995

- Minden, MI. Retained by *Michigan Peat Company* to evaluate peat reserves. The evaluation involved sampling and mapping the peat reserves for litigation.
- Salem, IL. Retained by *Hi-Shots Aerial Photography Inc.*, to setup and demonstrate internet capabilities for small businesses.
- Michigan. Retained by *Superior Environmental Corp.* to conduct EM-31 geophysical surveys. The surveys were designed to locate possible buried tanks in a downtown bank parking lot, a corner restaurant parking lot, fabrication/manufacturing buildings, and a former car dealership.
- Schoolcraft, MI. *Alpha GeoSciences Inc.* (Through Department of Geology, Western Michigan University). Hired to run a hollow stem auger drill rig. Three 30-foot wells were installed.
- Kalamazoo, MI. *Golder Associates Inc.* (through the Institute for Water Sciences, Western Michigan University) retained geophysical log monitoring wells within the KL-landfill CERCLA site using natural gamma radiation.
- Champaign/Urbana, IL. Conducted an aerial photographic survey of the Champaign/Urbana landfills to locate hot spots where possible sub-surface fires may be burning. The contract was funded through the *Illinois State Geological Survey*.
- Ann Arbor, MI. Conducted aerial photographic survey of a contaminated wetland for *Alpha GeoSciences Inc.* of Kalamazoo, Michigan. Provided site maps of monitoring wells and sampling locations.

1991 – 1993

- Sanibel Island, FL. Retained by the *City of Sanibel Island, Florida*, to evaluate coastal erosion along the Gulf Coast side of the island for litigation.
- Paris, France. Retained by *Littoral et Patrimoine* for projects in France and India. Evaluated coastal erosion and constructed possible solutions to ongoing erosion problems.
- Sandusky, OH. Designed a sediment coring program along the Sandusky River and part of Lake Erie for a project funded by the *Ohio Department of Natural Resources*. The sediment cores were used to define the sediment input from the Sandusky River and Lake Erie on adjacent estuaries/marshes.
- Three Rivers, MI. Retained by *Reid and Reid Law Offices*, Kalamazoo, Michigan, to evaluate the effects of the construction of a golf course and adjacent buildings on the water quality of Lake Templene for litigation.
- Portage, MI. Designed and coordinated the work on an aeration pilot project on Austin Lake. This project involved bottom sampling, coring, and sediment profiling. Collected and analyzed the sediment and water samples for the *Ramco Company*. Prepared an independent report on the success of the entire project.
- Ludington, MI. Assisted on the Department of Geology's state-funded project involving erosion control monitoring of Undercurrent Stabilization systems.
- Michigan. Assisted the Western Michigan University Department of Geology on a state-funded project regarding erosion monitoring along Lakes Michigan and Huron.
- Wilmington, NC, and Plainwell, MI. Retained by Dr. Thomas Straw to analyze various meteorological parameters for a host of hydrology projects.
- Plainwell, MI. Retained by Dr. Thomas Straw to solve problems associated with a gravel pit operation.

1990 – 1991

- Atlanta, GA. Retained as a consultant by *Sutherland, Asbill & Brennan*, to address a wetland problem within one of *Mobil Land Development Company's* major developments. This included wetland hydrology, soil chemistry monitoring, and aerial photographic interpretation. Litigation support.

- Benton Harbor, MI. Member of Scientific Party – Great Lakes Mapping cruise of eastern Lake Michigan (United States Geological Survey cruise no. NPTN91-1). The resultant sediment samples were split between WMU and the USGS, allowing for research on Fourier shape analysis to possibly fingerprint sediment origin.
- Western Michigan University, Institute for Water Sciences. Research assistant on a USGS-funded project along the Lake Michigan shoreline.

1989 – 1990

- Western Michigan University. Worked with the Department of Geology on small construction projects and consulted on a State of Michigan-funded project addressing shoreline erosion.

1983 – 1989

- Hutchinson, MN. *3M Company*. Summer Intern - I worked at various jobs for the 3M Company, including being a heavy equipment operator, plastic injection molding, and VHS line operator.

TEACHING EXPERIENCE

2024 – Present California State University, Fullerton, CA

Professor of Hydrogeology. Responsible for teaching lower division classes in Hydrogeology (GEOL 436); Physical Geology (GEOL 101-GE); Water Crisis in California (GEOL 310T); Sedimentology and Stratigraphy (GEOL 321); Hydrology and Surface Processes (GEOL 335); Meteorology (GEOL 340-GE); Oceanography (GEOL 333-GE); Physical Geology (GEOL 101-GE) and Lab (GEOL 101L-GE); Field Camp (GEOL 481) and upper division classes in Groundwater Modeling; Environmental Sampling and Protocols; Well Hydraulics and Aquifer Analysis (GEOL 535T); Research Methods in Geology (501); Geology Seminar (GEOL 590).

2006 – 2024 California State University, Fullerton, CA

Associate Professor of Hydrogeology.

2015 – 2026 Western Michigan University, Kalamazoo, MI

Adjunct Associate Professor, Department of Geological and Environmental Sciences.

2000 – 2006 California State University, Fullerton, CA

Assistant Professor of Hydrogeology.

2001 – 2016, 2023-2024 Western Michigan University, Kalamazoo, MI

Responsible for Summer Field Course in Hydrogeology. Teach at least 1-week graduate-level field course(s) every year, including (1) Principles of Well Drilling and Installation; (2) Principles and Practices of Aquifer Testing; (3) Remediation Design and Implementation

1999 – 2000 California State University, Fullerton, CA

Part-time instructor. Responsible for Oceanography (GEOL 333) and Water Quality (GEOL 437).

1992 – 1996 Western Michigan University, Kalamazoo, MI

Graduate Student Instructor responsible for Hydrogeology (GEOL 435), Oceanography (GEOL 333), and Hydrogeology Summer Field Course (GEOL 535 a, b, c, d, e, and f). This field course consisted of six individual modules (40-Hour HAZWOPER, Environmental Surface Geophysics, Principles of Well Drilling and Installation, Principles and Practices of Ground-Water Sampling and Monitoring, Principles and Practices of Aquifer Testing and Analysis, and Remediation Design and Implication). Other responsibilities included construction measurements and layouts for the Department of Engineering Technology. Responsible for the lab sequences only.

Other Teaching Experience

2021-23 Instructor – Gregg Drilling Field Day

2021 Instructor – California Public Water Supply Systems

2018 Instructor – CalGeo – Soil Logging and Litigation

2016-17 Instructor – SCGS – Soil Sampling and Classification Short-Course

2012 Instructor – NGWA Hydrogeology Field Methods Course: What you didn't learn in School. Andover, MN.

2010-11 Reviewer/Participant – Worked with Healthy Heroes, LLC developing educational videos.

1996 – 98 Instructor – *Eight-hour OSHA HAZWOPER* supervisor course (29 CFR 1910.120 (e)(3)).

1995 Hi-Shots International Conference. Taught short courses on environmental remote sensing utilizing a helium-filled tethered blimp.

1992 Kalamazoo, Michigan. Teaching Assistant for a course titled *Shoreline Geology and Processes*. Course sponsored by the Secondary Education of Michigan Summer (SEMS). This was a state-funded project.

1991 St. Joseph, Michigan, Berrien County. Teaching assistant for a *Shoreline Geology and Processes* course sponsored by the SEMS State-funded project.

Developed CSUF-Departmental Short-Courses:

- CPT Demonstration Day – Gregg Drilling (2010)
- AMS Demonstration Day (2009)
- GeoProbe Demonstration Days (2009 – 2011, 2017)
- Westbay Multiport Sampling (2004-09, 2017)
- CPT Field Demonstration on Quality Environmental Site Investigation. (In-cooperation with Gregg Drilling) (2004)
- Environmental Sampling Procedures and Practices (2003)
- Borehole and Well Logging Interpretation (Taught at Layne Christenson) (2003)
- Baroid Industrial Drilling Products – Drilling and Boring Fluids (2002)
- GIS Course I & II – What is GIS and how can it be utilized in research (2001)
- FEMA – Advanced HAZUS Training for GIS Professionals (2001)

TEACHING PHILOSOPHY

As a professor, I aim to provide students with practical experience essential for building a successful career. In addition to providing the “nuts and bolts” of a subject, I encourage students to apply traditional knowledge to innovative approaches through applied research and hands-on experience. I aspire to motivate students by fostering participation in unique learning opportunities, many of which are provided by local companies, agencies, and vendors willing to share their services and expertise.

Through private and government grants and contracts, I can provide multiple funding opportunities to my students, allowing them the means to spend more time on their academic studies and providing experience through field-related projects. My main research focus is groundwater hydrology and hydrogeology of arid environments. Most of my students directly participate in this research and can obtain either Bachelors’ or Masters’ degrees through individual projects for which they are responsible.

I encourage my students to actively participate in professional organizations to build strategic partnerships and create a broad-reaching network of individuals and indispensable resources. Further, I encourage students to present abstracts and posters at local and national conferences and to publish their research as much as possible to stimulate educated discussions with their peers and accomplished professionals.

The best way to measure the effectiveness of my objectives and judge my goals is to elicit student feedback and evaluation. My students consistently rate me very high in their end-of-semester assessments. My biggest reward as a teacher is a lasting professional and personal relationship with my students. I enjoy working with and supporting students through their academic careers and feel honored when they graduate with a professional degree.

AWARDS, HONORS, SPECIAL QUALIFICATIONS

- NGWA 2024 Fellow Designation
- NGWA 2024 Robert Storm Intersectional Cooperation Award
- NGWA 2014 Ross L. Oliver Award
- NGWA 2014 Keith E. Anderson Award
- Western Michigan University 2011 – Distinguished Alumni Award
- NGWA 2009 McElhiney Lecturer for Water Well Technology
- International Ground Source Heat Pump Association (IGSHPA) Accredited Trainer (20589-0709)
- Boy Scouts of America – Merit Badge Sponsor: Geology, Oceanography, Environmental Science, and Soil and Water Conservation
- CSUF – Student Association, Outstanding Academic Advisor (2003/04)
- CSUF – NSM Nominee for Outstanding Contributions to Student Success Award (2002/03 & 2003/04)
- Western Michigan University established a scholarship in my honor for the outstanding hydrology field camp students. Awarded annually since 1998.
- Western Michigan University, Department of Geology, Distinguished Service Award, 1997
- Western Michigan University Research Fellowship 1991-1992
- IEEE OCEANS 92' student paper finalist
- OSHA 40-Hour Hazwoper Supervisor, Active

NATIONAL AND UNIVERSITY COMMITTEES

- CSUF, Hiring Committee for VP Government and Community Relations (2020)
- CSUF, Campaign Congress, 2020-present
- CSUF, Strategic Planning Committee Member, 2019-2022
- CSUF, Hiring Committee for VP Advancement (2018)
- CSUF, University Advancement Committee Member, 2003-05; 2011-15; 2017-21 (chair 2017-20)
- CSUF, Freshman Pathways (Sustainability), Committee Member, 2013-2015
- CSUF, ENST Advisory Committee, 2004 - present
- WMU, Geosciences Advisory Council Member 2007 - present (Chair 2021-)
- GRAC – Educational Committee Member 2009 - present
- NWRI – Independent Advisory Panel; OCWD Santa Ana River Monitoring Program, 2006-2012
- Long Valley Hydrologic Advisory Committee, 2003-2009

NATIONAL GROUND WATER ASSOCIATION

- NGWA Research and Education Foundation, President, 2015-2017
- NGWA Research and Education Foundation, Board Member, 2010-2014, 2017-2018
- Scientists and Engineers Division, Past Chair 2012-2014
- Scientists and Engineers Division, Chair 2010-2012
- Scientists and Engineers Division, Vice-Chair, 2008-2010
- Scientists and Engineers Division, Board Member, 2004-2008; 2016-2020
- NGWA - McElhiney Lecture Committee, 2014 - 2018 (chair 2014); 2019 - 2021
- NGWA – Board of Directors, 2008-2014
- NGWA – Professional Development Committee Member, 2000 - (chair 2009-2010)
- NGWA – Groundwater Summit Co-Chair (2006): Committee Member (2005, 2007-2012)

FUNDED GRANTS and CONTRACTS
(CSUF total to date through 2024: over \$ 3,000,000)

2016-2020

- California High Speed Rail Authority (\$500,000); Oversee Groundwater issues as they may pertain to construction and operations of the California High Speed Rail. Including groundwater modeling review and deep groundwater monitoring.

2004 – 2014

- Mojave Water Agency (\$2,099,000); *Grant for work on Water Resource Evaluation and Mapping – Mojave Desert Region* (Alto, Este, Oeste, and Centro Hydrologic Sub-areas).

2003

- Mojave Water Agency (\$217,000); Water Resource Research within the Mojave Desert. Part of this project is to develop a GIS/Database inventory of all wells, groundwater elevations, and hydrogeochemistry of each basin within the boundaries of MWA. Specific portions of the grant were set aside to oversee, collect, and analyze data from a 2,500-foot-deep multiport monitoring well near Oro Grande Wash.
- Friends of the San Gabriel River (\$32,000); *Citizens Monitoring Program Development and Implication*. This was funded through a State of California Grant (Prop 50).

2002

- Mojave Water Agency (\$57,405); *Groundwater Investigations to look at potential recharge areas throughout the Southern Mojave Desert Area*. Establish a digital well log inventory and bibliographic search of all documents on MWA Water Agency. CSUF also developed a key well program for Lucerne Valley based on groundwater basin recharge.
- CSUF Service-Learning Mini-Grant (\$1,500); *Integrating Service Learning into Advanced Environmental Geology*.
- Earth Consultants International, Inc. (\$3,000); *Geologic Interpretation of borehole geophysics. Involves the gamma-ray logging and interpretation of subsurface geology*.

2001

- CSUF Service-Learning Mini-Grant (\$3,000); *Integrating Service Learning into Advanced Hydrogeology Sampling*.
- San Elijo Lagoon Conservancy (\$35,000); *Sediment Quality and Depositional Environment of San Elijo Lagoon*.
- Los Angeles Regional Water Quality Control Board (\$31,000); *The Santa Clara River Watershed; GPS and Observational Report on the Santa Clara River*
- Grant to develop a web-based model on Distance Calibration of Earth Images (\$800). This was part of the Advanced Technology in Science Learning Environments Grant through the Department of Biology.
- CSUF Summer Support Assistance (\$5,000): This was summer support money to aid in sampling water and soil throughout Orange County, California.

2000

- Los Angeles Regional Water Quality Control Board (\$25,000); *The San Gabriel River Watershed; GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach*.

IN-KIND DONATIONS for Research / Projects

- Supplies for Screen and Gravel Pack Analysis (est. \$6,000); Donated by Johnson Screens
- DJI Phantom II (est. \$2,500); Donated by Earth Forensics Inc.
- Cave Bear, misc. fossils (est. \$200,000); Donated by Gregg Family Foundation
- Woolly Mammoth (est. \$500,000); Donated by Gregg Family Foundation
- Software (Visual Modflow) (\$2,700); Donated by Earth Forensics Inc.
- Soil sampling supplies and equipment (\$2,500); Donated by GeoProbe
- Deep Multiport Westbay Monitoring Well (\$300,000); A deep multiport monitoring well was installed on the northwestern portion of campus to develop a long-term monitoring program for groundwater in the north Orange County groundwater basin. The well was installed with sampling ports at six different zones to 850 feet below ground level. The entire project was donated.
- Miscellaneous equipment supplies and laboratory analysis have been donated for a multitude of different projects (\$50,000). These donations have been used for student thesis research and classroom activities.
- Sampling Truck (value \$30,000). The vehicle is specially designed to collect water samples downhole – equipped with twin generators and a large-capacity hydraulic system. Donated by Earth Technologies, Inc.
- Ford F-250 Pickup (\$8,000); Donated by URS Corporation
- Generator (\$2,500); Donated by Aquifer Science and Technology
- Software (Waterloo Hydrogeologic – Visual Modflow, AquiferTest and Aquachem) (\$10,000)
- Software (Groundwater Vistas) (\$2,500+\$2,250 for update)
- Conference table and chairs (\$500); Donated by URS Corporation
- Arboretum Groundwater Study (approximately \$10,000); Drilling and installation of 3 monitoring wells for the purpose of developing curriculum for general hydrogeology. These wells are part of a larger project to interpret the hydrogeology of CSUF and the local area.

PROFESSIONAL PUBLICATIONS, ABSTRACTS, PRESENTATIONS and POSTERS

Peer-Reviewed Publications (Published, Accepted, Submitted)

1. Laton, W.R., Perez, R., Foster, J.F., 2024, *UAV Thermal Mapping as a New Tool to Document Baseline Environmental Conditions: The California High-Speed Rail through the San Gabriel Mountains, California*. Groundwater Monitoring & Remediation. <http://doi.org/10.1111/gwmmr.12644>
2. Laton, W.R.; Foster, J.H. 2023. *Abrupt Late Holocene Closure of San Elijo Lagoon, Northern San Diego County, California*. Coasts 2023, 3, 227-239. <https://doi.org/10.3390/coasts3030014>
3. Laton, W.R., 2021. *Malibu, California: A Story of Wastewater, Politics, and Science*. The Professional Geologist. 2021; Vol. 58. No. 2, pages 15-19. USPS 590-810 and ISSN 0279-0521
4. Laton W.R., 2019. *New perspectives on horizontal to vertical well ratios for site cleanup*. Remediation. 2019; 30: 27–31. <https://doi.org/10.1002/rem.21628>
5. ²D. Dailey, W. Sauck, M. Sultan, ²A. Milewski, ²M. Ahmed, W.R. Laton, R. Elkadiri, J. Foster, C. Schmidt, and T. Al Harbi., 2015. *Geophysical, geochemical, and remote sensing applications for a better understanding of the structural controls on groundwater flow in the Lucerne Valley, California*. Journal of Hydrology: Regional Studies 3 (2015) 211-232. <https://doi.org/10.1016/j.ejrh.2014.12.002>
6. Laton, W.R., 2006. *Building Groundwater Monitoring Wells on Campus – A Case Study and Primer*. Journal of Geoscience Education (Vol. 54, No. 1), pgs 50-53. <https://doi.org/10.5408/1089-9995-54.1.50>
7. Laton, W.R., Whitley, R.J., and Hromadka II, T.V., 2006. *A Methodology for Identifying the Potential Source of Groundwater Contamination in a Multiple Source Problem Using a New Mathematical Approach*. Hydrogeology Journal. <https://doi.org/10.1007/s10040-006-0106-4>
8. Laton, W.R., Hromadka II, T.V. and Picciuto J.A., 2006. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. Hydrological Science and Technology, Volume 22, No.1-4.
9. Laton, W.R., 2004. *Seepage, Flow and Chemical Partitioning Between the City of Parchment Wellfield and the Kalamazoo River, Southern Michigan*. Journal of Floodplain Management (Vol. 4, No. 1), pgs 11-32.
10. Perez, R., Foster, J.F. and Laton, W.R., *Hydrostratigraphy of Victorville Fan and Water Resources Implications*. (in prep)
11. Laton, W.R. and Foster, J.F., *Historical Knowledge of the Toxicity of TCE in the United States*. (in prep)

Guidebooks, Full Paper Proceedings, and Articles

1. Laton, W.R., Perez, R., and Bausch, D., 2018. Hazard Maps for Riverside County, California. San Diego Association of Geologists annual field trip guidebook (update of earlier version).
2. Laton, W.R. and Krstich, B., 2010. *Zoom Zoom, Public works managers are now using Google Earth to track environmental and water resources*. Public Works Online. (Public Works Manual 2010)
3. Laton, W.R., 2005. The Cutting Edge “*Teaching Hydrogeology in the 21st Century*”. NGWA-AGWSE News and Views. (article September 2005)
4. Jenson, J. and Laton, W.R., 2005. Second Annual Groundwater Summit. NGWA-AGWSE News and Views. (article September 2005)
5. Laton, W.R., 2004. *Building Ground Water Monitoring Wells on Campus: A Case Study and Primer*. NGWA-AGWSE News and Views. Vol. 1, Issue 1.
6. D. Bausch, E. Gath, T. Gonzales, and R. Laton, 2000. *GIS-Based Hazard Mapping and Loss Estimation in the Safety Element of the General Plan for Riverside County, California*. California: EERI 6th International Conference on Seismic Zonation, Riverside County, California.
7. Laton, W.R., ¹Perez, R., and Bausch, D., 2000. *New Hazard Maps for Riverside County, California*. San Diego Association of Geologists annual field trip guidebook.
8. Laton, W.R., 1992. *Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping*. OCEANS '92, Newport, Rhode Island.

Public Reports and White Papers

1. Laton, W.R., Foster, J., Perez, R., and Becker, M., 2020. *Phase II Groundwater Study – Palmdale to Burbank Section of California High Speed Rail*. California High-Speed Rail Authority.
2. Laton, W.R., 2019. *Reconsidering Horizontal to Vertical Well Ratios for Site Clean-up*. EnRx.
3. Laton, W.R., 2016. *Phase I Groundwater Study – Palmdale to Burbank Section of California High Speed Rail*. California High-Speed Rail Authority.
4. Laton, W.R., 2016. *DTSC Aquifer Test Guidance*. Reviewer for draft guidance document.
5. Laton, W.R., 2012. *Disposal of Desalination Effluent; Deep-Well Injection Feasibility San Nicolas Island, California*. US Navy.
6. Foster, J., Laton, W.R., et al., 2008. *Geologic Map Series of Mojave Region*. (750, 500, 250, 24' and 15'). Mojave Water Agency. Revised series, Fall 2010.
7. Laton, W.R., Foster, J., et al., 2007. *Oeste Hydrologic Sub-Basin Report*. Mojave Water Agency.
8. Hromadka, II, T.V., Laton, W.R. and ²Perez, R., 2006. *Hydrologic Data Report October 17-21, 2004 Storms*. Orange County Flood Control District.
9. Laton, W.R., Foster, J., et al., 2007. *Groundwater Atlas of Oeste Hydrologic Sub-basin*. Mojave Water Agency.
10. Laton, W.R., Foster, J., ²Ebbs, V., ²Blazevic, M., and ¹Napoli, N., 2007. *Harper Lake Hydrologic Sub-Basin Report*. Mojave Water Agency.
11. Laton, W.R., ¹Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Baja Hydrologic Sub-Basin to Afton Canyon Report*. Mojave Water Agency.
12. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Este to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
13. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Oeste to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
14. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Alto to Centro Hydrologic Sub-Basins Report*. Mojave Water Agency.
15. Laton, W.R., ¹Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Centro to Baja Hydrologic Sub-Basins Report*. Mojave Water Agency.

16. Hromadka, II, T.V., Laton, W.R., and Picciuto, J.A., 2005. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. San Bernardino County Flood Control District.
17. Laton, W.R., Foster, J., et al., 2004. *Este Hydrologic Sub-Basin Report*. Mojave Water Agency.
18. Laton, W.R., Foster, J., et al., 2004. *Groundwater Atlas of Este Hydrologic Sub-basin*. Mojave Water Agency.
19. Laton, W.R., et al., 2004. *San Gabriel River Watershed Atlas*. Friends of the San Gabriel River.
20. Laton, W.R., et al., 2004. *San Gabriel River Watershed QAPP and Sampling Manual*. Friends of the San Gabriel River.
21. Laton, W.R., ²Kendall, D. and ²Lizzy, A., 2004. *Drilling Methods and Materials*. Online course material for NGWA.
22. ¹Blazevic, M. and Laton, W.R., 2004. *Mojave River Stream Gauging*. Mojave Water Agency
23. Laton, W.R., 2002. *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy.
24. Laton, W.R. and Foster, J., 2001. *Sediment Quality and Depositional Environment of San Elijo Lagoon, San Diego County, California*. San Elijo Nature Conservancy and Fish and Wildlife Service.
25. Laton, W.R. and Foster, J., 2001. *Santa Clara River Watershed Inventory*. Los Angeles Regional Water Quality Control Board.
26. Laton, W.R. and Foster, J., 2000. *The San Gabriel River Watershed GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach*. Los Angeles Regional Water Quality Control Board.
27. Straw, W.T., ²Hascall, A.P., ²Laton, W.R., and ¹Dalman, M., 1997. *Groundwater – Surface Water Interaction Study in Ross Township*. City of Kalamazoo, Michigan.
28. Straw, W.T. and ²Laton, W.R., 1993. *WMU Austin Lake Aeration Feasibility Study Evaluation*. City of Portage, Portage, Michigan.
29. Straw, W.T., ²Wardwell, D.A. and ²Laton, W.R., 1992. *An Evaluation of Undercurrent Stabilization Anchor System Installation at Douglas and Tawas City, Michigan*. Michigan Department of Natural Resources.

¹Undergraduate Student

²Graduate Student

Abstracts, Presentations, and Posters

1. Laton, W.R., 2024. *25-Years of CSUF Research*. (Sac State Geology Department, Invited)
2. Hanna, T., Laton, W.R., and Kawaski², 2023. *Physical Parameters Compared for the Installation and Development of Glass Bead and Natural Filter Packs*. (NGWA Expo)
3. Laton, W.R., 2022. *UAV Thermal Mapping to Develop Baseline Conditions for California High-Speed Rail through San Gabriel Mountains!* (SCGC Invited)
4. Laton, W.R., 2021. *20-Years of CSUF Research – From the Mojave to the Ocean*. (GRAC Invited)
5. Laton, W.R., 2021. *Working with that new Geologist in the field*. (NGWA Expo - workshop)
6. Laton, W.R., 2021. *20-Years of CSUF Research – From the Mojave to the Ocean*. (ENST Invited)
7. Laton, W.R., 2021. *A Decision Tool to Determine if Horizontal Well Systems Can Replace Vertical Well Systems*. Florida Remediation Conference (recorded virtual presentation).
8. Laton, W.R., Havranek, T., Robinson, L. and Koenigsberg, S., 2021. *Fundamentals of Horizontal Well Systems and Modeling Tools*. AEHS, 30th Annual International Conference on Soil, Sediments, Water, Energy (Virtual - Workshop)
9. Laton, W.R., 2021. *A Decision Tool to Determine if Horizontal Well Systems Can Replace Vertical Well Systems*. AEHS, 30th Annual International Conference on Soil, Sediments, Water, Energy, (Virtual - Presentation)
10. Laton, W.R., 2021. *Groundwater of California*. WMU Geology (Invited)

11. Laton, W.R., Havranek, T., Robinson, L. and Koenigsberg, S., 2020. *Fundamentals of Horizontal Well Systems and Modeling Tools*. AEHS, 36th Annual International Conference on Soil, Sediments, Water, Energy (Virtual - Workshop)
12. Laton, W.R., 2020. *Groundwater of the States: California*. NGWA Webinar Series.
13. Laton, W.R., 2020. *A Decision Tool to Determine if Horizontal Well Systems Can Replace Vertical Well Systems*. AEHS, 36th Annual International Conference on Soil, Sediments, Water, Energy, (Virtual). (abstract/presentation)
14. Laton, W.R., 2020. *New Perspectives on Horizontal to Vertical Well Ratios for Site Cleanup*. 12th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Battelle, Portland, OR. (abstract/presentation) (conference postponed)
15. Laton, W.R., 2020. *Malibu California, Wastewater and Politics* Cal State University, Fresno, CA. (Invited)
16. *Alonzo, T., Laton, W.R., Hanna, T., 2019. *Comparing Natural Silica Sand and Glass Bead Filter Packs Used in Production Well Design and Construction*. NGWA Expo, Las Vegas, NV. (abstract/presentation) (Outstanding Research Award)
17. Laton, W.R., 2019. *The Concept of Sustainability and the Recruiting of Younger Millennials*. NGWA Expo, Las Vegas, NV. (workshop)
18. Laton, W.R., 2019. *Reconsidering Horizontal to Vertical Well Ratios for Site Clean-up*. AEHS, 29th Annual International Conference on Soil, Water, Energy, and Air. San Diego, CA. (abstract/presentation)
19. Laton, W.R., 2018. *Take my Job*. NGWA Expo, Las Vegas, NV. (workshop)
20. Laton, W.R., 2018. *Groundwater – The Water Beneath Our Feet*. CSUF Fullerton Arboretum. (Invited)
21. *Perez, R. and *Laton, W.R., 2018. *The Use of UAVs for Groundwater Research*. California State University, San Bernardino. (Invited)
22. *Perez, R. and Laton, W.R., 2017. *UAV's for Use in Groundwater Resources*. NGWA Expo, Nashville, TN. (workshop)
23. Laton, W.R., 2017. *Introduction to Borehole Geophysics*. NGWA Expo, Nashville, TN. (workshop)
24. Laton, W.R., 2017. *Malibu California, Wastewater and Politics*. Southern California Chapter of AEG. (Invited)
25. Laton, W.R., 2017. *Low Altitude Photography Utilizing UAVs – Geologic and Hydrologic Applications*. Los Angeles Basin Geological Society. (Invited)
26. Laton, W.R., 2016. *Preparing for the Field, What to Take?* NGWA Expo, Las Vegas, NV. (workshop)
27. Laton, W.R., 2016. *Wastewater, Politics and Science*. South Coast Geological Society (Invited).
28. Laton, W.R., 2016. *Malibu, California; A Story of Wastewater, Politics and Science*. Western Michigan University. (Invited)
29. Laton, W.R., 2016. *Holding Back the Ocean and Recharging Aquifers with Treated Wastewater*. Minnesota Groundwater Association, Annual Meeting. (Invited)
30. Laton, W.R., 2016. *UAV Mapping and Business Opportunities*. Ground Water Institute. Tucson, AZ. (Invited)
31. Laton, W.R., 2016. *Malibu, California; A Story of Wastewater, Politics and Science*. GSA Section meeting, Ontario, CA. (abstract/presentation)
32. *Perez, R., Laton, W.R., Cruikshank, M. and ¹Hugh, C., 2016. *UAV Imagery and Mapping: What are the Capabilities and Limitations?* SAGEEP 2016, Denver, CO. (abstract/presentation)
33. Laton, W.R., 2015. *Sounder Selection – Show and Tell*. NGWA Expo, Las Vegas, NV. (workshop)
34. Laton, W.R., 2015. *Preparing for the Field – What to Take?* NGWA Expo, Las Vegas, NV. (workshop)
35. Laton, W.R., 2015. *Using Sand Tank Models to Explain Groundwater Flow*. NGWA Expo, Las Vegas, NV. (workshop)
36. Laton, W.R., 2015. *When does it make Sense to Learn from a Person vs. Learn from a Device?* NGWA Expo, Las Vegas, NV. (workshop)

37. Laton, W.R. and Perez, R., 2015. *Low Altitude Photography Utilizing UAV's*. Long Beach State University – GIS Day Mixer. (Invited)
38. *Laton, W.R., *Perez, R. and *Cruikshank, M., 2015. *Low Altitude Photography utilizing UAV's – Geologic and Hydrologic Applications*. IGS, Riverside, CA. (Invited)
39. Laton, W.R. 2015. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint and Drones for Use in Water Resources*. Mountain States Groundwater Expo, Laughlin, NV. (Invited)
40. Laton, W.R. 2015. *Backyard Soils*. Natural OC, Santa Ana, CA. (Invited)
41. Laton, W.R. 2014. *Using Google Earth for Hydrogeological Problem Solving*. NGWA Expo, Las Vegas, NV. (workshop)
42. Laton, W.R. and *Perez, R., 2013. *Got Geological Problems-How to Use Innovative Multimedia Applications to Identify and Analyze Them*. NGWA Expo, Nashville, TN. (workshop)
43. Laton, W.R., 2013. *Hydrogeology 101*. NGWA Expo, Nashville, TN. (lecture)
44. Laton, W.R., 2012. *Hydrogeology 101*. NGWA Expo, Las Vegas, NV. (lecture)
45. Laton, W.R., 2012. *Using Sand Tank Models to Teach about Groundwater*. NGWA Expo, Las Vegas, NV. (workshop)
46. Laton, W.R., 2012. *Geothermal Forum: Business Success Through Excellent Performance – Hydrogeology (Really) Does Matter*. NGWA Expo, Las Vegas, NV (lecture)
47. Laton, W.R., 2011. *Using Sand Tank Models to Teach about Groundwater*. NGWA Expo, Las Vegas, NV. (workshop)
48. *²Dailey, D.R., Sauck, W.A., Sultan, M., ²Milewski, A., Laton, W.R. and Foster, J.H., 2011. *Geophysical and Remote Sensing Applications for better understanding of the Structural (Faults/Basement Uplifts) Controls on Groundwater Flow in the Lucerne Valley, California*. GSA Annual Meeting. (abstract/presentation)
49. Laton, W.R., 2011. *Implications of Surface Water/Groundwater Interaction or Groundwater and the Impacts on Surface Water Delivery*. Declining Groundwater Levels: Measuring, Monitoring, and Mitigation. NGWA Virtual Conference.
50. Laton, W.R., 2011. *Hydrogeology 101*. Santa Susana Field Laboratory seminar series. (workshop)
51. *²Barker, S., Laton, W.R. and Foster, J.H., 2010. *An investigation of potential surficial recharge in the Lucerne Valley groundwater basin, Mojave Desert, CA*. Anaheim, CA. GSA Abstract with Programs. Vol. 42, No. 4, p. 97, Paper No. 45-2.
52. Laton, W.R., 2010. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint*. GRA Webinar.
53. Laton, W.R., 2010. *Using Google Earth in Water Resources Research*. NGWA Webinar.
54. Laton, W.R., 2010. *Hydrogeology 101*. NGWA National McEllhiney Lecture 2010, Sponsored by the NGWAREF (Invited 7 presentations throughout the U.S.)
55. Laton, Richard, *²Al Harbi, Talal, Sauck, William A., Foster, John, Sultan, Mohamed, ²Milewski, Adam, ²Marsala, Peter, ²Balekai, Rajesh, and ²Salim, Hassan, 2009. *Use of Geophysical and Remote Sensing Data for a Better Understanding of the Hydrologic Role of Faults in the Mojave Desert*. GSA Annual Meeting. (abstract/poster)
56. Laton, W.R., 2009. *Using Google Earth*. NGWA Expo, New Orleans, LA. (workshop)
57. Laton, W.R., 2009. *Hydrogeology 101*. NGWA Expo, New Orleans, LA. (workshop)
58. Laton, W.R., 2009. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint*. NGWA National McEllhiney Lecture 2009, Sponsored by NGWAREF. (Invited 30+ presentations throughout North America)
59. Foster, J.H. and *Laton, W.R., 2008. *Groundwater Resources Sustainability in the Victorville Area: Results from the Oro Grande Wash Recharge Pilot Study*. Association of Engineering Geologist. (abstract/presentation)
60. *¹Dailey, D., Laton, W.R., and Foster, J.H., 2008. *New Detailed Model for El Mirage Subsurface Geology, El Mirage, CA*. GRA Annual Meeting. (abstract/poster)

61. *¹Velarde, J.C., Foster, J.H., and Laton, W.R., 2008. *The Geology of Spring Systems in the Vicinity of White Mountain/Silver Creek, Lucerne Valley, San Bernardino County California*. GRA Annual Meeting. (abstract/poster)
62. *²Monzon, E. and Laton, W.R., 2008. *Estimating Applied Irrigation for Urban Landscapes in South Coast California, using Theoretical and Conventional Means*. GRA Annual Meeting. (abstract/poster)
63. *²Lizzi, A., Laton, W.R., Foster, J.H., 2008. *Evaluation of the Potential Groundwater Resources of A Confined Aquifer, San Diego County, California*. NGWA Groundwater Summit (abstract/presentation)
64. Laton, W.R., 2006. *Surface Water and Ground Water: How the Two Interact*. NGWA National Meeting. (Invited)
65. *¹Cruikshank, M.J., Foster, J.H. and Laton W.R., 2006. *Presence of Deep High-Quality Ground Water in El Mirage Valley, San Bernardino County, California*. NGWA Groundwater Summit (abstract/poster) (Outstanding Research Award)
66. *²Surko, T., Armstrong, P.A. and Laton, W.R., 2006. *Gravity Survey of Lucerne Valley Ground Water Basin, Mojave Desert, Southern California: Implications for Basin Geometry and Structure*. NGWA Groundwater Summit (abstract/presentation)
67. *²Barthel, P.S. and Laton, W.R., 2006. *Desert Studies Center: A Hydrogeologic Model and Water Budget*. NGWA Groundwater Summit (abstract/presentation)
68. Laton, W.R., 2005. *Methods to Determine Basin Yield*. GRA Groundwater Resources Series – Basin Yield and Overdraft: Scientific and Legal Perspective. (Invited)
69. Laton, W.R., 2005. *Borehole Logging from Sample Collection to Borehole Geophysics*. Presented at NSF Workshop on “*Teaching Hydrogeology in the 21st Century*”. (presentation/lab write-up)
70. Laton, W.R., 2005. *Water Budget Analysis – A Story of Two Arid Region Groundwater Basins*. CEA-Crest Symposium on Arid Hydrology. (abstract/presentation)
71. *Laton, W.R., Hromadka, T., Yeager, M., Picciuto, J. and Whitely, B., 2005. *A New Method for Estimating Runoff Quantities for Flow and Volume-based BMP Design*. CASQA Conference. (abstract/presentation)
72. *²Lizzi, A.L., Laton, W.R. and Foster, J., 2005. *Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
73. *²Boeke, B., Laton, W.R. and Foster, J., 2005. *Groundwater Potential for Harper Dry Lake: Implications for Ground Water Availability in Harper Valley, San Bernardino County, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
74. *²Kolstad, K. and Laton, W.R., 2005. *Hydrocarbon Soil Vapor: Actual vs Predicted*. NGWA 2005 Groundwater Summit. (abstract/poster)
75. *¹Napoli, N. and Laton, W.R., 2005. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
76. *²Perez, R. Foster, J. and Laton, W.R., 2005. *The Redefining of a Groundwater Basin, Alto Sub Basin, Southwestern Mojave Desert, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
77. *²Surko, T.L., Armstrong, P. and Laton, W.R., 2005. *Gravity Survey of Lucerne Valley Groundwater Basin, Mojave Desert, Southern California: implications for basin geometry and structure*. NGWA 2005 Groundwater Summit. (abstract/poster)
78. *¹Blazevic, M., ¹Napoli, N., Foster, J. and Laton, W.R., 2004. *Subsurface Geologic Investigation of a closed Alluvial Basin: Lucerne Valley, San Bernardino County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
79. *¹Napoli, N., ¹Blazevic, M., Laton, W.R. and Foster, J., 2004. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
80. *²Perez, R., Foster, J. and Laton, W.R., 2004. *Just how deep is it? Alto Deep Well and its impacts to Alto Groundwater Sub-Basin Geology*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)

81. ²Hunt, S. and ^{*}Laton, W.R., 2004. *Update on Geochemical Analysis of the Central Basin, Los Angeles County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
82. ²Haj-Manouchehri, D. and Laton, W.R., 2003. *Water Quality in Relation to Watershed Management in the Lower San Gabriel River, Southern California*. WRI conference (abstract/poster)
83. Laton, W.R., 2003. *Lessons Learned; Groundwater Flow Model – Taylor Yard, Los Angeles*. South Coast Geological Society. October 6, 2003. (Invited)
84. ^{*}Laton, W.R. and ¹Dolmat, J., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. National Ground Water Conference. (abstract/TIPS)
85. ²Figueroa, O. and ^{*}Laton, W.R., 2003. *Ground Water Modeling of a Coastal Aquifer Malibu, California*. National Ground Water Conference. (abstract/TIPS)
86. ²Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Water Level Monitoring, Lower Borrego Canyon Wash, Irvine CA*. National Ground Water Conference. (abstract/TIPS)
87. ²Hasegawa, S. and Laton, W.R., 2003. *Risk Assessment of Point and Non-Point Source Pollution on Water Resources along the Santa Ana River*. California Groundwater Conference. (abstract/poster)
88. ¹Dolmat, J. and Laton, W.R., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. California Groundwater Conference. (abstract/poster)
89. ²Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Precipitation Induced Recharge Data Lower Borrego Canyon Wash, Orange County California*. California Groundwater Conference. (abstract/poster)
90. ²Hunt, S. and ^{*}Laton, W.R., 2003. *Geochemical Analysis of the Central Basin, Los Angeles County, California*. California Groundwater Conference. (abstract/poster)
91. Laton, W.R., 2002. *Taylor Yard and Los Angeles River, Preliminary Groundwater and Surface Water Study Groundwater Model of Taylor Yard and Vicinity Los Angeles, California*. NGWA National Meeting. (abstract/poster)
92. ¹Otto Figueroa and ^{*}Laton, W.R., 2002. *Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California*. NGWA National Meeting. (abstract/poster)
93. ^{*}Laton, W.R., ²Sean Hunt, and Foster, J., 2002. *The Impact of Groundwater – Surface Water Interaction on Contaminant Distribution, San Elijo Lagoon, California*. NGWA National Meeting. (abstract/poster)
94. Laton, W.R., 2002. *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy. (Invited)
95. Laton, W.R., 2001. *Distance Calibration of Earth Images – To design and develop a Web delivered lesson showing an Advance in Information Technology that can be used in a Science Learning Environment for In-service Teachers (online lesson plan)*.
96. Laton, W.R., 2001. *The Role of Groundwater in Geologic Hazards*. California Science Academy (CEA-Crest). (abstract/presentation)
97. Laton, W.R., 2001. *Natural Hazards Mapping, Thailand*. Thailand Geological Survey. (Invited)
98. Laton, W.R., 2001. *Subsidence evaluation and assessment, Bangkok, Thailand*. Thailand Geological Survey. (Invited)
99. ^{*}Laton, W.R., ^{*1}Perez, R., and ^{*1}Figueroa, O., 2000. *Natural Hazard Mapping – A GIS Approach*. CSUF Geology Department.
100. Laton, W.R., 2000. *Natural Hazards Assessment of Temecula, California*. San Diego Association of Geologists annual field trip. (Invited)
101. ^{*}Sauck, W. A., Laton, W.R., ²Seng, D.L., and ²Vandereide, M.A., 2000. *Ground-penetrating radar investigations of nearshore sediments of eastern Lake Michigan*. IAGLR 2000.

102. Laton, W.R., 1999. *Watershed Management and Sampling Protocol*. Korean Ministry of Environment and Environmental Management Corporation short course. (Invited)
103. Laton, W.R., 1999. *Environmental Sampling – what, when and why*. Port of Los Angeles, Environmental Group. (Invited)
104. Laton, W.R., 1998. *Single Point Pneumatic Slug Test, Soil Vapor Extraction (SVE) Testing During Initial Site Investigation*. Hazardous Waste Section, SMARTech '98, Raleigh, NC. (abstract/presentation)
105. Laton, W.R., 1998. *SimulProbe® Environmental Core Barrel*. EPA National Site Assessment Conference. Denver, CO. (Invited)
106. *Marcus, D.L., ²Bonds, C.L. and Laton, W.R., 1997. *Rapid Screening using the SimulProbe Multimedia Sampler – Case Histories and Future Directions*. New England Environmental Exposition. (abstract/presentation)
107. *²Laton, W.R., ²Hascall, A.P., ²Atekewana, E.A., Hampton, D.R., 1996. *Seepage Meter Spatial and Temporal Variability in the Study of Groundwater Interaction with Surface Water Features*. American Geophysical Union, San Francisco, CA. (abstract/presentation)
108. ²Laton, W.R., 1996. *Well Grouting Research*. Michigan Environmental Health Association, Ground Water Conference, Thompsonville, MI. (Invited)
109. ²Laton, W.R., 1996. *SimulProbe Sampling in Contaminated Areas*. University of Michigan Summer Hydrogeology Field Course, Wortsmith Research Center, MI. (demonstration/presentation)
110. *Barnes, D.A., ²Kovacich, M.S., ²Limez, S., and ²Laton, W.R., 1995. *Error Analysis in Great Lakes Beach Profile Surveying Techniques*. Canadian Coastal Conference, Dartmouth, Nova Scotia. (abstract/presentation)
111. ²Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Colloquium on Environmental Earth Science, Western Michigan University, Kalamazoo, MI.
112. ²Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Hi-Shots International Conference, Saint Louis, Missouri. (Invited)
113. *Mackey, S.D., Guy, D.E., ²Laton, W.R., and ²Kovacich, M., 1994. *Geologic Framework of an Eroded Lake Erie Coastal Marsh – Metzger Marsh, Ohio*. North-Central Geological Society of America, Kalamazoo, Michigan. (abstract/presentation)
114. *Vincent, R.K., ²Laton, W.R. and ²Sattler, J., 1993. *Detailed Modeling of Solid Waste Landfill Surface Water Run-off from High Resolution Elevation Data Automatically extracted From Stereo Photos Taken by a Camera on a Tethered Balloon Platform*. Association of Engineering Geologists, San Antonio, Texas. (abstract/presentation)
115. ²Laton, W.R., 1993. *Site Characterization and Mapping Utilizing a Tethered Balloon System*. HI-SHOTS International Convention, Saint Louis, Missouri. (Invited)
116. ²Laton, W.R., 1992. *Coastal Processes and Use of a Blimp*. Shoreline Erosion and Coastal Processes in Berrien County, Lake Michigan College Environmental Center, St. Joseph, Michigan. (abstract/presentation)
117. *²Laton, W.R. and Straw, W.T., 1992. *Small-Scale Coastal Cells; Identification and Mapping*. First Thematic Conference, Remote Sensing for Marine and Coastal Environments, New Orleans, Louisiana. (abstract/poster)
118. ²Laton, W.R., 1991. *Undercurrent Stabilization Anchor Systems at Tawas on Lake Huron and Douglas on Lake Michigan – A One-Year Study*. Michigan Academy of Science, Ypsilanti, Michigan. (abstract/presentation)

¹Undergraduate Student; ²Graduate Student; * Presenter

SUPERVISED COMPLETED THESES

Student Name	Year	Degree	Thesis Title
Villegas, Isaak	2023	BS	PFAS Chemical Monitoring in Orange County, California
Williams, Andrew	2023	MS-ENST	Monitoring Water Quality of a Wetland: A Case Study in Norco, CA
Montgomery, Jakob	2022	BS	Flowability of Filter Packing Materials Based on Grain Size and Fluid
Esparza, Nestor	2022	BS	Fate and Transport of Contaminants in the South Basin Plume
Velasco, Melissa	2022	BS	Chino Basin Dairy Farm Nitrate Contributions
Kreller, Ethan	2021	BS	Analysis of Caltrans Boring Logs to Evaluate the Shallow Subsurface Vulnerabilities
Nagata, Brayden	2021	BS	Relationship Between Groundwater, Selenium Concentration, and the Corcoran Clay, NW Fresno County, CA
Zeko, Mike	2021	BS	Pomona Perchlorate Study
Strohm, Chelsea	2021	MS-ENST	The Use of Physical Groundwater Models in Higher Education
Allen, Ronald	2020	BS	The Carboniferous and Pleistocene; An Analysis on the Genus Preset within Geologic Time
Rangel, Liliana	2020	BS	Water Budget of the San Geronio Mountains Mill Creek and Santa Ana River Water Basin
Martinez, Charles	2020	BS	Implications of Grain Size on Hydraulic Conductivity
Murphy, Patrick	2020	MS-ENST	Evaluating the Fate of Legacy 1,4-Dioxane and NDMA in Orange County's Coastal Aquifers
Severin, Vitoria	2020	MS-ENST	Analyzing the Mission Valley Aquifer as a Groundwater Source in San Diego, CA.
Barragan, Adrian	2019	BS	Examining the Water Quality from a Section of the Santiago Creek
Chacon, Diana	2019	MS	Thermal Infrared Remote Sensing for Water Temperature Assessment Along the Santa Ana River Using an Unmanned Aerial Vehicle (UAV) System
Alonzo, Terrinda	2018	BS	13-Year Analysis of Water Pressure and Chemical Changes from Well CSF-1, Fullerton, CA
Case, Aaron	2018	MS-ENST	Perchlorate in Urban and Industrial Environments
Cragg, Byron	2018	BS	Designing Scientific Payloads for Use on Extra-Planetary Rovers
Emilio, Chelsea	2018	MS-ENST	Urban Firework Fallout
Escobar, Adrian	2018	BS	Ground Source Heat Pump Potential Characterization for California State University, Fullerton
Lopez, Daniel	2018	MS-ENST	Should California Price Water as a Commodity to Increase Conservation?
Meadows, Adam	2018	BS	Investigation and Monitoring the Spread of Water Contaminates Using an Open-Source Database in the Orange County Area
Offner, Erica	2018	MS-ENST	Carbon Dioxide Levels in Water Vapor
Vanderwal, Joshua	2018	BS	Safety Element for Cal State University Fullerton – Understanding of Hazards Surrounding the Campus
Grajeda, Remington	2017	MS-ENST	Shaping Environmental Attitudes in Students: An Inquiry-based Approach

Kennedy, Taylor	2017	MS-ENST	Investigation of the Laguna Cell Beaches Using Lidar and Erosional Examination
Masters, John Paul	2017	MS-ENST	Subsurface Analysis of Orange County Water District's La Palma Groundwater Recharge Basin in Anaheim, California
Forester, Danielle	2017	BS	Water Budget and Audit: Premier Color Nursery
Ibarra, Nancy	2016	BS	Drilling Methodology: A Field Guide and its Use for the Drilling Industry
Pham, Christine	2016	MS-ENST	Efficacy of Capsaicin-based epoxy coating for preventing attachment of Quagga mussels (<i>Dreissena Bugensis</i>)
Battig, Lisa	2015	MS-ENST	An Educational Kit Elucidating the Connections Between Sanitation, Hygiene and Waterborne Disease
Masters, John Paul	2015	BS	Subsurface Analysis of fluvial sediments from the Holocene-Pleistocene Epochs at California State University, Fullerton, California
Natividad, Anthony	2015	BS	A Hydrogeological Survey of a Mountainous Region: The Significance of Monitoring a Water Budget at a Localized Source
Carreon, Rosangela	2014	MS-ENST	Remote Sensing Climatic Impact on Snow Cover for the San Gabriel Mountains in Southern California
Cortez, Lucy	2014	BS	Wetlands Delineation using Dendrochronology and Historical Rainfall Data to Cross-date the Climatic Stress Regimes in the Prado Dam Basin Located in Corona, Riverside County, California
Law, Natalie	2014	BA	Evolution and Growth of a Mitigation Wetland: A Case Study in Norco, California
Morlan, Randall	2014	MS	The Effects of Agricultural Activities on the Migration of the Hinkley Chromium Plume, San Bernardino County, California
Dubberke, Kirk	2013	BS	Malibu Creek Watershed – Aquifer Testing Analysis
Kennedy, Taylor	2013	BS	Metasomatism of the Bird Spring Formation near Slaughterhouse Springs, California
Irani, Fabian	2013	BS	The Use of Groundwater Fluctuations in a Tidal Zone for the Determination of Aquifer Properties
Lockhart, Benjamin	2013	MS-ENST	Colonial Nesting Seabirds in Burris Basin: Forage Prey Availability Assessment and Habitat Enhancement Suggestions
Maine, Lindsay	2013	MS-ENST	Media Blending: Which Combination is Best for Stormwater Discharge from Scrap Metal Recycling Operations?
Vavricka, Emily	2013	MS-ENST	A Forensic Evaluation of Dry Cleaners: A Case Study in Santa Ana, California
Cadaret, Erik	2012	BS	Hydrogeologic Investigation and Geochemistry Analysis of the Sheep Creek Fans Regional Aquifer, San Bernardino County, CA
Dotzer, Alec	2012	BS	Lithologic Analysis of a Soil Layer at Various Points via a Biosparge Pilot Test at a Contaminant Impacted Site in Coachella Valley, Riverside County, CA
Hoffman, Michael	2012	MS	Hydraulic Tomographic Modeling of the Yorba Linda Water Well Field, Yorba Linda, California
Martin, Allen	2012	MS-ENST	Lower Owens River Project, Recovery: A longitudinal imagery analysis of near river vegetation change along the Owens River, Owens Valley, Inyo County, California
Sickler, Heidi	2012	MS-ENST	Environmental Change in the Wetland Ecosystem of Fish Slough in Bishop, California Derived from Wetland Delineation Methods and Aerial Photography

Xayarath, Van	2012	MS-ENST	Orange County's Water Supply: A preliminary research to convert storm channels to natural bottom streams for basin recharge
Evans, Patrick James	2011	MS-ENST	Desalination in Southern California: The Inevitable wave of the future!
Rimbenieks, Mikaila	2011	MS-ENST	Quantifying Forest Natural Background and Road Sediment Yield in Big Bear Lake, California
Barker, Shelby	2010	MS	An Investigation of the Potential for Surficial Recharge in the Lucerne Valley Groundwater Basin, Mojave Desert, CA
Velarde, John	2009	BS	The Geology of Spring Systems in the Vicinity of White Mountain/Silver Creek, Lucerne Valley, San Bernardino County, California
Carle, Chris	2009	BS	The Phase I Environmental Site Assessment
Luedy, Justin	2008	MS-ENST	Testing the Relationship of Dissolved Metals in Stormwater, Newport Beach, California
Barthel, Peggy	2008	MS	Water Budget and Hydrogeologic Model of Spring Flow at Limestone Hill, Zzyzx Desert Studies Center
Daley, Dale	2008	BS	Subsurface Mapping of the El Mirage Groundwater Barrier, San Bernardino County, California
Monzon, Eric	2008	MS-ENST	Estimating Applied Irrigation for Urban Landscapes in South Coast Southern California, Using Theoretical and Conventional Means
Ebbs, Veva	2008	MS-ENST	Quantification of Sub-Surface Groundwater Flow from Middle Mojave River Valley Basin into the Harper Lake Basin
Kolstad, Kenneth	2007	MS	Analysis of a Steady-State Model: Prediction of Trichloroethylene Vapor Concentration, Using Known Dissolved Phase Concentration
Lizzi, Anthony	2007	MS	Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California
Patschull, Eric	2007	MS	Evidence of a North Projecting Ancient Boulder Thalweg in Latest Quaternary Deposits of the Santa Ana River, Orange County, California
Cruikshank, Michael	2006	BS	Hydrogeological Investigation of an Open Alluvial Basin: Oeste Hydrologic Sub-basin, San Bernardino County, California
Dolmat, Joan	2006	BS	Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting
Hunt, Sean	2006	MS	Artificial Recharge as Possible Causes of Observed Long –Term Change in Transmissivity for the Aquifers of the San Pedro Formation in the Central Basin of the Greater Los Angeles Basin, California
Williams, Steve	2006	MS	Hydrogeologic Investigation of a Shallow Aquifer System with Emphasis on Precipitation Induced Groundwater
Surko, Tammy	2006	MS	Gravity survey of Lucerne Valley, San Bernardino County, Mojave Desert, southern California: implications for basin geometry and structure
Blazevic, Mike	2005	BS	Hydrogeological Investigation of a Closed Alluvial Basin: Lucerne Valley, San Bernardino County, California
Napoli, Nick	2005	BS	Change in Groundwater Storage in the Lucerne Valley Groundwater Sub-Basin — 1954 To 2002, Lucerne Valley, California
Nguyen, Chinh	2005	MS-ENST	Application of Convex Hull in Identifying Pollution Sources in the Central and West Coast Basins, Los Angeles County, California
Brendle, Christine	2004	BS	Remediation of Soil and Groundwater at a Former Service Station

Hajmanouchehri, Daneh	2004	MS-ENST	Water Quality in Relation to Watershed Management in The Lower San Gabriel River, Southern California
McCurdy, Jim	2004	MS-ENST	Water Chemistry and Groundwater Flow for the San Bernardino Mountains
Versluis, Patrick	2004	MS-ENST	The Fate of Perchlorate: A Look at Perchlorate Entering Orange County's Groundwater
Yuen, Pansy	2004	MS-ENST	Performance Assessment on Water Quality and Biological Effects of Urban Stormwater Runoff, Norco Hills Wetland, Riverside County, California
Evans, Rachel	2003	BS	Water Quality Analysis – Yellowstone National Park
Figueroa, Otto	2003	MS	Groundwater Flow Model of a Coastal Aquifer, Malibu, California
Hasegawa, Shuichi	2003	MS-ENST	Environmental Hazard Risk Assessment on Water Resources along the Santa Ana River
Kerza-Kwiatecki, Paul	2003	MS-ENST	Monitoring the Rocky Inter-Tidal Zone of Crystal Cove State Park; Creation of an interactive GIS bio-database
Springer, Ben	2003	MS-ENST	The Importance of Wetland Monitoring: A Case Study of a Restored Wetland in Norco, California
Thomas, Sean	2003	BS	Dewatering Plan for the El Toro Area
DeKraker, Dan	2003	BS	Development of a Ninth Grade Earth Science Course
Brand, Randy	2002	BS	Hydrogeologic and Geologic Considerations for Selected sites near the Santa Margarita, Upper Ysidora, and Lower Ysidora Groundwater Basins in Southern California
Figueroa, Otto	2002	BS	Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California
Rosales, Tom	2002	MS-ENST	An examination of the benefits and costs to implement the Municipal Storm Water Permit for Orange County – similarities and differences between coastal and inland cities
Schmucker, Kelly	2002	MS-ENST	Water Quality of a Wetland A Case Study in Norco, CA
Wiles, Steffy	2002	BS	Angels Camp – Gamma Ray Logging Examination and Correlation
Eckhart, Lance	2001	MS-ENST	Vertical Gradient Investigation of a Southern California Landfill
Fields, David	2001	BS	Orange County Groundwater Contour Maps for 2000
Rashidi-Fard, Shaghayegh	2001	BS	Water Quality Testing and Monitoring Program at the Santa Rosa Ecological Reserve
Vortis, Kevin	2001	BS	Geologic History of San Elijo Lagoon San Diego County, California
Mathew Blinstub	2000	MS-ENST	Spatial and Temporal Differences in Surface Water Quality in Newport Bay and San Diego Creek, Orange County, California from 1976 to 1996

SELECTED SHORT-COURSES, WORKSHOPS ATTENDED

- Johnson Screens – Groundwater and Wells
- IGSHPA – Train the Trainer Course
- NGWA – Keeping the Pump Primed, Aquifer Sustainability
- AAPG – Environmental Regulatory Course
- Advanced Technologies for Accelerated Natural Attenuation
- Applied Microbiology – Understanding Bacterial Augmentation, Montreal, Canada
- Baroid Industrial Drilling Products – Drilling and Boring Fluids
- CWEA – How to Start, Perform and Complete a Successful Public Works Water/Wastewater Project
- EPA – Bioremediation of Hazardous Wastes: Research, Development, and Field Evaluations
- EPA – Natural Attenuation; EPA – Statistical Analysis of Ground Water Data (GRITSTAT)
- EPO/GRA – Aquifer Remediation: Bioremediation and Oxidation Technologies
- FEMA – Advanced HAZUS Training for GIS Professionals
- Managing toxics in Michigan – Air, Waste and Remediation
- MGWA & MDPH – Ground Water & Wells Fundamentals
- Michigan Citizens Conference/Workshop on Great Lakes Areas of Concern
- NGWA – Remediation of Ground Water Contamination
- NSF – The Cutting Edge “*Teaching Hydrogeology in the 21st Century*”
- EPA - Protecting Water Quality through Land Use Planning & Zoning
- Reducing Risk in High Seismic Hazard Zones
- Seismic Reflection/Refraction Interpretation

AFFILIATIONS

- California Groundwater Association
- Groundwater Resources Association of California
- International Association of Hydrogeology
- National Ground Water Association
- South Coast Geological Society
- International Ground Source Heat Pump Association
- American Institute of Professional Geologists

VOLUNTEER WORK

- WMU Spring Geobree (2021 – present)
- WMU Alumni Gathering (2019 - present)
- CSUF Alumni Fall Dinner (2013 - present)
- CSUF Geology Research Day (2017 - present)
- Santiago Middle School – Taught Plate Tectonics and Science (2018)
- Science Olympiad Assistant (2013 - 17)
- Elementary School presentations annually: “*The Water Cycle*”
- Little League: Coaching assistant, scorekeeper (2010 – 15)
- CSUF – Gerontology Seminar Series (2005)
- Boy Scouts of America Troop, Identification of Rocks (2000 – 2008)
- NGWA – Developed online Well Construction and Development Course (2004)
- El Dorado Nature Center – Provided expertise for a variety of activities.
- National Sanitary Foundation – Worked on a task force to rewrite standards for water well materials.

Appendix B

1934	Report	Mojave River Investigation - Bulletin No. 47	State of California - Department of Public Works
1993	Appendix	Volume II Appendix A to the judgement (City of Barstow, et. Al. vs. City of Adelanto)	
1996	Report	Ground-water and surface-water relations along the Mojave river, Southern California	U.S. Geological Survey
2001	Report	Simulation of ground-water flow in the Mojave river basin, California	U.S. Geological Survey
8/1/1967	Report	Mojave River Groundwater Basins Investigation Bulletin No 84	DWR
1/1/1996	Report	Relations along the Mojave River USGS WRIR 95-4189	USGS
1/10/1996	Report	Judgement after trial	
10/22/2002	Report	Mojave River Transition Zone Recharge Project - Phase 1 -Transition Zone Hydrogeology -Draft	URS
3/13/2003	Report	Mojave River Transition Zone Recharge Project - Phase 1 -Transition Zone Hydrogeology	URS
10/1/2005	Report	Groundwater flow between basins report - Subareas Mojave River Basin - Centro- Baja Hydrologic	Nicholas Napoli/W. Richard Laton California State University, Fullerton/ Department of Geological Sciences
10/1/2005	Report- Appendix/ Figures	Groundwater flow between basins report - Subareas Mojave River Basin - Centro- Baja Hydrologic (Appendix A, Figure 1-6, Gradient analysis and flow calcs)	
10/29/2008	Report	Rules and regulations of the Mojave basin area watermaster	
1/25/2012	Memorandum	Memo sent to : Watermaster From: Robert C. Wagner Re: Baja Water Supply Issues - Extent of future rampdown in Baja	Mojave Basin Area Watermaster
7/1/2013	Report	Final Report Conceptual Hydrogeological Model and Assessment of Water Supply Demand	Todd Engineers
2/1/2015	Report	Volume 1: Report Baja areawide sustainability plan	TG Solutions
2/24/2015	Presentation	Baja Areawide sustainability plan recap, part 2	
5/1/2018	Report	Twenty-Fourth annual report of the Mojave basin area watermaster - Water year 2016-17	
5/1/2018	Report	Final draft- Twenty -Fourth annual report of the Mojave basin area watermaster - Water Year 2016-2017	
5/1/2018	Appendices	(Appendix A-I	
7/9/2018	Questions	Judge questions	Superior court of the state of California, County of Riverside
7/13/2018	Report	Conceptual Hydrogeologic Model and Assessment of Water Supply and Demand for the Centro and Baja Management Subareas Mojave River Groundwater Basin	Todd Engineers
9/26/2018	List	Mojave basin area watermaster owners address list	
2/28/2024	Report	Mojave Basin Area Waermaster Appendix A Alto & Centro Subarea Water Supply Update	Wagner & Bonsignore Engineers
2/28/2024	Report	Mojave Basin Area Waermaster Appendix B Transition Zone Subarea Water Supply Update	
9/6/2024	Declartion	Declaration of Toby B. Moore In Support of Golden State Water Company	
9/6/2024	Declartion	Declaration of Toby B. Moore In Support of Golden State Water Company	
9/6/2024	Expert Report	Hydrologic Conditions and Water Flow Between the Alto Subarea and the Centro Subarea of the Mojave Basin	Aquilogic
9/30/2024	Declartion	Declaration of Antony Brown in Support of Golden State Water Company	
1995-2017	Reports	Watermaster Report for Water Year 1993-94; 1993-94; 1994-95; 1995-96; 1996-97; 1997-98; 1998-99; 1999-00; 2000-01; 2001-02; 2002-203; 2003-04; 2004-05; 2005-06; 2006-07; 2007-08; 2008-09;2009-10; 2010-11; 2011-12; 2012-13; 2013-14; 2014-15; 2015-16; 2016-17, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023	
2016-2017	Appendix	Appendix B - Producer replacement water and makeup water obligations and assessment fur foe 2016-17	
2020-2021	Report	Fiscal Year 2020-21 Annual Budget	Mojave Water Agency
Date	Type	Title	Consultant
N/A	Budgets	Water budgets and flow budgets	
N/A		NSRLA Statement on Ramp-down in Baja	
N/A		NSRLA statement on Ramp-down (draft)	

Appendix C

COPY

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SUPERIOR COURT OF CALIFORNIA
COUNTY OF RIVERSIDE

OCT 01 2018

D. Williams

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2 **Attorney at Law**
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4 Apple Valley, CA 92307
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7
8
9 Attorney for Plaintiff, NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION

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

12 CITY OF BARSTOW, et al.
13 Plaintiffs,
14 vs.
15 CITY OF ADELANTO, et al.
16 Defendants,
17 AND RELATED CROSS-ACTIONS

CASE NO: CIV 208568

DECLARATION OF DR. W. RICHARD
LATON, PG, Chg - SUPPLEMENTING
THE RESPONSE OF NEWBERRY
SPRINGS RECREATIONAL LAKES
ASSOCIATION TO THE STATUS
CONFERENCE ORDER OF JULY 9,
2018.

Hearing Information:
Date: October 12 2018
Time: 1:30 PM
Dept: 5
Before the Hon. Craig G. Riemer, Judge

18
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21
22 DECLARATION FOLLOWS NEXT PAGE.
23
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28

1 I, W. Richard Laton, declare as follows:

2 1. I am the Principal Hydrogeologist and President/Owner of Earth Forensics, Inc. I
3 am an expert in the field of geology, hydrology, hydrogeology, environmental contamination,
4 and contaminated site investigations. I possess extensive knowledge and experience in the areas
5 of hydrogeology, soil and water contamination, water quality, corrective action, hydrology and
6 surface water, site assessment, site investigation, site remediation, wetlands, coastal
7 monitoring/geomorphology, environmental field sampling techniques and well hydraulics, waste
8 management, as well as environmental remote sensing, aerial photographic
9 interpretation/analysis and geographical information system (GIS). See Appendix A: CV.
10
11

12 2. My educational background that relates to this case is as follows: 1997 – Ph.D. in
13 Hydrogeology, Western Michigan University; 1992 – M.S. in Environmental Earth Science,
14 Western Michigan University; 1989 – B.S. in Earth Science, St. Cloud State University,
15 Minnesota.
16

17 3. I am a licensed Professional Geologist in California, Alaska, Arizona, Illinois,
18 Indiana, Florida, Minnesota, Oregon, Pennsylvania, Texas and Washington. I am also a licensed
19 Professional Hydrogeologist in both California and Washington. I am a Certified Professional
20 Geologist with the American Institute of Professional Geologist as well as Certified Professional
21 geologist for the European Union.
22

23 4. I am currently an Associate Professor of Hydrogeology in the Department of
24 Geological Sciences, California State University, Fullerton, California. This is a continuation of
25 a career that includes years of teaching, consulting, litigation support and management
26 experience. My course topics encompass hydrogeology, water quality, environmental sampling,
27 groundwater modeling, well hydraulics, remediation technologies, RCRA/CERCLA compliance,
28

1 meteorology, oceanography, geology, drilling and well construction, field hydrogeology,
2 borehole and surface geophysics.

3 5. I have worked both as a consultant and researcher within the Mojave River area.
4 This includes research conducted for and on the behalf of the Mojave Water Agency, in
5 developing conceptual basin models and both geological and hydrogeological mapping. My
6 work was pursuant to specific assignments and projects, resulting in reports, most of which were
7 grant-funded and related solely to the specific purpose of the study. Additional work was
8 performed for the Agency in determining the groundwater flow between basins and what if any
9 changes had taken place at the time of the studies. This overall research resulted in no less than
10 16 public reports, 18+ presentations and 12+ theses. Consulting efforts have included the
11 evaluation of blowing sand, mountain front recharge and surface flow as well as specific site
12 evaluations for water resource supply.
13
14

15 6. I reviewed the 1996 Judgement after Trial and the following sections and
16 statements are what I believe to be the most relevant to the issues addressed in this declaration.
17

- 18 • Paragraph 3 Need for a Declaration of Rights and Obligation for Physical
19 Solution Pages 5-7;

20 *"Such Physical Solution requires the definition of the individual rights of*
21 *all Producers within the Basin Area in a manner which will equitably*
22 *allocate the natural water supplies and which will provide for equitable*
23 *sharing of costs for Supplemental Water." Page 6*
24

- 25 • Paragraph 9 MWA obligations Pages 17-19;
- 26
27
28

1 *"The Physical Solution is intended to provide for delivery and equitable*
2 *distribution to the respective Subareas by MWA of the best quality of*
3 *Supplemental" Page 17*

- 4 • Paragraph 10 Priority and determination of production rights Pages 19-21;

5 *"The Declaration of Water Rights that is part of the judgment and the*
6 *Physical Solution decreed herein takes into consideration the competing*
7 *priorities which have been asserted in addition to the equitable principles*
8 *applicable to apportionment of water in this situation." Page 19*

9 *"b. All Producers have contributed to the Overdraft;" Page 20*

- 10 • Paragraph 11 Exercise of Carry Over Rights Page 21;

11 *The first water Produced by a Producer during any Year shall be deemed*
12 *to be an exercise of any Carry Over Right. Page 21*

- 13 • Paragraph 13 Declaration of Subarea Rights and Obligations Pages 21-22;

14 *Producers within certain Subareas have rights, as against those in*
15 *adjoining upstream Subareas, to receive average Annual water supplies*
16 *and, in any one Year, to receive minimum Annual water supplies equal to*
17 *the amounts set forth in Exhibit "G", in addition to any Storm Flows*

- 18 • Paragraph 20: Purpose and Objective;

19 *The Court hereby declares and decrees that the Physical Solution herein*
20 *contained: 1) is a fair and equitable basis for satisfaction of all water*
21 *rights in the Mojave Basin Area; 2) is in furtherance of the mandate of the*
22 *State Constitution and the water policy of the State of California; and 3)*

1 *takes into account applicable public trust interests; and therefore adopts*
2 *and orders the Parties to comply with the Physical Solution.*

- 3 • Paragraph 21: Need for Flexibility;

4 *It is essential that this Physical Solution provide maximum flexibility and*
5 *adaptability in order that the Court may be free to use existing and future*
6 *technological, social, institutional and economic options in order to*
7 *maximize reasonable beneficial use of the waters of the Basin Area. To*
8 *that end, the Court's retained jurisdiction may be utilized where*
9 *appropriate, to supplement the Physical Solution.*

10 *For a complete list of sited documents see Appendix B.*

11
12
13 7. I have been asked and retained by Newberry Springs Recreational Lake
14 Association (NSRLA) for the purpose of providing opinions (recommendation) on the following
15 issues affecting the Baja groundwater subarea:

- 16 a. A detailed water budget for Baja subarea;
17
18 b. Groundwater production in upstream basins and its effects on the Baja
19 subarea;
20
21 c. Surface and groundwater inflows from the Centro subarea to the Baja
22 subarea; and
23
24 d. Free Production Allowance (FPA) estimates and effects on Mojave
25 Watermaster's decision to ramp-down production in the Baja subarea
(Figure 1: Baja Subarea Ramp-down Percentages).

26 8. I am familiar with and have read the public documents and studies related to the
27 Mojave River Adjudication, including the stipulated judgment, the amendments thereto and the
28

1 various annual Watermaster Reports. As a result, thereof, I am aware that the various
2 stakeholders of the Mojave River Basin subareas stipulated to the entry of a Judgment in 1998,
3 adjudicating water rights to landowners. The Judgment was implemented to address water
4 supply shortages and a declining groundwater level throughout the various Mojave Basins.

5
6 9. The procedures to manage the groundwater subareas were first developed by the
7 Mojave Water Agency (Initial Watermaster). This included the evaluation of whether or not the
8 specific groundwater subareas were being over-drafted (water levels going down with time, thus
9 a reduction in overall groundwater storage).

10
11 10. The adjudicational procedures developed by the Watermaster in my opinion
12 heavily benefit upstream subareas over those downstream. Deficiencies and over simplifications
13 of subarea water budgets are carried downstream to the last subarea, thus Baja is left holding an
14 empty bucket.

15
16 11. The Mojave River groundwater is divided into five subareas. The Baja subarea is
17 the most downstream basin of the Mojave River that is within the Adjudication.

18
19 12. In order to maintain water balances (stable groundwater levels) within each
20 subarea, the Judgement establishes a Free Production Allowance (FPA) that can be adjusted
21 depending on the state of the basin. Subareas can pump up to this FPA without having to pay for
22 replacement water. The Production Safe Yield (PSY) for each basin is the amount of water that
23 can be withdrawn from the subarea without significant drop in water levels. The Watermaster
24 calculates both FPA and PSY for each subarea, under the Judgment if the FPA exceeds the PSY
25 by 5% the Watermaster is supposed to provide a recommendation to ramp-down the FPA by a
26 full 5% of the of the aggregate Base Annual Production (BAP) (Watermaster, 2018).

1 **GROUNDWATER ANALYSIS**

2 13. The Watermaster has been using groundwater levels as a means of estimating the
3 levels of groundwater basin storage, even though this particular procedure is not specifically
4 called out in nor recommended in the Judgement. The procedure is an indicator of change in
5 groundwater storage but used alone, may not provide accurate data. This negative change in
6 water levels within the groundwater basin is what the Watermaster has been using to determine
7 ramp-down recommendations, which may ultimately result in inconsistent or inequitable ramp-
8 down requirements being impose on the various subareas.
9

10 14. For several years FPA has exceeded PSY by more than 5% in Centro and other
11 upstream subareas, and annual ramp-downs should have been recommended for those subareas.
12 However, groundwater levels have remained relatively stable since the early 1990s and thus
13 storage has remained stable. Most groundwater data in Centro subarea begins in early 1990s,
14 and groundwater levels have remained stable for the most part during this period. Notably, all
15 other subareas are measured in a 60-year period not just from the early 1990's as Centro subarea
16 has been measured. However, if historical data is considered, groundwater levels indicate the
17 Centro subarea has suffered about 25-foot decline since 1960. The outflow numbers currently
18 being used by the Watermaster for Centro to Baja subareas are based upon the 60-year average,
19 which are much higher than current conditions, and thus the number being utilized is seriously
20 inflated when compared to actual water outflow from Centro to Baja subarea.
21
22

23 15. The Watermaster's use of groundwater data within the Centro subarea began in
24 the early 1990's to present (~25 years of data). This contrasts with evaluating the water levels
25 within the Centro subarea to much early data (pre-1950s) that places the groundwater levels
26 within the subarea, some 25 feet higher than in the 1990s. Again, notably, all other subareas
27
28

1 have been measured from the earlier dates. In essence, Centro subarea's data compared to the
2 other subareas is like comparing apples to oranges and not apples to apples.

3 16. In the 2016-17 water year, Centro subarea's FPA exceeded the PSY by 15.2% and
4 no ramp-down was recommended (Watermaster 2018). In the same water year, Este and Oeste
5 subareas FPA exceeded the PSY by 45.6% and 23.6% respectively and no ramp-down was
6 recommended. If upper groundwater subareas in the Mojave River area were ramped down
7 according as the Judgment called out for - more underflow (groundwater) would have reached
8 the Baja subarea. By not following the stipulations within the Judgment for ramp-down within
9 the upper subareas has thus caused damage to the Baja subarea. As calculated in the 2016-17
10 annual water master report, this has resulted in the loss of 408,000 acre-feet (AF) of water to the
11 Baja subarea over the life of the adjudication or 18,545 acre-feet annually (AFY) (Watermaster
12 2018).
13
14

15 17. In simpler words, Centro subarea is like a bathtub, and is expected, when filled
16 to the required brim, to spillover water which then flows into the Baja subarea. The adjudication
17 put Centro's "brim", some 25 feet lower than other comparable subarea. Thus, Centro subarea
18 will never meet the projected outflow to the Baja subarea, because the water in the current
19 bathtub will never reach spillover levels using the 1990 numbers. The lowered brim creates the
20 illusion of Centro subarea being in balance and sending the required outflow to the Baja subarea,
21 when in fact, the water never spills over to flow downstream, resulting in the loss of subsurface
22 flow that should have flowed annually to the Baja subarea.
23
24

25 **RAMP-DOWN NEEDS**

26 18. Groundwater modeling by the United States Geological Survey (USGS) has
27 shown that groundwater pumping in upstream subareas has a substantial impact on storage
28

1 downstream in the Baja subarea. The USGS team, headed by Stamos et al, modeled this in 2001
2 (Stamos et al., 2001) and Todd Engineering discuss this in their Conceptual Hydrologic Model
3 Report on Page 5-30 and 5-31 (Todd, 2013). Todd Engineering state the following:

4 *“Based on simulations with the USGS model, upper basin pumping (not including*
5 *Centro) was estimated to account for about 21 percent of groundwater lost from storage*
6 *in the Baja Subarea over the base period (1931 to 1990). The USGS did not simulate the*
7 *effect of upstream pumping in Centro on stream discharge and recharge in Baja.”*

9 19. Ramping down groundwater production within the Baja subarea without first
10 ramping down other upstream subareas will have minimal effect on stabilizing the overdraft
11 conditions being observed within the Baja subarea. In all fairness, the upstream subareas already
12 have PSY that is exceeding the FPA, thus should be ramped down **FIRST**.

14 20. Since 1993, the average verified production in the Baja subarea has been
15 approximately 32,000 AFY. On average about 13,500 AFY has been annually recharged into the
16 Baja subarea. On average during the same time frame the basin has lost about 18,500 AFY
17 (Watermaster, 2018, Para. 15 & 16 of this declaration).

19 21. Due to current ramp-downs, the recent verified production has decreased to
20 23,691 AF for the 2016-2017 water year in the Baja subarea as it strives to remain in compliance
21 with the Judgment. Even with the existing ramp-down during the 2016-2017 water year, the
22 Watermaster has calculated an additional storage loss of 23,600 AF to the Baja subarea
23 (Watermaster, 2017 and Watermaster, 2018).

25 **SURFACE WATER FLOW**

26 22. The values used by the Watermaster to estimate the PSY are in my opinion an
27 overestimation. The largest unverified input is surface water inflow from the Centro subarea to
28

1 the Baja subarea. Currently, the Watermaster uses 16,406 AFY (average inflow 1931-1990) as
2 inflow into the subarea, however when actual surface flow records from the USGS stream gage
3 are used, only approximately 7,158 AFY of flow exists since the 1993-94 water year. This has
4 led to an over estimation of inflow (recharge) of about 9,000 AFY. Since this value is tied to the
5 PSY, this overestimation has led to further overdraft of the Baja subarea.
6

7 23. The 9,000 AFY surface flow deficiency is a function of the period and magnitude
8 of storm events that generate enough flow to reach the Baja subarea (see Figure 2: Barstow Gage
9 Flow). The historical stream flow records indicated about a 10 to 13-year reoccurrence between
10 significant recharge events. The last significant recharge event where large amounts flowed into
11 Baja subarea occurred in the 2004-2005 water year. Surface water flows into the subarea are not
12 affected nor tied to groundwater production in the Baja subarea. It is however tied to upstream
13 production in the up-gradient subareas (Stamos et al., 2001) and groundwater levels within the
14 Centro subarea. The total equivalent storage loss since 1993 due to unrealized surface water
15 flows into the Baja subarea are 225,000 AF.
16

17 **Water Budget and Ramp-down Analysis (without Afton Canyon)**

18
19 24. Using the USGS estimate of 21% loss of storage due to upstream pumping, we
20 calculate a loss of 92,750 AF for the 25 years since 1993-94 water year or 3,710 AFY. This
21 unaccounted overdraft is based on loss of storage during the base period (1931-1990) and
22 projected forward into the adjudication period. **These losses were unaccounted for in the**
23 **Watermaster initial calculations.**
24

25 25. To summarize due to the historical distribution of storm events that lead to storm
26 flows that ultimately flow into the Baja subarea and the overestimated calculation by the
27 Watermaster of about 225,000 AF of flow have not been realized and thus have contributed to
28

1 the basin overdraft. Additionally, the Watermaster did not consider effects of pumping in up-
2 gradient subareas which as the USGS modeled were contributing to a 21% loss of storage during
3 the base period (1931-1990). This was not even recognized by the Watermaster until the
4 publishing of the USGS model and Todd Engineers report of 2013 report. To date, this has not
5 been evaluated nor included in the Watermaster's calculations for water budgets. This storage
6 loss which was occurring during the base period and has continued into the Judgment period.
7

8 26. Beginning in 1993-94 water year through 2016-2017 water year, I estimate an
9 average annual inflow into Baja subarea of 9,044 AF. This is based on the following (see Table
10 1a):

- 11 a) Averaged inflow (Mojave river flow) across the Waterman Fault of 7,158 AF
12 (Para. 22 of this declaration);
- 13 b) Additional inflow estimates taken from Table 5-2 from 2016-17 Watermaster
14 Annual report for surface water inflow (other ungagged), subsurface inflow, and
15 deep percolation of precipitation, totaling of 1,886 AF; and,
16
- 17 c) If **NO additional rainfall** the averaged inflow will continue to decrease until a
18 recharge event (significant enough rainfall event to produce surface water flow
19 into Baja subarea).
20

21 27. I calculated an additional unrealized potential input totaling 8,564 AFY after
22 taking into account that a large recharge events occur on average every 11 to 13-years (Table
23 1a). The calculated values are based on the following;

- 24 a. A total 4,854 AFY of potential input from a large recharge event is
25 anticipated based on the reoccurrence of large recharge events of 10 to 13-
26 years. Historically, the large recharge events occurred in the following
27
28

1 water years; 1968-69, 1979-80, 1992-93, 2004-05). Prior to 1968, there
2 had been a drought and a relative wet period extending back to 1930's. To
3 be conservative, only the most recent data from 1968 on was used. This
4 included only the four large events that were averaged. As soon as a
5 recharge event occurs this value will remain constant and can be applied
6 over the following 15-years as the water budget input or until the next
7 subsequent large recharge event occurs. These values do not account for
8 any loss to Afton Canyon.
9

- 10 b. As discussed in (Para. 24 of this declaration), a 92,750 AF loss has
11 occurred since the Judgment solely due to pumping in up-gradient
12 subareas. This equates to an annual loss of 3,710 AFY which should be
13 replenished.
14

15 28. Water Budget Summarized Findings (not including any losses to Afton Canyon).

- 16 a. Based upon the average annual recharge, plus the unrealized potential
17 excess surface water and replaced water from up-gradient pumpers; the
18 following annual budget was calculated to be approximately, 16,374 to
19 17,608 AFY, depending on when the recharge event occurs, and up-
20 gradient pumping losses replaced;
21
22 b. Table 1b is a summary of several ramp-down scenarios and tabulates
23 ramp-down FPA that:
24
25 i. are below the total recharge or "*sustainable*",
26 ii. exceed total recharge or in "*overdraft*";
27
28

- 1 c. Verified pumping in 2016-17 was 23,691 and 2017-2018 should be lower
2 depending on carryover use; and,
- 3 d. The difference between the verified production (groundwater pumping)
4 and annual recharge is approximately 6,000 to 7,000 AFY, which can be
5 potentially made-up with the solutions provided below.
6

7 **(Water Budget and Ramp-down Analysis (including Afton Canyon)**

8 29. Beginning in 1993-94 water year through 2016-2017 water year, I estimate an
9 average annual inflow into the Baja subarea of 9,044 AF (see Table 2a). See Para 26 in this
10 declaration.

11 30. I calculated an additional unrealized potential input totaling 8,887 AFY by taking
12 into account that a large recharge events occur on average every 11 to 13-years and that the Baja
13 subarea has been subjected to a storage loss of 3,710 AFY due to pumping in other subareas and
14 should be replenished (see para 24 for details) (Table 2a). The calculated values are based on the
15 following:
16

- 17
- 18 a. Larger than expected recharge events have previously occurred. As soon
19 as a recharge event occurs this value will remain constant and can be
20 applied over the following 15-years or until the next subsequent large
21 recharge event;
- 22 b. During these larger than expected recharge events the average flow into
23 the Baja subarea was approximately, 133,305 AF. The average total
24 surface outflow to Afton Canyon was approximately, 62,663 AF during
25 these events. Leaving a total of 70,642 AF flows for recharge into the
26 Baja subarea. Based upon the Judgement, an annual flow of only 400
27
28

1 AFY is required to flow to Afton Canyon. This leaves an opportunity to
2 help the Baja subarea, by better managing the excess surface water flow as
3 it comes through the subarea. Meaning, that approximately, 56,000 AF
4 could be recharged into the Baja subarea, rather than be lost downstream
5 to Afton Canyon. Several examples of how this can be done are; along
6 the Mojave River employ several detention basins, rubber dams or other
7 mechanisms to allow rapid infiltration into the subsurface. This lost
8 discharges to Afton Canyon along with what would have been recharged
9 naturally, equates to approximately, 8,887 AFY averaged annual recharge
10 over a 15-year period;

- 11
- 12
- 13 c. This additional unrealized recharge could be used to offset the declining
14 groundwater levels within the Baja subarea and thus decrease the existing
15 overdraft. This brings the basin closer to being into a sustainable system;
16 and,
17
- 18 d. As discussed in (Para. 24 of this declaration) 92,750 AF loss since the
19 Judgment due to pumping in upgrading subareas. This equates to an
20 annual loss of 3,710 AFY, which should be replenished by the up-gradient
21 pumbers.

22

23 31. Water Budget Summarized Findings (including recharge potential which is
24 currently lost to Afton Canyon).

- 25 a. Baja subarea captures the excess surface low of 56,000 AF, rather than
26 allowing it to flow out to Afton Canyon.
- 27
- 28

- 1 b. Based upon the average annual recharge, plus the unrealized potential
2 excess surface water and replaced water from up-gradient pumpers; the
3 following annual budget was calculated to be approximately, 20,407 to
4 21,641 AFY, depending on when the recharge event occurs, and up-
5 gradient pumping losses replaced;
6
7 c. Verified pumping in 2016-17 was 23,691 and 2017-2018 should be lower
8 depending on carryover use;
9
10 d. Table 1b is a summary of several ramp-down scenarios and tabulates
11 ramp-down FPA that:
12 i. are below the total recharge or "*sustainable*";
13 ii. exceed total recharge or in "*overdraft*", and
14
15 e. The difference between the verified production (groundwater pumping)
16 and annual recharge is approximately, 2,000 to 3,000 AFY, which can be
17 potentially be made-up with the solutions provided below.

18 **POTENTIAL MITIGATION**

19 32. In my professional opinion other solutions need to be considered in order to
20 minimize the overdraft in the Baja subarea and mitigate some of the inequitable assessments that
21 currently affect the Baja subarea. Such solutions that should be considered are:

- 22 a. Ramp-down of upstream subareas that have been exceeding the FPA or
23 increase artificial recharge to account for this loss due to upstream
24 groundwater production which has been benefiting upstream subareas
25 since implementation of Judgement.
26
27
28

1 b. Provide make-up water for the historical loss of groundwater to the Baja
2 subarea due to upstream users. Over the past 25 years since the
3 Judgement, upstream water users have short-changed the Baja subarea
4 some 92,750 AF. If this water is made-up for by providing recharge
5 waters to the Baja subarea, this will help offset the existing overdraft.

6
7 c. Differential ramp-down rates on water use types (municipal, agriculture,
8 domestic, etc.) within the subarea, could have a greater effect on
9 groundwater production than that of a single rate ramp-down for all users.
10 Production values in Appendix B of the Watermaster's 2016-2017 annual
11 report (Watermaster, 2018) and Mojave Basin Watermaster Owners
12 Address List – Baja of 2018 (MWA, 2018). Based upon the last
13 documented water year agriculture users accounted for 67 percent of
14 allotted BAP and 80 percent of the total groundwater production. It is
15 obvious that ramping down the agriculture users more than that of others
16 will generate the greatest impacts to the overall subarea water budget.
17 This would also have the least effect on domestic and recreational lake
18 users. Differential ramp-downs are currently being implemented within
19 the Alto and Oeste subareas (Watermaster 2018, page 35).

20 d. In order to capture and recharge the excess water the currently flows to
21 Afton Canyon during large events the following are examples of how this
22 can have achieved

23 i. employ detention basins along the Mojave river

24 ii. employ rubber dams or
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- iii. other mechanisms to allow rapid infiltration into the subsurface.
 - iv. Elimination of tamarisk upstream of Baja Subarea
 - v. Reevaluate all upstream barriers to surface water flow to the Baja subarea – including potential upstream channelization
 - vi. Install flow meters on all Baja subarea producers
 - vii. Wastewater reuse
- e. Limits or ramp-down on carryover rights needs to be addressed. Carryover transfers should generally not be allowed. Carryover should at a minimum stay with the property for which it originates. I believe that this was generally addressed previously by Judge Kaiser in December of 2005 (City of Barstow et al. v City of Adelanto et al.), *“Carryover may be used on the land(s) where it originates, only by the current producer. Carryover can be accrued for two years. All existing and current producers of recirculated water (referred to as the “Recreational Lakes), in the Baja Subarea as defined in the Judgement and identified shall continue to have the right under Paragraph 34 of the Judgement and Exhibit “F” of the Judgement to purchase any Carryover Right or portion thereof to Recreational Lakes as provided in the Judgement.”* Another aspect of carryover rights to be reconsidered is in which order the carryover allotments need to be applied; currently carryover rights are applied first prior to the current years allotment. It would be reasonable to reverse this to allow for current year allotment to be consumed prior to any carryover right being used.

1 **CONCLUDING REMARKS**

2 In 2001, the USGS stated that *“Overall, pumping in the lower region does not*
3 *negatively affect the upper region: however, pumping in the upper region negatively affects*
4 *the lower region by decreasing recharge from the Mojave River.”* (Stamos et al., 2001). This
5 also extends to any FPA ramp-down; ramp-down in the Baja subarea has no impact on
6 upgradient subareas. However, any and all ramp downs of upgradient subareas or lack
7 thereof has a direct impact on the Baja subarea. Any deficiencies in water budget
8 calculations (i.e. FPA, PSY) in upgradient subareas will be propagated downgradient.
9

10 This declaration sets forth my opinions and the information upon which I relied.

11 I declare under penalty of perjury of the laws of the State of California that the foregoing
12 is true and correct and that I have executed this declaration on the 28th day of September 2018, at
13 Santa Ana, California.
14

15 

16
17
18 **Dr. W. Richard Laton, PG, CHg**
19 President of Earth Forensics, Inc.
20 Principal Consultant, Hydrogeology
By Fax – Cal. Rules of Court, Rule 2.304
21
22
23
24
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Appendix B- References Cited

- Mojave Water Agency (MWA), 2018. Mojave Basin Area Watermaster owners address list.
Acquired September 26, 2018.
- Riverside County Superior Court, 1996. Judgment after trial- Mojave Basin Area adjudication.
. City of Barstow, et. Al v. City of Adelanto, et al. January 10.
- Stamos, C.L., et al., 2001. Simulation of ground-water flow in the Mojave River Basin,
California. *U.S. Geological Survey*.
- Todd Engineers (Todd), 2013. Conceptual hydrogeologic model and assessment of water supply
and demand for the Centro and Baja management subareas Mojave River Groundwater
Basin. July.
- Watermaster, 2017. Twenty-third annual report of the Mojave Basin Area Watermaster for water
year 2015-16. May 1.
- Watermaster, 2018. Twenty-fourth annual report of the Mojave Basin Area Watermaster for
water year 2016-2017. May 1.

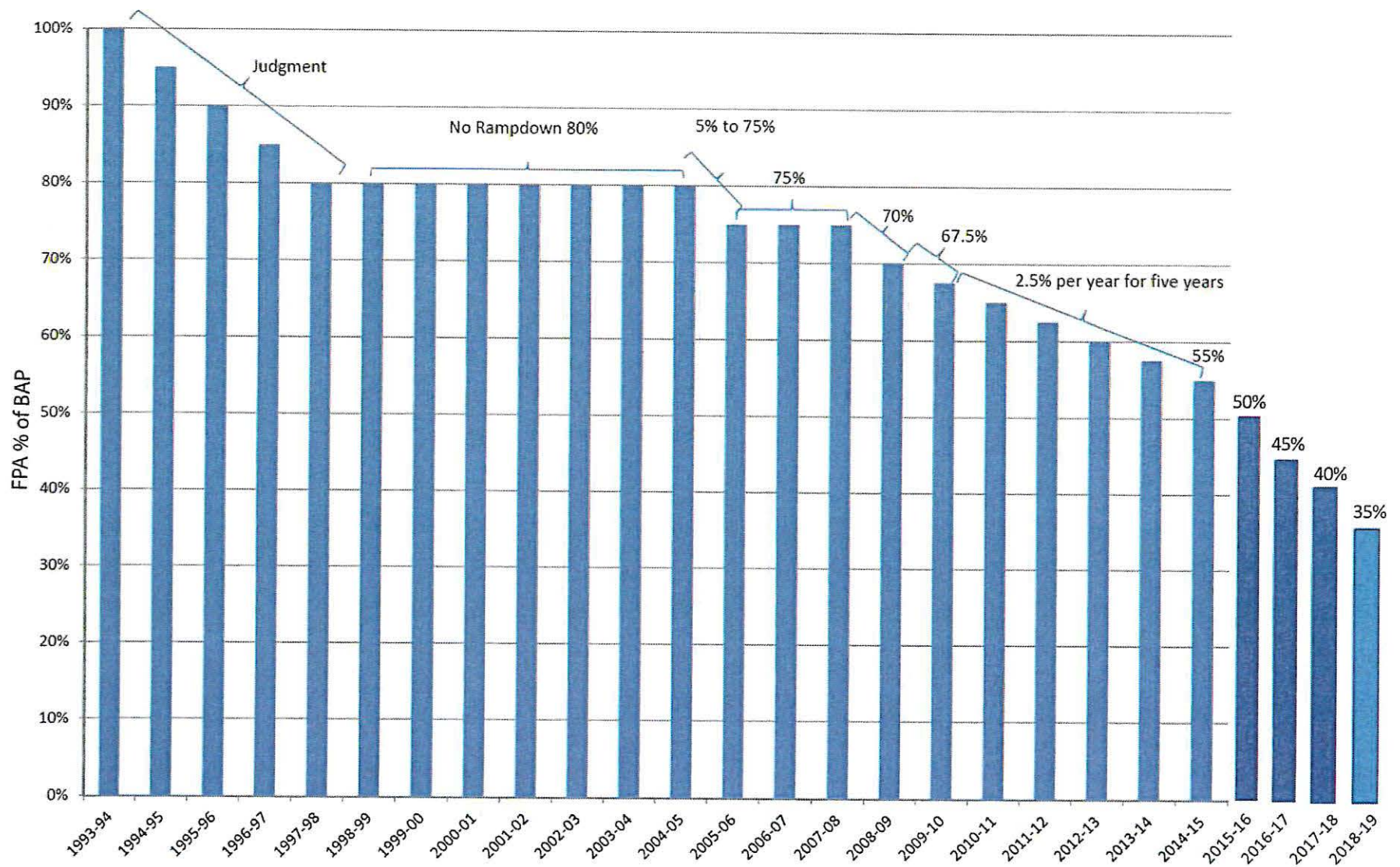


Figure 1: Baja Subarea Rampdown Percentages

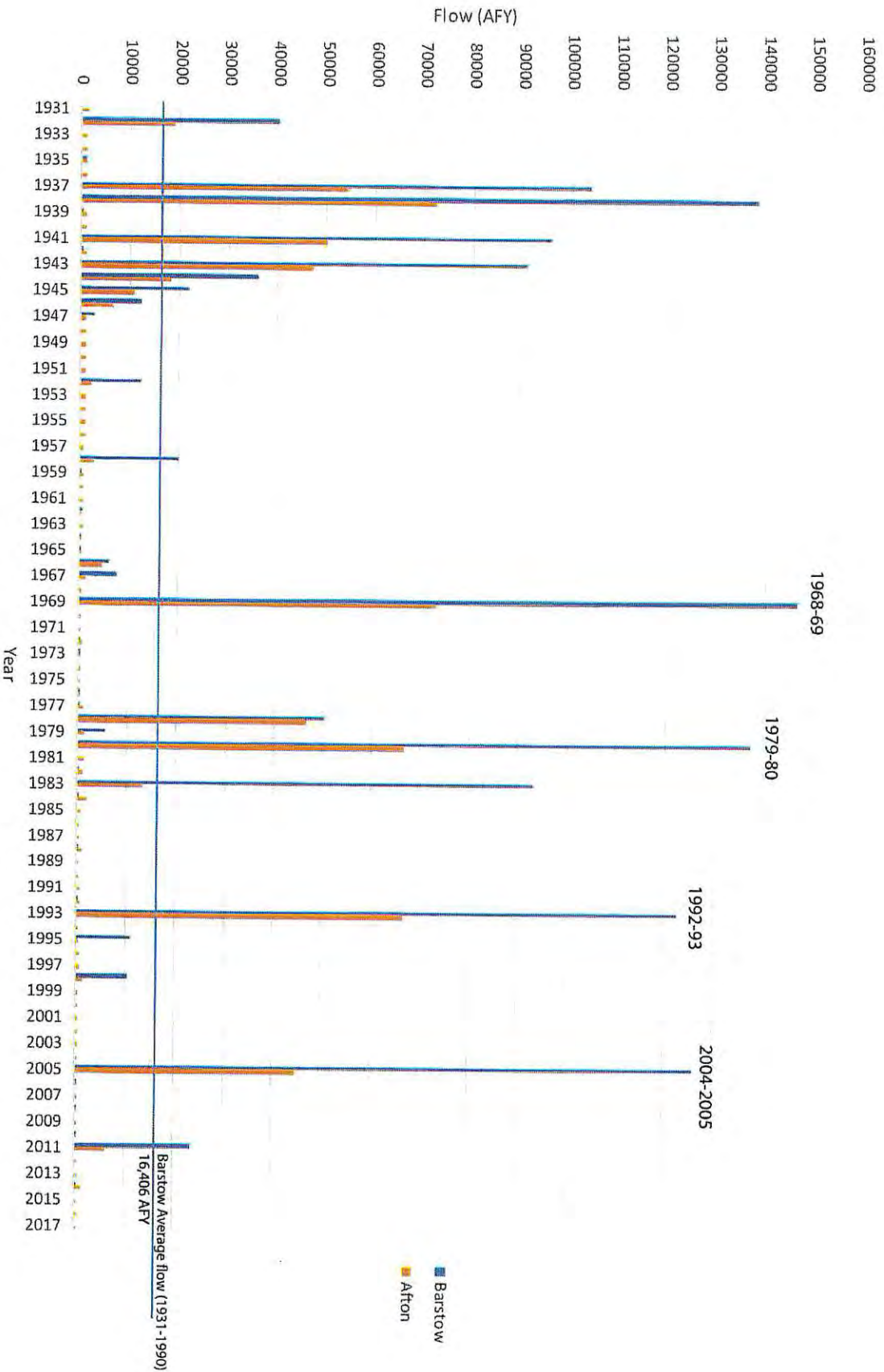


Figure 2: Barstow Gage Flow



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VITAE

EDUCATION

- Ph.D. (1997), Geology with an emphasis in Hydrogeology, Western Michigan University
Groundwater – Kalamazoo River Interaction near the Parchment City Well Field, Parchment, Michigan.
- M.S. (1992), Environmental Earth Science (Coastal Geomorphology), Western Michigan University
Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping.
- B.S. (1989), Earth Science (Oceanography), Saint Cloud State University, Minnesota
Density Flow Analysis of Turbidity Currents.

PROFESSIONAL SUMMARY

Dr. Laton is an expert in the field of geology/hydrology/hydrogeology. He is currently an Associate Professor of Hydrogeology in the Department of Geological Sciences, California State University, Fullerton and the prestigious 2014 Ross Oliver award winner. This is a continuation of a career that includes years of teaching, consulting, litigation support and management experience. Dr. Laton possesses extensive knowledge in the areas of hydrogeology, soil and water contamination, hydrology and surface water, wetlands, coastal monitoring/geomorphology, field sampling techniques and well hydraulics-well design as well as environmental remote sensing/GIS. His classes at the university encompass topics including: water quality, environmental sampling, groundwater modeling, well hydraulics, oceanography, and basic geology. He enjoys introducing students to applied research and acts as the faculty advisor to a large number of upper-level students. He has also acted as a consultant for a numerous companies and agencies that need input on the above subjects as well as natural hazard assessment and mapping.

CERTIFICATIONS

California Professional Geologist (PG-7098)	California Professional Hydrogeologist (CHg-958)
Alaska Professional Geologist (PG-673)	Pennsylvania Professional Geologist (PG-5095)
Arizona Professional Geologist (PG-42253)	Texas Professional Geologist (PG-10018)
Florida Professional Geologist (PG-2618)	Washington Professional Geologist (PG-2517)
Illinois Professional Geologist (196.001370)	Washington Professional Hydrogeologist (CHg-2517)
Indiana Professional Geologist (LPG-2191)	
Minnesota Professional Geologist (PG-44868)	AIPG-Certified Professional Geologist (CPG-10544)
Oregon Professional Geologist (G2153)	European Geologist (N-1128)

SELECTED CONSULTING, RESEARCH, AND EMPLOYMENT EXPERIENCE

Professional Profile

2010 - Present, President of *Earth Forensics Inc.*
1995 - 2010, Partner (Owner Operator) with *Environmental Science & Planning, LLC.*
1998 - 2001 & 2007 - 2012, Senior Consultant with *Earth Consultants International.*
2001 - 2007, Consultant to *Hromadka & Associates.*
1996 - 1998, Senior Hydrogeologist with *SimulProbe Technologies.*

2010 – Present. *Earth Forensics, Inc.* President (www.earthforensics.com)

Project experience includes project management, expert testimony, field work and oversight and training. Clients have included the State of California, various cities, private firms and other consulting companies.

2018

- Portland, OR. Retained as an expert associated with a landslide.
- Los Osos, CA. Hired to develop a RAP associated with BTEX contamination.
- New Mexico. Retained as an expert associated with field drilling operations and well design.
- Houston, TX. Retained as an expert associated with flood damages from Hurricane Harvey (hydrology and meteorology (Plaintiff)).
- Huntington Beach, CA. Retained as an expert on PCE contamination; fate and transport associated with a dry-cleaner (Defense Chan Property v Misak Olgun et al, Case No 30-2018-00984600-CU-PO-CJC).
- Torrance, CA. Retained as an expert on the fate and transport of contamination emanating from refinery operations. Included Declaration and Deposition. (Plaintiff - Goldstein v Exxon Mobil, et al. Case No 2:17-cv-02477-DSF (SKx)).
- Malibu, CA. Hired to perform assessment of potential single-residence groundwater well.
- Los Angeles, CA. Hired to perform Phase II site assessment. Former Dry Cleaners.
- Santa Barbara, CA. Retained as an expert on PCE contamination; fate and transport (Plaintiff).
- Pomona, CA. Retained as a rebuttal expert to provide opinions on hydrogeology, contaminant sources (perchlorate), and historical fertilizer use. Re-Trial. Included Expert Rebuttal Report and Deposition. (Defense – City of Pomona v. SQM North America Corporation – Federal Court)
- Whittier, CA. Hired to review Phase II associated with both residential and commercial property.

2017

- San Diego, CA. Retained as expert in hydrology and meteorology (Defense – Anderson et al v Cortez et al, Case No 37-2016-00004134-CU-BC-CTL).
- Roxboro, NC. Retained as expert in hydrology, hydrogeology and geology. Expert Reports and Deposition (Defense – Roanoke River Basin Association v Duke Energy Progress, LLC Case No 1:16-cv-607 and No 1:17-cv-452)
- Inglewood, CA. Retained to review soil contaminated with arsenic, potential sources.
- Torrance, CA. Hired to review soil, water and soil gas contaminant history of refinery.
- Bakersfield, CA. Hired to review water quality on bottled water plant.
- Santa Barbara, CA. Hired to review contaminant history of former dry cleaner facility.
- Glendale, CA. Hired to perform background research on dry cleaner facility.
- San Jose, CA. Hired to perform Phase II site investigation.
- Bishop, CA. Retained as expert on hydrology and hydrogeology in relation to Round Fire.
- Thousand Palms, CA. Retained as expert on hydrology and geomorphology. (Defense – Hernandez vs. Huth et. al. Case No PSC 1501365)

- Indiana. Retained as expert on well drilling, abandonment and geothermal wells. Includes Expert Report and Deposition. (Defense – Salomon, et. al. vs. Mark Scott Construction, et. al. Case No 2:15-cv-464)
 - Moraga, CA. Hired to review Phase II Soil Vapor Site Investigation.
 - Long Beach, CA. Hired to review Phase II soil and soil vapor site investigation.
 - Huntington Beach, CA. Retained as expert on PCE fate and transport. Deposition (Defense – 17892 Jamestown, et. al. vs. Goldenwest Laundry, et. al. Case No. 30-2014-00705041-CU-NP-CJC)
 - City of Industry, CA. Hired to determine dewatering options, calculate volumes and review disposal options.
 - Lafayette, CA. Hired to review Soil and Groundwater Management Plan.
- 2016**
- San Jose, CA. Hired to review and perform site investigation in association with PCE.
 - Los Angeles, CA. Hired to develop soil and groundwater sampling plans for CalTrans.
 - Malibu, CA. Hired to review groundwater withdrawal impacts on local stream.
 - Malibu, CA. Hired to develop and survey several groundwater monitoring wells.
 - Malibu, CA. Hired to oversee pilot drill holes for City water injection program.
 - Anaheim, CA. Hired to review RI/FS of former dry-cleaning facility.
 - Santa Barbara, CA. Retained as expert on PCE contamination fate and transport. Includes Expert Report, Rebuttal Report and Deposition. (Defense – Goldberg, et. al. vs. Goss-Jewett Company, et. al. Case No. EDCV 14-1872DSF)
 - Malibu, CA. Hired to install several monitoring wells and to rehabilitate an existing well.
- 2015**
- Denver, CO. Retained as expert on water wells and hydraulic fracturing. Includes Expert Report, Rebuttal Report and Deposition. (Defense – Hydro vs. Denver Southeast Suburban Water and Sanitation District et. al. Case No. 201CV30849)
 - Orange County, CA. Retained as expert on groundwater. Includes Deposition. (Defense – Kirk et. al. v Varco, et al. Case No. 30-2010-00423097)
 - Orange County, CA. Hired to review South Coast Water District Desalination Program, specifically the slant intake wells.
 - Malibu, CA. Hired to oversee groundwater issues associated with landslide.
 - Malibu, CA. Hired to install several groundwater monitoring wells in association with WDR permit.
 - Los Angeles, County, CA. Retained to provide expert testimony in regard to well abandonment. (Defense – Golden State Water Company v. General Pump, et. al.)
 - Los Angeles, County, CA. Retained to provide expert geology and hydrogeology testimony. (Defense - C. Donald Albin, et al. v. David Leu, et al. County of Los Angeles Case No. TC027060)
 - Los Angeles, County, CA. EIR review and comments for wastewater plant and disposal.
- 2014**
- Northern California. Phase II Site Investigation.
 - Los Angeles, County, CA. Retained to provide expert rebuttal testimony on regional hydrogeology. Included Expert Rebuttal Report. (Defense – City of Cerritos et al. vs Water Replenishment District of Southern California. – Case No. BS128136)
 - Los Angeles, CA. Hired to collect both seepage water and treated effluent waters.
 - Loma Linda, CA. Retained to provide expert opinion on meteorological analysis (Plaintiff – SoCal Self-Storage – Loma Linda v. City of Loma Linda, et. al. – Case No. CIVDS 1200111)
 - Los Angeles, CA. Hired to review multiple potential responsible parties' case files for Los Angeles Department of Power and Water.

- Malibu, CA. Hired to abandon multiple groundwater monitoring wells.
- San Diego, CA. Retained to provide expert testimony on surface water hydrology, geomorphology and meteorological analysis. (Defense – Jaffe v. Bradshaw and others. – Case No. 37-2011-00055925-CU-PO-NC)

2013

- Lancaster, CA. Hired to peer-review a groundwater model and subsidence issues.
- Malibu, CA. Hired to review wastewater treatment options.
- Malibu, CA. Hired to review and reply to EIR comments as they pertain to wastewater discharge and hydrology, hydrogeology and geology.
- Olivenhain Municipal Water District, CA. Hired to evaluate groundwater resources. Conceptual Water Resource Evaluation.

2012

- Torrance, CA. Retained to provide expert testimony on groundwater seepage. (Defense – Torrance Matrix Center Property Owners Association v. Headlands Realty Corporation, et al. – Case No. BC462023)
- Duncan, OK. Retained to provide expert testimony on fate and transport of perchlorate and other contaminants of concern, geology and hydrogeology. Included Expert Reports, Depositions and Mediation Conferences. (Plaintiff – Alexander, et al. v. Halliburton Company, et al., No. 5:11-cv-01343-M)
- North Central Texas. Hired to evaluate possible causation of potable water well failures.
- San Francisco, CA. Conducted evaluation of contaminated soils for CalTrans.
- Malibu, CA. Hired to conduct groundwater investigation and model of wastewater discharge into the subsurface. Includes the evaluation of ASR wells and groundwater-sea water interaction. Includes the development of both groundwater and surface water sampling protocols for long-term monitoring.
- Malibu, CA. Hired to conduct groundwater investigation for wastewater treatment system upgrade on single family residence.
- Fennville, MI. Retained to provide expert testimony on fate and transport of contaminants of concern, geology and hydrogeology. Included Expert Report and Deposition. (Plaintiff - Barnes, et al. v. Birds Eye Foods - Case No. 1:10-cv-541)
- San Nicolas Island, CA. Developed white paper on the feasibility of deep-well injection of brine.
- Long Beach, CA. Developed calculations of dewatering operations for Gerald Desmond Bridge Replacement Project.
- Malibu, CA. Hired to conduct quarterly and annual groundwater and effluent sampling of commercial property.

2011

- Orange County, CA. Retained to provide expert testimony on hydrogeology, TCE/PCE and perchlorate contaminant sources and remediation. Included Deposition. (Defense – Orange County Water District v. Sabic Innovative Plastics – Case No. 30-2008-00078246-CU-TT-CXC)
- Parker Dam, CA. Semi-Annual Groundwater Reporting to Bureau of Land Management.
- Baldwin Park, CA. Hired to oversee soil and groundwater sampling for CalTrans freeway expansion in association with FlatIron Corp. included both environmental and geotechnical sampling.
- Pomona, CA. Retained as a rebuttal expert to provide opinions on hydrogeology, contaminant sources (perchlorate), and historical fertilizer use. Included Expert Rebuttal Report and Trial Testimony. (Defense – City of Pomona v. SQM North America Corporation – Federal Court)
- Malibu, CA. Retained and hired to evaluate groundwater conditions of a landslide area in association with geotechnical mitigation. Included overseeing groundwater monitoring, drilling of monitoring wells and meteorological assessment. Included Mediation. (Defense)

- Laguna Beach, CA. Hired to photo-document cave collapse.
- Baldwin Park, CA. Hired to evaluate the soil contamination of several stockpiles in association with FlatIron Corp. road construction.
- Malibu, CA. Hired to evaluate and construct artificial recharge wells in association with City wastewater system. Included drilling of test wells, aquifer testing and water chemistry.
- San Jose, CA. Aid in development of construction proposal for FlatIron Corp.
- Riverside County, CA. Review of ADL reports for SEMA Construction Corp.
- Fullerton, CA. Retained to provide expert testimony on contamination source and remedial alternatives. (Plaintiff- M&H Realty Partners v. Aerojet-General Corp et al. – State Court)
- Los Angeles County, CA. Provided Hydrogeologic evaluation of landslide impacted area.
- City of Los Angeles and Riverside County, CA. ADL Reports for CalTrans.

2010

- Carson, CA. Provided review of contaminated soil data and sampling plan for hydrocarbon investigation.
- Fresno, CA. Wastewater sampling at National Raisin Plant. Provide consulting services on wastewater reuse.
- Pleasant Hill, CA. Retained to provide expert assessment of BTEX/MTBE. Included Declaration. (Plaintiff)
- Victorville, CA. Hired to provide background information on Desert Knolls Wash.
- Placer County, CA. Retained to provide hydrogeological assessment of production well and its impact on neighboring domestic wells.
- Merced, CA. Retained as designated expert for Chromium VI contamination case. Work included providing hydrogeological analysis and guidance. Included Declarations, Expert Reports, Deposition and Trial Testimony. (Plaintiff - Abarca, et. Al. v. Merck-Federal Court)

1995 – 2010. *Environmental Science & Planning, LLC*. Partner (Owner Operator).

Project experience includes management, expert testimony, field work, bid preparation and consulting for public agencies as well as private companies in the areas of remediation, water resource evaluations, geophysical investigations, surface water management, sampling, and modeling. Selected consulting as follows:

2008

- Torrance, CA. Provided expert analysis of Dry Cleaner facility for commercial property.
- Long Beach, CA. Aided in developing conceptual model of manufacturing facility.
- Provide technical oversight and alternatives for San Bernardino County Flood Control.
- Orange County, CA. Retained as designated expert on single family home in association with potential water issues. (Defense)
- San Bernardino County, CA. Provided consulting services in relation to water supply to area of single family residences.
- Signal Hill, CA. Provided expert analysis of downhole video of suspected drain.

2007

- La Jolla, CA. Retained as designated expert on surface and groundwater issues related to landslide. (Plaintiff)
- Long Beach, CA. Retained as designated expert on surface and groundwater issues surrounding a coastal condominium complex. (Plaintiff)
- Norco, CA. Provide expert oversight to Wildermuth Environmental, Inc., on surface water and groundwater sampling protocols and training.

2006

- Riverside, CA. Environmental Impact Report. Provided technical support on land development associated with an old mining claim.
- Irvine, CA. Environmental Engineering and Contracting. Provided support and review of CPT, ROST data for environmental contamination project in the state of Illinois.

2005

- Malibu, CA. Retained as designated expert for hydrogeologic analysis of existing wastewater system. Included Deposition. (Defense)
- Riverside, CA. Oversaw specialized soil and groundwater sampling for Layne Christenson.

2004

- Oakland, CA. Soil and groundwater sampling for CalTrans.
- California. Statistical analysis of lead in soil samples for CalTrans highway expansion.
- Carpinteria, CA. Retained as wetland expert, included HEC-RAS modeling.

2002

- Playa Vista, CA. Developed methane mitigation plan for residential and commercial development.

1999 – 2000

- Norco, CA. Oversaw development of methane sampling and mitigation standards for Riverside California.
- Norco/Corona, CA. Methane Mitigation Investigation.
- Long Beach, CA. Carlin Environmental Consulting. Soil and groundwater sampling.

1997

- Kalamazoo, MI. Worked with United Environmental Technologies, Inc. to help develop sampling and well construction protocols for various projects.

1998 – 2001 & 2007 – 2012. *Earth Consultants International, Inc.* Senior Consultant (www.earthconsultants.com) Work includes project management and project hydrogeologist duties. Other activities include business development and marketing. Projects include wastewater, oil field seepage and methane mitigation, dewatering for construction purposes, EIR development, water resources investigations, watershed studies, and a regional groundwater GIS study for Riverside County.

2010

- Ocotillo/Coyote Wells. Retained to review groundwater basin conditions in association with Wind Zero development. (Testimony on behalf of client – Imperial County)

1998 – Present: City of Malibu Specific Projects

- Retained to provide hydrogeologic services in association with a zero-discharge wastewater system. Aided in Salt Management Plan.
- Retained to provide hydrogeologic services in association with on-site wastewater, Miramar Investment Co.
- Retained to provide consulting services associated with wastewater discharge impacts to the subsurface at Malibu Racquet Club, Casa Malibu Inn, Wavebreak Restaurant and Malibu Cantina Restaurant. (Testimony on behalf of Client – LARWQCB)
- Retained by the City of Malibu to represent them in surface water lawsuit. (Defense - Settled)
- Oceanographic-Hydrogeological analysis and modeling of tidal fluctuations, storm surge and impacts to a coastal developments wastewater discharge system.
- Conducted regional groundwater study for the City of Malibu associated with a groundwater flow model of the downtown area. Includes field work, data analysis and modeling support. (Testimony on behalf of Client – LARWQCB)

- Provided expert testimony for City of Malibu on local groundwater conditions. (Testimony on behalf of Client – LARWQCB)
 - Hydrogeological Characterization and modeling of subsurface wastewater discharge (mounding) – Crummer Property, Malibu, California.
 - Hydrogeological Characterization and modeling of subsurface wastewater discharge (mounding) – Winter Canyon, Malibu California.
 - Hydrogeologic Characterization and testimony to wastewater discharge to subsurface – Malibu, California. (Testimony on behalf of Client – LARWQCB)
 - Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for proposed wastewater treatment facility in downtown Malibu. (Testimony on behalf of Client – LARWQCB)
 - Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction of Thirteen Single-Family Residences in Trancas Canyon, Malibu, California.
 - Groundwater study of Winter Canyon, Malibu, California for the purpose of determining the feasibility of using the canyon for wastewater disposal.
 - Groundwater study of 200 acres in preparing the Malibu Civic Center EIR.
 - Provide expert witness testimony on sewer seepage and geology for the City of Malibu.
- 2001**
- Developed Safety Elements for Newport Beach, Brea, Glendale, and Pasadena.
- 2000**
- Los Angeles, CA. Playa Vista Corporation – Groundwater and Methane Migration Investigation on Playa Vista Property. (Testimony on behalf of Client – City of Los Angeles)
- 1999**
- Safety Element of the General Plan, Riverside County.
 - Orange, CA. Environmental Impact Report – Geologic, Seismic and Hydrologic Sections of the Environmental Impact Report for the Proposed Sully-Miller Fieldstone Project.
 - Brea, CA. Feasibility investigation to review mitigation options for active crude oil seeps (tar) and methane generation.

2001- 2007. Hromadka & Associates. Consultant

Provided litigation support, computer and physical modeling, expert report reviews and writing along with managing multiple cases and field-site inspections for the company.

2006

- San Diego, CA. PCB transport in San Diego Bay.
- San Francisco, CA. Physical model of apartment complex combined sewer and storm drain network.
- San Francisco, CA. Severe rainfall analysis in four events, flooding.

2005

- Yorba Linda, CA. Analysis of sediment transport from large grading project and nursery debris production at school site.
- Irvine, CA. Groundwater uplift analysis of clogged filter fabric in flexible lining and sediment transport in San Diego Creek in 2-mile reach using flexible block lining.
- Torrance, CA. Sediment transport in Compton Creek downstream of Montrose Plant. Transport analysis of sediment in major/minor events.
- Development of Volume Based BMP design procedure for San Bernardino County WQMP.
- Multi-lake hydrologic and water quality analysis at Lake Merced, California. Phosphates, nitrates, golf courses, coliform in groundwater, flood control and risk reduction. Tunnel flow capacity analysis. Hydrologic balance analysis.

- Santa Rosa, CA. Transport and fate of TCE, PCE in surface water.
 - Anaheim Hill, CA. Soil water transport and ET studies for several hundred residences. Water balance studies.
 - Fullerton, CA. Soil water transport and ET studies for several dozen residences. Soil water flux in concrete.
 - San Clemente, CA. Soil water transport and hydrologic balance analysis near landslides.
 - Castaic Lake, CA. Soil water transport and hydrologic balance analysis of residential tract.
 - Oahu, HI. Groundwater plume transport, analysis of BTEX in rising groundwater and tidal effects.
 - Daly City and San Francisco, CA. Flooding and tunnel capacity analysis.
- 2004**
- Tehachapi, CA. Analysis of TDS, cement Kiln dust, chlorinated hydrocarbons, BTEX, TCA, TCE, DCA, and DCE, groundwater flow in fractured and faulted media.
 - Irvine, CA. Groundwater hydrostatic pressure analysis, waterproofing of office center.
 - Laguna Canyon, CA. Modeled Landslide.
 - Fullerton, CA. Sediment and Debris production, transport, 50-acre watershed.
 - Palm Springs, CA. Transport of Aeolian Sand, PM10, saltation, creep, entrainment in "Blow Sand" area.
 - Water Quality holding time criteria development, 85-percentile of average storm analysis, County of San Bernardino, Water Resources Division.
- 2003**
- Torrance, CA. Sediment transport analysis between city of Torrance and Santa Monica Bay. DDT transport.
 - Analysis of TDS, viruses, bacteria, raw sewage, in New River, and Salton Sea. RMP. Evaporation impacts to Salton Sea salinity.
 - San Clemente, CA. Analysis of landslide development.
 - Henderson, NV. Analysis of soil water excess. Perchlorate sampling and analysis
 - Review of perchlorate modeling and transport, Mid-Valley Landfill, San Bernardino County, California.
 - Groundwater supply and TDS levels of inflow into New River and Salton Sea, Imperial Valley, California.
 - Henderson, NV. Man-made preferential pathways and groundwater transport in land development.
 - Anaheim Hills, CA. Water Supply, soil water saturation, landscape methodology review, moisture accumulation, percolation tests.
 - San Diego, CA. Analysis of releases, BTEX, MTBE, lead, groundwater flow, plume evolution, soil gas, soil TPH, CPT/LIF, HydroPunch data, at Mission Valley.
- 2002**
- Honolulu, HI. Sediment transport and erosion.
 - Las Vegas, NV. Debris and sediment flow in Duck Creek.
 - Irvine, CA. Statistical analysis of all Orange County sediment and contaminant data, San Diego Creek watershed.
 - Ontario, CA. Modeling and analysis of Kaiser TDS plume.
 - San Clemente, CA. Analysis of landslide hydrologic balance.
- 2001**
- Irvine, CA. Stability of erosion control measures in San Diego Creek.
 - Dana Point, CA. Erosion analysis of slope failures.
 - Torrance, CA. Transport of DDT in surface water, groundwater, sediment, and atmosphere, M2000 Transport of DDT from chemical plant.

- San Diego, CA. Groundwater transport of fuel, free product, in Mission Valley.

1996 – 1998, *SimulProbe Technologies*. Senior Hydrogeologist

Traveled extensively throughout North America and Europe marketing various technologies. Promoted to head of marketing in the Midwest and Southwest regions. Responsibilities included; budgeting, supervising staff, project management, and making presentations to government officials and private contractors. Duties also included direct marketing to drilling firms and environmental consultants, supervising all sales personnel and marketing efforts; scheduling service calls and field operations; assisting with R&D; field training and site management.

Miscellaneous Projects

1995 – 1998, Project/Staff Geologist

- Kalamazoo, MI. Worked for the *GEM Regional Center, Western Michigan University*. Conducted water budget analysis for watershed located in Calhoun County.
- Kalamazoo, MI. Worked with the *Health Division of the Michigan Department of Environmental Quality* on well grouting issues surrounding public and private water supplies.
- Kalamazoo, MI. Worked with the *Michigan Department of Environmental Quality* on the Hydrogeological and Geochemical aspects of the Panelyte site. This involved the use of geophysics and geochemical analysis for the detection and mapping of possible contaminants.
- Ross Township, MI. Retained through *Western Michigan University* by the City of Kalamazoo, to determine the impact of a proposed wellfield on the surrounding surface water bodies (streams, lakes and wetlands).

1993 – 1995

- Minden, MI. Retained by *Michigan Peat Company* to evaluate peat reserves. Evaluation involved sampling and mapping the peat reserves for the purpose of litigation.
- Salem, IL. Retained by *Hi-Shots Aerial Photography Inc.*, to setup and demonstrate internet capabilities for small business.
- Michigan. Retained by *Superior Environmental Corp.* to conduct an EM-31 geophysical surveys. The surveys were designed to locate possible buried tanks in a downtown bank parking lot, a corner restaurant parking lot, fabrication/manufacturing buildings and a former car dealership.
- Schoolcraft, MI. *Alpha GeoSciences Inc.* (Through Department of Geology, Western Michigan University). Hired to run a hollow stem auger drill rig. Three 30-foot wells were installed.
- Kalamazoo, MI. *Golder Associates Inc.* (through the Institute for Water Sciences, Western Michigan University) retained to geophysically log wells located within the KL-landfill CERCLA site using a natural gamma radiation.
- Champaign/Urbana, IL. Conducted an aerial photographic survey of the Champaign/Urbana landfills to locate hot spots where possible sub-surface fires maybe burning. Contract was funded through the *Illinois State Geological Survey*.
- Ann Arbor, MI. Conducted aerial photographic survey of a contaminated wetland for *Alpha GeoSciences Inc.* of Kalamazoo, Michigan. Provided site maps of monitoring wells and sampling locations.

1991 – 1993

- Sanibel Island, FL. Retained by the *City of Sanibel Island, Florida* to evaluate coastal erosion along the Gulf Coast side of the island for the purpose of litigation.
- Paris, France. Retained by *Littoral et Patrimoine* for projects in France and India. Evaluated coastal erosion and constructed possible solutions to ongoing erosion problems.
- Sandusky, OH. Designed sediment coring program along the Sandusky River and part of Lake Erie for project funded by the *Ohio Department of Natural Resources*. The sediment cores were used in defining the sediment input from the Sandusky River and Lake Erie on adjacent estuaries/marshes.
- Three Rivers, MI. Retained by *Reid and Reid Law Offices*, Kalamazoo, Michigan, to evaluate the effects of the construction of a golf course and adjacent buildings on the water quality of Lake Templene for the purpose of litigation.
- Portage, MI. Designed and coordinated the work on an aeration pilot project on Austin Lake. This project involved bottom sampling, coring and sediment profiling. Collected and analyzed the sediment and water samples for the *Ramco Company*. Prepared an independent report on the success of the entire project.
- Ludington, MI. Assisted on the Department of Geology's state funded project involving erosion control monitoring of Undercurrent Stabilization systems.
- Michigan. Assisted the Western Michigan University Department of Geology on a state-funded project regarding erosion monitoring along Lakes Michigan and Huron.
- Wilmington, NC and Plainwell, MI. Retained by Dr. Thomas Straw to analyze various meteorological parameters for a hydrology project in Wilmington, NC.
- Plainwell, MI. Retained by Dr. Thomas Straw to solve problems associated with a gravel pit operation.

1990 – 1991

- Atlanta, GA. Retained as consultant by *Sutherland, Asbill & Brennan*, to address a wetland problem within one of *Mobil Land Development Company's* major developments. This included wetland hydrology, soil chemistry monitoring and aerial photographic interpretation. Litigation support.
- Benton Harbor, MI. Member of Scientific Party – Great Lakes Mapping cruise of eastern Lake Michigan (United States Geological Survey cruise no. NPTN91-1). The resultant sediment samples were split between WMU and the USGS allowing for research on shape analysis for possible finger printing.
- Western Michigan University, Institute for Water Sciences. Research assistant on a United States Geological Survey funded project along the Lake Michigan shoreline.

1989 – 1990

- Western Michigan University. Worked with the Department of Geology on small construction projects and consulted on a state funded project addressing shoreline erosion.

1983 – 1989

- Hutchinson, MN, *3M Company*. Worked at various jobs for the 3M Company including heavy equipment operator, hazardous waste disposal, and computer database operator.

TEACHING EXPERIENCE

- 2006 – Present California State University, Fullerton, CA
Associate Professor of Hydrogeology. Responsible for teaching lower division classes in Hydrogeology (GEOL 436); Physical Geology (GEOL 101-GE); Water Crisis in California (GEOL 310T); Sedimentology and Stratigraphy (GEOL 321); Hydrology and Surface Processes (GEOL 335) and upper division classes in Groundwater Modeling; Environmental Sampling and Protocols; Well Hydraulics and Aquifer Analysis (GEOL 535T)
- 2015 – Present Western Michigan University, Kalamazoo, MI
Adjunct Associate Professor, Department of Geosciences.
- 2000 – 2006 California State University, Fullerton, CA
Assistant Professor of Hydrogeology. Responsible for teaching lower division classes in Hydrogeology (GEOL 436); Meteorology (GEOL 340-GE); Oceanography (GEOL 333-GE); Physical Geology (GEOL 101-GE) and Lab (GEOL 101L-GE) and upper division classes in Groundwater Modeling; Environmental Sampling and Protocols; Well Hydraulics and Aquifer Analysis (GEOL 535T); Research Methods in Geology (501); Geology Seminar (GEOL 590)
- 2001 – 2016 Western Michigan University, Kalamazoo, MI
Responsible for Summer Field Course in Hydrogeology. Teach at least 1-week graduate level field course(s) every year including (1) Principles of Well Drilling and Installation; (2) Principles and Practices of Aquifer Testing; (3) Remediation Design and Implementation
- 1999 – 2000 California State University, Fullerton, CA
Part-time instructor. Responsible for Oceanography (GEOL 333) and Water Quality (GEOL 437).
- 1992 – 1996 Western Michigan University, MI
Graduate Student Instructor responsible for Hydrogeology (GEOL 435), Oceanography (GEOL 333), and Hydrogeology Summer Field Course (GEOL 535 a, b, c, d, e and f). This field course consisted of six individual modules (40-Hour HAZWOPPER, Environmental Surface Geophysics, Principles of Well Drilling and Installation, Principles and Practices of Ground-Water Sampling and Monitoring, Principles and Practices of Aquifer Testing and Analysis, and Remediation Design and Implication). Other responsibilities included Construction Measurements and Layout through the Department of Engineering Technology. Responsible for the lab sequences only.

Other Teaching Experience

- 2018 Instructor – CalGeo – Soil Logging and Litigation
- 2016-17 Instructor – SCGS – Soil Sampling and Classification Short-Course
- 2012 Instructor – NGWA Hydrogeology Field Methods Course: What you didn't learn in School. Andover, MN.
- 2010-11 Reviewer/Participant – Worked with Healthy Heroes, LLC developing educational videos.
- 1996 – 98 Instructor – *Eight-hour OSHA HAZWOPER* supervisor course (29 CFR 1910.120 (e)(3)).
- 1995 Hi-Shots International Conference. Taught short-course on environmental remote sensing utilizing a helium-filled tethered blimp. 10 individuals attended the course.
- 1992 Kalamazoo, Michigan. Teaching Assistant for a course titled *Shoreline Geology and Processes*. Course sponsored by the Secondary Education of Michigan Summer (SEMS). This was a state-funded project. (30 students)
- 1991 St. Joseph, Michigan, Berrien County. Teaching assistant for a course titled *Shoreline Geology and Processes* sponsored by the SEMS State funded project. (30 students)

Developed CSUF-Departmental Short-Courses:

- CPT Demonstration Day – Gregg Drilling (2010)
- AMS Demonstration Day (2009)
- GeoProbe Demonstration Days (2009 – 2011, 2017)
- Westbay Multiport Sampling (2004-09, 2017)
- CPT Field Demonstration on Quality Environmental Site Investigation. (In-cooperation with Gregg Drilling) (2004)
- Environmental Sampling Procedures and Practices (2003)
- Borehole and Well Logging Interpretation (Taught at Layne Christenson) (2003)
- Baroid Industrial Drilling Products – Drilling and Boring Fluids (2002)
- GIS Course I & II – What is GIS and how can it be utilized in research (2001)
- FEMA – Advanced HAZUS Training for GIS Professionals (2001)

TEACHING PHILOSOPHY

As a professor, my main goal is to provide students with practical experience essential for building a successful career. In addition to providing the “nuts and bolts” of a subject, I encourage students to apply traditional knowledge to innovative approaches through applied research and hands-on experience. I aspire to motivate students by fostering participation in unique learning opportunities, many of which are provided by local companies, agencies, and vendors willing to share their services and expertise.

Through private and government grants and contracts, I am able to provide multiple funding opportunities to my students, allowing them the means to spend more time on their academic studies and also providing experience through field-related projects. My main research focus is groundwater hydrology and hydrogeology of arid environments. Most of my students directly participate in this research and are able to obtain either Bachelor’s or Master’s degrees through individual projects for which they are responsible.

I encourage my students to actively participate in professional organizations in order to build strategic partnerships and create a broad reaching network of individuals and indispensable resources. Further, I encourage students to present abstracts and posters at local and national conferences and to publish their research as much as possible in order to stimulate educated discussions with their peers and accomplished professionals.

The best way to measure the effectiveness of my objectives and to judge my goals is to elicit student feedback and evaluation. I am consistently rated very high by my students in their end of semester assessments. My biggest reward as a teacher is a lasting professional and personal relationship with my students. I enjoy working with and supporting students through their academic careers and feel honored when they graduate with a professional degree.

AWARDS, HONORS, SPECIAL QUALIFICATIONS

- NGWA 2014 Ross L. Oliver Award
- NGWA 2014 Keith E. Anderson Award
- Western Michigan University 2011 – Distinguished Alumni Award
- NGWA 2009 McEllhiney Lecturer for Water Well Technology
- International Ground Source Heat Pump Association (IGSHPA) Accredited Trainer (20589-0709)
- Boy Scouts of America – Merit Badge Sponsor: Geology, Oceanography, Environmental Science and Soil and Water Conservation
- CSUF – Student Association, Outstanding Academic Advisor (2003/04)
- CSUF – NSM Nominee for Outstanding Contributions to Student Success Award (2002/03 & 2003/04)
- Western Michigan University established a scholarship in my honor for the outstanding hydrology field camp students. Awarded annually since 1998.
- Western Michigan University, Department of Geology, Distinguished Service Award, 1997.
- Western Michigan University Research Fellowship 1991-1992.
- IEEE OCEANS 92' student paper finalist.
- OSHA 40-Hour Hazwoper Supervisor, active

NATIONAL AND UNIVERSITY COMMITTEES

- CSUF, Hiring Committee for VP Advancement (2018)
- CSUF, University Advancement Committee Member, 2003-05; 2011-15; 2017-19 (chair 2017-19)
- CSUF, Freshman Pathways (Sustainability), Committee Member, 2013-2015
- CSUF, ENST Advisory Committee, 2004 - present
- NSM, Safety Committee Member, 2010-2014
- NSM, Service Learning, Committee Member, 2001-2007
- NSM, Tucker Wildlife Advisory Board, 2003-2007
- NSM, Career Opportunity Committee, 2004-2006
- WMU, Geosciences Advisory Council Member 2007 - present (co-Chair 2013- 2017)
- GRAC – State Meeting Committee Member 2007-2009
- GRAC – Educational Committee Member 2009 - present
- NWRI – Independent Advisory Panel; OCWD Santa Ana River Monitoring Program, 2006-2012
- Long Valley Hydrologic Advisory Committee, 2003-2009

NATIONAL GROUND WATER ASSOCIATION

- NGWA Research and Education Foundation, President, 2015-2017
- NGWA Research and Education Foundation, Board Member, 2010-2014, 2017-2018
- Scientists and Engineers Division, Past Chair 2012-2014
- Scientists and Engineers Division, Chair 2010-2012
- Scientists and Engineers Division, Vice-Chair, 2008-2010
- Scientists and Engineers Division, Board Member, 2004-2008; 2016-2020

- NGWA - McElliney Lecture Committee, 2014 - present (chair 2014)
- NGWA – Board of Directors, 2008-2014
- NGWA – Council for External Relations, 2010-2012
- NGWA – Council for Planning, 2006-2010
- NGWA – Professional Development Committee Member, 2000 - (chair 2009-2010)
- NGWA – Groundwater Summit Co-Chair (2006): Committee Member (2005, 2007-2012)
- NGWA – National Certification Committee Member, 2002-2008
- NGWA – Finance and Budget Standing Committee, 2008-2012
- NGWA – American Geological Institute Representative, 2009-2010

FUNDED GRANTS and CONTRACTS
(CSUF total to date through 2016: over \$ 3,000,000)

2017

- Water Replenishment District of Southern California (\$5,000). Grant to develop full proposal to deal with groundwater outreach education instruction.

2016

- California High Speed Rail Authority (\$500,000); Oversee Groundwater issues as they may pertain to construction and operations of the California High Speed Rail. Including groundwater modeling review and deep groundwater monitoring.

2014

- Olivenhain Municipal Water District (\$2,500); Water Resource Document Archiving.

2004 – 2014

- Mojave Water Agency (\$2,099,000); *Grant for work on Water Resource Evaluation and Mapping – Mojave Desert Region* (Alto, Este, Oeste and Centro Hydrologic Sub-areas).

2003

- Mojave Water Agency (\$217,000); Water Resource Research within the Mojave Desert. Part of this project is to development a GIS/Database inventory of all wells, groundwater elevations and hydrogeochemistry of each basin within the boundaries of MWA. Specific portions of the grant have been set aside to collect and analyze data from a 2,500-foot-deep multiport monitoring well in the vicinity of Oro Grande Wash.
- Friends of the San Gabriel River (\$32,000); *Citizens Monitoring Program Development and Implication*. This was funded through a State of California Grant (Prop 50).

2002

- Mojave Water Agency (\$57,405); *Groundwater Investigations to look at potential recharge areas throughout the Southern Mojave Desert Area*. Establishment of digital well log inventory and bibliographic search of all documents pertaining to MWA water agency. CSUF was also charged with developing a key well program for Lucerne Valley based on groundwater basin recharge.
- CSUF Service-Learning Mini-Grant (\$1,500); *The integration of Service Learning into Advanced Environmental Geology*.
- Earth Consultants International, Inc. (\$3,000); *Geologic Interpretation of borehole geophysics. Involves the gamma-ray logging and interpretation of subsurface geology*.

2001

- CSUF Service-Learning Mini-Grant (\$3,000); *The integration of Service Learning into Advanced Hydrogeology Sampling*.
- San Elijo Lagoon Conservancy (\$35,000); *Sediment Quality and Depositional Environment of San Elijo Lagoon*.
- Los Angeles Regional Water Quality Control Board (\$31,000); *The Santa Clara River Watershed; GPS and Observational Report on the Santa Clara River*
- Grant to develop a web-based model on Distance Calibration of Earth Images (\$800). This was part of Advanced Technology in Science Learning Environments Grant through the Department of Biology.
- CSUF Summer Support Assistance (\$5,000); This was summer support money to provide assistance in the sampling of water and soil throughout Orange County, California.

2000

- Los Angeles Regional Water Quality Control Board (\$25,000); *The San Gabriel River Watershed; GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach*.

IN-KIND DONATIONS for Research / Projects

- Woolly Mammoth (est. \$500,000); Donated by Gregg Family Foundation
- Software (Visual Modflow) (\$2,700); Donated by Earth Forensics Inc.
- Soil sampling supplies and equipment (\$2,500); Donated by GeoProbe.
- Deep Multiport Westbay Monitoring Well (\$300,000); A deep multiport monitoring well was installed on the northwestern portion of campus in order to develop a long-term monitoring program for groundwater in the north Orange County groundwater basin. The well was installed with sampling ports at 6 different zones to a total depth of 850 feet below ground level. The entire project was donated.
- Miscellaneous equipment, supplies and laboratory analysis has been donated for a multitude of different projects (\$50,000). These donations have been used for student thesis research and classroom activities.
- Sampling Truck (value \$30,000). The vehicle is specially designed to collect water samples downhole – equipped with twin generators and large capacity hydraulic system. Donated by Earth Technologies, Inc.
- Ford F-250 Pickup (\$8,000); Donated by URS Corporation.
- Generator (\$2,500); Donated by Aquifer Science and Technology.
- Software (Waterloo Hydrogeologic – Visual Modflow, AquiferTest and Aquachem) (\$10,000).
- Software (Groundwater Vistas) (\$2,500).
- Conference table and chairs (\$500); Donated by URS Corporation.
- Arboretum Groundwater Study (approximately \$10,000); Drilling and installation of 3 monitoring wells for the purpose of developing curriculum for general hydrogeology. These wells are part of a larger project to interpret the hydrogeology of CSUF and the local area.

PROFESSIONAL PUBLICATIONS, ABSTRACTS, PRESENTATIONS and POSTERS

Peer-Reviewed Publications (Published, Accepted, Submitted)

1. Dailey, D., Sauck, W., Sultan, M., Milewski, Laton, W.R., Foster, J., Ahmed, M., Schmidt, C., Eckhart, L., Garcia, A., Chouinard, K., 2014. *Geophysical, geochemical, and remote sensing applications for a better understanding of the structural controls on groundwater flow in the Lucerne Valley, California*. Journal of Hydrology: Regional Studies.
2. Laton, W.R., 2006. *Building Groundwater Monitoring Wells on Campus – A Case Study and Primer*. Journal of Geoscience Education (Vol. 54, No. 1), pgs 50-53.
3. Laton, W.R., Whitley, R.J., and Hromadka II, T.V., 2006. *A Methodology for Identifying the Potential Source of Groundwater Contamination in a Multiple Source Problem Using a New Mathematical Approach*. Hydrogeology Journal. DOI 10.1007/s10040-006-0106-4
4. Laton, W.R., Hromadka II, T.V. and Picciuto J.A., 2006. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. Hydrological Science and Technology, Volume 22, No.1-4.
5. Laton, W.R., 2004. *Seepage, Flow and Chemical Partitioning Between the City of Parchment Wellfield and the Kalamazoo River, Southern Michigan*. Journal of Floodplain Management (Vol. 4, No. 1), pgs 11-32.
6. Foster, J.F., Laton, W.R., and Figueroa, O. *Sudden Late Holocene closure of San Elijo Lagoon, northern San Diego County, California*. Environmental and Engineering Geosciences (in review)
7. Velarde, J.C., Foster, J.F. and Laton, W.R., *A profile of two springs in the vicinity of Pitzer Buttes/Silver Creek, Lucerne Valley, San Bernardino County California*. (in review)

Guidebooks, Full Paper Proceedings and Articles

1. Laton, W.R. and Krstich, B., 2010. *Zoom Zoom, Public works managers are now using Google Earth to track environmental and water resources*. Public Works Online. (Public Works Manual 2010)
2. Laton, W.R., 2005. The Cutting Edge "Teaching Hydrogeology in the 21st Century". NGWA-AGWSE News and Views. (article September 2005)
3. Jenson, J. and Laton, W.R., 2005. Second Annual Groundwater Summit. NGWA-AGWSE News and Views. (article September 2005)
4. Laton, W.R., 2004. *Building Ground Water Monitoring Wells on Campus: A Case Study and Primer*. NGWA-AGWSE News and Views. Vol. 1, Issue 1.
5. D. Bausch, E. Gath, T. Gonzales, and R. Laton, 2000. *GIS-Based Hazard Mapping and Loss Estimation in the Safety Element of the General Plan for Riverside County, California*. California: EERI 6th International Conference on Seismic Zonation, Riverside County, California.
6. Laton, W.R., ¹Perez, R., and Bausch, D., 2000. *New Hazard Maps for Riverside County, California*. San Diego Association of Geologists annual field trip guidebook.
7. Laton, W.R., 1992. *Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping*. OCEANS '92, Newport, Rhode Island.

PUBLIC REPORTS

1. Laton, W.R., 2016. *Phase 1 Groundwater Study – Palmdale to Burbank Section of California High Speed Rail*. California High Speed Rail Authority.
2. Laton, W.R., 2016. *DTSC Aquifer Test Guidance*. Reviewer for draft guidance document.
3. Foster, J., Laton, W.R., et. al., 2008. *Geologic Map Series of Mojave Region*. (750, 500, 250, 24' and 15'). Mojave Water Agency. Revised series, Fall 2010.
4. Laton, W.R., Foster, J., et. al., 2007. *Oeste Hydrologic Sub-Basin Report*. Mojave Water Agency.
5. Hromadka, II, T.V., Laton, W.R. and ²Perez, R., 2006. *Hydrologic Data Report October 17-21, 2004 Storms*. Orange County Flood Control District.
6. Laton, W.R., Foster, J., et. al., 2007. *Groundwater Atlas of Oeste Hydrologic Sub-basin*. Mojave Water Agency.
7. Laton, W.R., Foster, J., ²Ebbs, V., ²Blazevic, M., and ¹Napoli, N., 2007. *Harper Lake Hydrologic Sub-Basin Report*. Mojave Water Agency.
8. Laton, W.R., ¹Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Baja Hydrologic Sub-Basin to Afton Canyon Report*. Mojave Water Agency.
9. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Este to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
10. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Oeste to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
11. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Alto to Centro Hydrologic Sub-Basins Report*. Mojave Water Agency.
12. Laton, W.R., ¹Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Centro to Baja Hydrologic Sub-Basins Report*. Mojave Water Agency.
13. Hromadka, II, T.V., Laton, W.R., and Picciuto, J.A., 2005. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. San Bernardino County Flood Control District.
14. Laton, W.R., Foster, J., et. al., 2004. *Este Hydrologic Sub-Basin Report*. Mojave Water Agency.
15. Laton, W.R., Foster, J., et. al., 2004. *Groundwater Atlas of Este Hydrologic Sub-basin*. Mojave Water Agency.

16. Laton, W.R., et. al., 2004. *San Gabriel River Watershed Atlas*. Friends of the San Gabriel River.
17. Laton, W.R., et. al., 2004. *San Gabriel River Watershed QAPP and Sampling Manual*. Friends of the San Gabriel River.
18. Laton, W.R., ²Kendall, D. and ²Lizzy, A., 2004. *Drilling Methods and Materials*. On-line course material for NGWA.
19. ¹Blazevic, M. and Laton, W.R., 2004. *Mojave River Stream Gauging*. Mojave Water Agency
20. Laton, W.R., 2002. *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy.
21. Laton, W.R. and Foster, J., 2001. *Sediment Quality and Depositional Environment of San Elijo Lagoon, San Diego County, California*. San Elijo Nature Conservancy and Fish and Wildlife Service.
22. Laton, W.R. and Foster, J., 2001. *Santa Clara River Watershed Inventory*. Los Angeles Regional Water Quality Control Board.
23. Laton, W.R. and Foster, J., 2000. *The San Gabriel River Watershed GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach*. Los Angeles Regional Water Quality Control Board.
24. Straw, W.T., ²Hascall, A.P., ²Laton, W.R., and ¹Dalman, M., 1997. *Groundwater – Surface Water Interaction Study in Ross Township*. City of Kalamazoo, Michigan.
25. Straw, W.T. and ²Laton, W.R., 1993. *WMU Austin Lake Aeration Feasibility Study Evaluation*. City of Portage, Portage, Michigan.
26. Straw, W.T., ²Wardwell, D.A. and ²Laton, W.R., 1992. *An Evaluation of Undercurrent Stabilization Anchor System Installation at Douglas and Tawas City, Michigan*. Michigan Department of Natural Resources.

¹Undergraduate Student

²Graduate Student

Abstracts, Presentations and Posters

1. Laton, W.R., 2018. *20-Years of CSUF Research – From Mojave to the Ocean*. California Groundwater Resources Association, Southern Branch (Invited).
2. Laton, W.R., 2018. *Groundwater – The Water beneath Our Feet*. CSUF Fullerton Arboretum (Invited).
3. *Perez, R. and *Laton, W.R., 2018. *The Use of UAVs for Groundwater Research*. California State University, San Bernardino (Invited).
4. *Perez, R. and Laton, W.R., 2017. *UAV's for Use in Groundwater Resources*. NGWA Expo, Nashville, TN.
5. Laton, W.R., 2017. *Introduction to Borehole Geophysics*. NGWA Expo, Nashville, TN.
6. Laton, W.R., 2017. *Malibu California, Wastewater and Politics*. Southern California Chapter of AEG (Invited)
7. Laton, W.R., 2017. *Low Altitude Photography Utilizing UAVs – Geologic and Hydrologic Applications*. Los Angeles Basin Geological Society (Invited)
8. Laton, W.R., 2016. *Preparing for the Field, What to Take?* NGWA Expo, Las Vegas, NV.
9. Laton, W.R., 2016. *Wastewater, Politics and Science*. South Coast Geological Society (Invited – presentation).
10. Laton, W.R., 2016. *Malibu, California; A Story of Wastewater, Politics and Science*. Western Michigan University. (Invited – presentation)
11. Laton, W.R., 2016. *Holding Back the Ocean and Recharging Aquifers with Treated Wastewater*. Minnesota Groundwater Association, Annual Meeting. (Invited – presentation).
12. Laton, W.R., 2016. *UAV Mapping and Business Opportunities*. Ground Water Institute. Tucson, AZ. (Invited - Presentation)

13. Laton, W.R., 2016. *Malibu, California: A Story of Wastewater, Politics and Science*. GSA Section meeting, Ontario, CA. (abstract/presentation)
14. *Perez, R., Laton, W.R., Cruikshank, M. and 'Hugh, C., 2016. *UAV Imagery and Mapping: What are the Capabilities and Limitations?* SAGEEP 2016, Denver, CO. (abstract/presentation)
15. Laton, W.R., 2015. *Souder Selection – Show and Tell*. NGWA Expo, Las Vegas, NV.
16. Laton, W.R., 2015. *Preparing for the Field – What to Take?* NGWA Expo, Las Vegas, NV.
17. Laton, W.R., 2015. *Using Sand Tank Models to Explain Groundwater Flow*. NGWA Expo, Las Vegas, NV.
18. Laton, W.R., 2015. *When does it make Sense to Learn from a Person vs. Learn from a Device?* NGWA Expo, Las Vegas, NV.
19. Laton, W.R. and Perez, R., 2015. *Low Altitude Photography Utilizing UAV's*. Long Beach State University – GIS Day Mixer. (Invited – presentation)
20. *Laton, W.R., *Perez, R. and *Cruikshank, M., 2015. *Low Altitude Photography utilizing UAV's – Geologic and Hydrologic Applications*. IGS, Riverside, CA. (Invited – presentation)
21. Laton, W.R. 2015. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint and Drones for Use in Water Resources*. Mountain States Groundwater Expo, Laughlin, NV. (Invited – presentation)
22. Laton, W.R. 2015. *Backyard Soils*. Natural OC, Santa Ana, CA. (Invited – presentation)
23. Laton, W.R. 2014. *Using Google Earth for Hydrogeological Problem Solving*. NGWA Expo, Las Vegas, NV. (workshop)
24. Laton, W.R. and Perez, R., 2013. *Got Geological Problems-How to Use Innovative Multimedia Applications to Identify and Analyze Them*. NGWA Expo, Nashville, TN. (workshop)
25. Laton, W.R., 2013. *Hydrogeology 101*. NGWA Expo, Nashville, TN. (lecture)
26. Laton, W.R., 2012. *Hydrogeology 101*. NGWA Expo, Las Vegas, NV. (lecture)
27. Laton, W.R., 2012. *Using Sand Tank Models to Teach about Groundwater*. NGWA Expo, Las Vegas, NV. (workshop)
28. Laton, W.R., 2012. *Geothermal Forum: Business Success Through Excellent Performance – Hydrogeology (Really) Does Matter*. NGWA Expo, Las Vegas, NV (lecture)
29. Laton, W.R., 2011. *Using Sand Tank Models to Teach about Groundwater*. NGWA Expo, Las Vegas, NV. (workshop)
30. *²Dailey, D.R., Sauck, W.A., Sultan, M., Milewski, A., Laton, W.R. and Foster, J.H., 2011. *Geophysical and Remote Sensing Applications for better understanding of the Structural (Faults/Basement Uplifts) Controls on Groundwater Flow in the Lucerne Valley, California*. GSA Annual Meeting. (abstract/presentation)
31. Laton, W.R., 2011. *Implications of Surface Water/Groundwater Interaction or Groundwater and the Impacts on Surface Water Delivery*. Declining Groundwater Levels: Measuring, Monitoring, and Mitigation. NGWA Virtual Conference.
32. Laton, W.R., 2011. *Hydrogeology 101*. Santa Susana Field Laboratory seminar series. (workshop)
33. *²Barker, S., Laton, W.R. and Foster, J.H., 2010. *An investigation of potential surficial recharge in the Lucerne Valley groundwater basin, Mojave Desert, CA*. Anaheim, CA. GSA Abstract with Programs. Vol. 42, No. 4, p. 97, Paper No. 45-2.
34. Laton, W.R., 2010. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint*. GRA Webinar.
35. Laton, W.R., 2010. *Using Google Earth in Water Resources Research*. NGWA Webinar.
36. Laton, W.R., 2010. *Hydrogeology 101*. NGWA National McElhiney Lecture 2010, Sponsored by the NGWAREF (Invited 7 presentations throughout the U.S.)
37. Laton, Richard, *²Al Harbi, Talal, Sauck, William A., Foster, John, Sultan, Mohamed, Milewski, Adam, Marsala, Peter, Balekai, Rajesh, and Salim, Hassan, 2009. *Use of Geophysical and*

- Remote Sensing Data for a Better Understanding of the Hydrologic Role of Faults in the Mojave Desert.* GSA Annual Meeting. (abstract/poster)
38. Laton, W.R., 2009. *Using Google Earth.* NGWA Expo, New Orleans, LA. (workshop)
 39. Laton, W.R., 2009. *Hydrogeology 101.* NGWA Expo, New Orleans, LA. (workshop)
 40. Laton, W.R., 2009. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint.* NGWA National McElhiney Lecture 2009, Sponsored by NGWAREF. (Invited 30+ presentations throughout North America)
 41. Foster, J.H. and Laton, W.R., 2008. *Groundwater Resources Sustainability in the Victorville Area: Results from the Oro Grande Wash Recharge Pilot Study.* Association of Engineering Geologist. (abstract/presentation)
 42. *¹Dailey, D., Laton, W.R., and Foster, J.H., 2008. *New Detailed Model for El Mirage Subsurface Geology, El Mirage, CA.* GRA Annual Meeting. (abstract/poster)
 43. *¹Velarde, J.C., Foster, J.H., and Laton, W.R., 2008. *The Geology of Spring Systems in the Vicinity of White Mountain/Silver Creek, Lucerne Valley, San Bernardino County California.* GRA Annual Meeting. (abstract/poster)
 44. *²Monzon, E. and Laton, W.R., 2008. *Estimating Applied Irrigation for Urban Landscapes in South Coast California, using Theoretical and Conventional Means.* GRA Annual Meeting. (abstract/poster)
 45. Lizzi, A., Laton, W.R., Foster, J.H., 2008. *Evaluation of the Potential Groundwater Resources of A Confined Aquifer, San Diego County, California.* NGWA Groundwater Summit (abstract/presentation)
 46. Laton, W.R., 2006. *Surface Water and Ground Water: How the Two Interact.* NGWA National Meeting. (Invited – presentation)
 47. *¹Cruikshank, M.J., Foster, J.H. and Laton W.R., 2006. *Presence of Deep High-Quality Ground Water in El Mirage Valley, San Bernardino County, California.* NGWA Groundwater Summit (abstract/poster) (Outstanding Research Award)
 48. *²Surko, T., Armstrong, P.A. and Laton, W.R., 2006. *Gravity Survey of Lucerne Valley Ground Water Basin, Mojave Desert, Southern California: Implications for Basin Geometry and Structure.* NGWA Groundwater Summit (abstract/presentation)
 49. *²Barthel, P.S. and Laton, W.R., 2006. *Desert Studies Center: A Hydrogeologic Model and Water Budget.* NGWA Groundwater Summit (abstract/presentation)
 50. Laton, W.R., 2005. *Methods to Determine Basin Yield.* GRA Groundwater Resources Series – Basin Yield and Overdraft: Scientific and Legal Perspective. (Invited – presentation)
 51. Laton, W.R., 2005. *Borehole Logging from Sample Collection to Borehole Geophysics.* Presented at NSF Workshop on “Teaching Hydrogeology in the 21st Century”. (presentation/lab write-up)
 52. Laton, W.R., 2005. *Water Budget Analysis – A Story of Two Arid Region Groundwater Basins.* CEA-Crest Symposium on Arid Hydrology. (abstract/presentation)
 53. *¹Laton, W.R., Hromadka, T., Yeager, M., Picciuto, J. and Whitely, B., 2005. *A New Method for Estimating Runoff Quantities for Flow and Volume-based BMP Design.* CASQA Conference. (abstract/presentation)
 54. *²Lizzi, A.L., Laton, W.R. and Foster, J., 2005. *Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California.* NGWA 2005 Groundwater Summit. (abstract/poster)
 55. *²Boeke, B., Laton, W.R. and Foster, J., 2005. *Groundwater Potential for Harper Dry Lake: Implications for Ground Water Availability in Harper Valley, San Bernardino County, California.* NGWA 2005 Groundwater Summit. (abstract/poster)
 56. *²Kolstad, K. and Laton, W.R., 2005. *Hydrocarbon Soil Vapor: Actual vs Predicted.* NGWA 2005 Groundwater Summit. (abstract/poster)

57. ¹Napoli, N. and Laton, W.R., 2005. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
58. ²Perez, R. Foster, J. and Laton, W.R., 2005. *The Redefining of a Groundwater Basin, Alto Sub Basin, Southwestern Mojave Desert, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
59. ²Surko, T.L., Armstrong, P. and Laton, W.R., 2005. *Gravity Survey of Lucerne Valley Groundwater Basin, Mojave Desert, Southern California: implications for basin geometry and structure*. NGWA 2005 Groundwater Summit. (abstract/poster)
60. ¹Blazevic, M., ¹Napoli, N., Foster, J. and Laton, W.R., 2004. *Subsurface Geologic Investigation of a closed Alluvial Basin: Lucerne Valley, San Bernardino County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
61. ¹Napoli, N., ¹Blazevic, M., Laton, W.R. and Foster, J., 2004. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
62. ²Perez, R., Foster, J. and Laton, W.R., 2004. *Just how deep is it? Alto Deep Well and its impacts to Alto Groundwater Sub-Basin Geology*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
63. ²Hunt, S. and ^{*}Laton, W.R., 2004. *Update on Geochemical Analysis of the Central Basin, Los Angeles County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
64. ²Haj-Manouchehri, D. And Laton, W.R., 2003. *Water Quality in Relation to Watershed Management in the Lower San Gabriel River, Southern California*. WRI conference (abstract/poster)
65. Laton, W.R., 2003. *Lessons Learned; Groundwater Flow Model – Taylor Yard, Los Angeles*. South Coast Geological Society. October 6, 2003. (Invited – presentation)
66. ^{*}Laton, W.R. and ¹Dolmat, J., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. National Ground Water Conference. (abstract/TIPS)
67. ²Figueroa, O. and ^{*}Laton, W.R., 2003. *Ground Water Modeling of a Coastal Aquifer Malibu, California*. National Ground Water Conference. (abstract/TIPS)
68. ²Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Water Level Monitoring, Lower Borrego Canyon Wash, Irvine CA*. National Ground Water Conference. (abstract/TIPS)
69. ²Hasegawa, S. and Laton, W.R., 2003. *Risk Assessment of Point and Non-Point Source Pollution on Water Resources along the Santa Ana River*. California Groundwater Conference. (abstract/poster)
70. ¹Dolmat, J. and Laton, W.R., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. California Groundwater Conference. (abstract/poster)
71. ²Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Precipitation Induced Recharge Data Lower Borrego Canyon Wash, Orange County California*. California Groundwater Conference. (abstract/poster)
72. ²Hunt, S. and ^{*}Laton, W.R., 2003. *Geochemical Analysis of the Central Basin, Los Angeles County, California*. California Groundwater Conference. (abstract/poster)
73. Laton, W.R., 2002. *Taylor Yard and Los Angeles River, Preliminary Groundwater and Surface Water Study Groundwater Model of Taylor Yard and Vicinity Los Angeles, California*. NGWA National Meeting. (abstract/poster)
74. ¹Otto Figueroa and ^{*}Laton, W.R., 2002. *Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California*. NGWA National Meeting. (abstract/poster)

75. *Laton, W.R., ²Sean Hunt, and Foster, J., 2002. *The Impact of Groundwater – Surface Water Interaction on Contaminant Distribution, San Elijo Lagoon, California*. NGWA National Meeting. (abstract/poster)
76. Laton, W.R., 2002. – *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy. (Invited – presentation)
77. Laton, W.R., 2001. Distance Calibration of Earth Images – To design and develop a Web delivered lesson showing an Advance in Information Technology that can be used in a Science Learning Environment for In-service Teachers (online lesson plan).
78. Laton, W.R., 2001. *The Role of Groundwater in Geologic Hazards*. California Science Academy (CEA-Crest). (abstract/presentation)
79. Laton, W.R., 2001. *Natural Hazards Mapping, Thailand*. Thailand Geological Survey. (presentation)
80. Laton, W.R., 2001. *Subsidence evaluation and assessment, Bangkok, Thailand*. Thailand Geological Survey. (presentation)
81. *Laton, W.R., *¹Perez, R., and *¹Figuroa, O., 2000. *Natural Hazard Mapping – A GIS Approach*. CSUF Geology Department.
82. Laton, W.R., 2000. *Natural Hazards Assessment of Temecula, California*. San Diego Association of Geologists annual field trip. (presentation)
83. *Sauck, W. A., Laton, W.R., ²Seng, D.L., and ²Vandereide, M.A., 2000. *Ground-penetrating radar investigations of nearshore sediments of eastern Lake Michigan*. IAGLR 2000.
84. Laton, W.R., 1999. *Watershed Management and Sampling Protocol*. Korean Ministry of Environment and Environmental Management Corporation short course. (Invited – presentation)
85. Laton, W.R., 1999. *Environmental Sampling – what, when and why*. Port of Los Angeles, Environmental Group. (Invited – presentation)
86. Laton, W.R., 1998. *Single Point Pneumatic Slug Test, Soil Vapor Extraction (SVE) Testing During Initial Site Investigation*. Hazardous Waste Section, SMARTech '98, Raleigh, NC. (abstract/presentation)
87. Laton, W.R., 1998. *SimulProbe® Environmental Core Barrel*. EPA National Site Assessment Conference. Denver, CO. (Invited – presentation)
88. *Marcus, D.L., ²Bonds, C.L. and Laton, W.R., 1997. *Rapid Screening using the SimulProbe Multimedia Sampler – Case Histories and Future Directions*. New England Environmental Exposition. (abstract/presentation)
89. *²Laton, W.R., ²Hascall, A.P., ²Atekewana, E.A., Hampton, D.R., 1996. *Seepage Meter Spatial and Temporal Variability in the Study of Groundwater Interaction with Surface Water Features*. American Geophysical Union, San Francisco, CA. (abstract/presentation)
90. ²Laton, W.R., 1996. *Well Grouting Research*. Michigan Environmental Health Association, Ground Water Conference, Thompsonville, MI. (Invited – presentation)
91. ²Laton, W.R., 1996. *SimulProbe Sampling in Contaminated Areas*. University of Michigan Summer Hydrogeology Field Course, Wortsmitth Research Center, MI. (demonstration/presentation)
92. *Barnes, D.A., ²Kovacich, M.S., ²Limez, S., and ²Laton, W.R., 1995. *Error Analysis in Great Lakes Beach Profile Surveying Techniques*. Canadian Coastal Conference, Dartmouth, Nova Scotia. (abstract/presentation)
93. ²Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Colloquium on Environmental Earth Science, Western Michigan University, Kalamazoo, MI. (presentation)
94. ²Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Hi-Shots International Conference, Saint Louis, Missouri. (Invited – presentation)

95. *Mackey, S.D., Guy, D.E., ²Laton, W.R., and ²Kovacich, M., 1994. *Geologic Framework of an Eroded Lake Erie Coastal Marsh – Metzger Marsh, Ohio*. North-Central Geological Society of America, Kalamazoo, Michigan. (abstract/presentation)
96. *Vincent, R.K., ²Laton, W.R. and ²Sattler, J., 1993. *Detailed Modeling of Solid Waste Landfill Surface Water Run-off from High Resolution Elevation Data Automatically extracted From Stereo Photos Taken by a Camera on a Tethered Balloon Platform*. Association of Engineering Geologists, San Antonio, Texas. (abstract/presentation)
97. ²Laton, W.R., 1993. *Site Characterization and Mapping Utilizing a Tethered Balloon System*. HI-SHOTS International Convention, Saint Louis, Missouri. (Invited – presentation)
98. ²Laton, W.R., 1992. *Coastal Processes and Use of a Blimp*. Shoreline Erosion and Coastal Processes in Berrien County, Lake Michigan College Environmental Center, St. Joseph, Michigan. (abstract/presentation)
99. ²Laton, W.R. and Straw, W.T., 1992. *Small-Scale Coastal Cells; Identification and Mapping*. First Thematic Conference, Remote Sensing for Marine and Coastal Environments, New Orleans, Louisiana. (abstract/poster)
100. ²Laton, W.R., 1991. *Undercurrent Stabilization Anchor Systems at Tawas on Lake Huron and Douglas on Lake Michigan – A One-Year Study*. Michigan Academy of Science, Ypsilanti, Michigan. (abstract/presentation)

¹Undergraduate Student; ²Graduate Student; * Presenter

SUPERVISED COMPLETED THESES

Bachelors (BS)	Student Name	Year	Degree	Thesis Title
	Cragg, Byron	2018	BS	Designing Scientific Payloads for Use on Extra-Planetary Rovers
	Vanderwal, Joshua	2018	BS	Safety Element for Cal State University Fullerton – Understanding of Hazards Surrounding the Campus
	Escobar, Adrian	2018	BS	Ground Source Heat Pump Potential Characterization for California State University, Fullerton
	Meadows, Adam	2018	BS	Investigation and Monitoring the Spread of Water Contaminates Using an Open-Source Database in the Orange County Area
	Alonzo, Terrinda	2018	BS	13-Year Analysis of Water Pressure and Chemical Changes from Well CSF-1, Fullerton, CA
	Ibarra, Nancy	2016	BS	Drilling Methodology: A Field Guide and its Use for the Drilling Industry
	Masters, John Paul	2015	BS	Subsurface Analysis of fluvial sediments from the Holocene-Pleistocene Epochs at California State University, Fullerton, California
	Natividad, Anthony	2015	BS	A Hydrogeological Survey of a Mountainous Region: The Significance of Monitoring a Water Budget at a Localized Source
	Law, Natalie	2014	BA	Evolution and Growth of a Mitigation Wetland A Case Study in Norco, California
	Cortez, Lucy	2014	BS	Wetlands Delineation using Dendrochronology and Historical Rainfall Data to Crossdate the Climatic Stress Regimes in the Prado Dam Basin Located in Corona, Riverside County, California
	Irani, Fabian	2013	BS	The Use of Groundwater Fluctuations in a Tidal Zone for the Determination of Aquifer Properties
	Dubberke, Kirk	2013	BS	Malibu Creek Watershed – Aquifer Testing Analysis
	Cadaret, Erik	2012	BS	Hydrogeologic Investigation and Geochemistry Analysis of the Sheep Creek Fans Regional Aquifer, San Bernardino County, CA
	Dotzer, Alec	2012	BS	Lithologic Analysis of a Soil Layer at Various Points via a Biosparge Pilot Test at a Contaminant Impacted Site in Coachella Valley, Riverside County, CA
	Daley, Dale	2008	BS	Subsurface Mapping of the El Mirage Groundwater Barrier, San Bernardino County, California
	Cruikshank, Michael	2006	BS	Hydrogeological Investigation of an Open Alluvial Basin: Oeste Hydrologic Sub-basin, San Bernardino County, California
	Dolmat, Joan	2006	BS	Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting
	Blazevic, Mike	2005	BS	Hydrogeological Investigation of a Closed Alluvial Basin: Lucerne Valley, San Bernardino County, California
	Napoli, Nick	2005	BS	Change in Groundwater Storage in the Lucerne Valley Groundwater Sub-Basin — 1954 To 2002, Lucerne Valley, California

<i>Bachelors (BS)</i>	Student Name	Year	Degree	Thesis Title
	Brendle, Christine	2004	BS	Remediation of Soil and Groundwater at a Former Service Station
	Evans, Rachel	2003	BS	Water Quality Analysis – Yellowstone National Park
	Thomas, Sean	2003	BS	Dewatering Plan for the El Toro Area
	Wiles, Steffy	2002	BS	Angels Camp – Gamma Ray Logging Examination and Correlation
	Figueroa, Otto	2002	BS	Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California
	Brand, Randy	2002	BS	Hydrogeologic and Geologic Considerations for Selected sites near the Santa Margarita, Upper Ysidora, and Lower Ysidora Groundwater Basins in Southern California
	Vortis, Kevin	2001	BS	Geologic History of San Elijo Lagoon San Diego County, California
	Rashidi-Fard, Shaghayegh	2001	BS	Water Quality Testing and Monitoring Program at the Santa Rosa Ecological Reserve
	Fields, David	2001	BS	Orange County Groundwater Contour Maps for 2000

	Student Name	Year	Degree	Thesis Title
Masters (MS)	Emilio, Chelsea	2018	MS-Enst	Urban Firework Fallout
	Case, Aaron	2018	MS-Enst	Perchlorate in Urban and Industrial Environments
	Offner, Erica	2018	MS-Enst	Carbon Dioxide Levels in Water Vapor
	Lopez, Daniel	2018	MS-Enst	Should California Price Water as a Commodity to Increase Conservation?
	Masters, John Paul	2017	MS-Enst	Subsurface Analysis of Orange County Water District's La Palma Groundwater Recharge Basin in Anaheim, California
	Kennedy, Taylor	2017	MS-Enst	Investigation of the Laguna Cell Beaches Using Lidar and Erosional Examination
	Grajeda, Remington	2017	MS-Enst	Shaping Environmental Attitudes in Students: An Inquiry-based Approach
	Pham, Christine	2016	MS-Enst	Efficacy of Capsaicin-based epoxy coating for preventing attachment of Quagga mussels (<i>Dreissena Bugensis</i>)
	Battig, Lisa	2015	MS-Enst	An Educational Kit Elucidating the Connections Between Sanitation, Hygiene and Waterborne Disease
	Morian, Randall	2014	MS	The Effects of Agricultural Activities on the Migration of the Hinkley Chromium Plume, San Bernardino County, California
	Carreon, Rosangela	2014	MS-Enst	Remote Sensing Climatic Impact on Snow Cover for the San Gabriel Mountains in Southern California
	Vavricka, Emily	2013	MS-Enst	A Forensic Evaluation of Dry Cleaners: A Case Study in Santa Ana, California
	Lockhart, Benjamin	2013	MS-Enst	Colonial Nesting Seabirds in Burris Basin: Forage Prey Availability Assessment and Habitat Enhancement Suggestions
	Maine, Lindsay	2013	MS-Enst	Media Blending: Which Combination is Best for Stormwater Discharge from Scrap Metal Recycling Operations?
	Martin, Allen	2012	MS-Enst	Lower Owens River Project, Recovery: A longitudinal imagery analysis of near river vegetation change along the Owens River, Owens Valley, Inyo County, California
	Hoffman, Michael	2012	MS	Hydraulic Tomographic Modeling of the Yorba Linda Water Well Field, Yorba Linda, California
	Sickler, Heidi	2012	MS-Enst	Environmental Change in the Wetland Ecosystem of Fish Slough in Bishop, California Derived from Wetland Delineation Methods and Aerial Photography
	Xayarath, Van	2012	MS-Enst	Orange County's Water Supply: A preliminary research to convert storm channels to natural bottom streams for basin recharge
	Rimbenieks, Mikaila	2011	MS-Enst	Quantifying Forest Natural Background and Road Sediment Yield in Big Bear Lake, California
	Evans, Patrick James	2011	MS-Enst	Desalination in Southern California: The Inevitable wave of the future!
Barker, Shelby	2010	MS	An Investigation of the Potential for Surficial Recharge in the Lucerne Valley Groundwater Basin, Mojave Desert, CA	
Luedy, Justin	2009	MS-Enst	Testing the Relationship of Dissolved Metals in Stormwater, Newport Beach, California	

Masters (MS)	Student Name	Year	Degree	Thesis Title
	Monzon, Eric	2008	MS-Enst	Estimating Applied Irrigation for Urban Landscapes in South Coast Southern California, Using Theoretical and Conventional Means
	Barthel, Peggy	2008	MS	Water Budget and Hydrogeologic Model of Spring Flow at Limestone Hill, Zzyzx Desert Studies Center
	Ebbs, Veva	2007	MS-Enst	Groundwater flow into Harper Lake, California
	Kolstad, Kenneth	2007	MS	Analysis of a Steady-State Model: Prediction of Trichloroethylene Vapor Concentration, Using Known Dissolved Phase Concentration
	Lizzi, Anthony	2007	MS	Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California
	Patschull, Eric	2007	MS	Evidence of a North Projecting Ancient Boulder Thalweg in Latest Quaternary Deposits of the Santa Ana River, Orange County, California
	Hunt, Sean	2006	MS	Artificial Recharge as Possible Causes of Observed Long -Term Change in Transmissivity for the Aquifers of the San Pedro Formation in the Central Basin of the Greater Los Angeles Basin, California
	Williams, Steve	2006	MS	Hydrogeologic Investigation of a Shallow Aquifer System with Emphasis on Precipitation Induced Groundwater
	Nguyen, Chinh	2005	MS-Enst	Application of Convex Hull in Identifying Pollution Sources in the Central and West Coast Basins, Los Angeles County, California
	McCurdy, Jim	2004	MS-Enst	Water Chemistry and Groundwater Flow for the San Bernardino Mountains
	Versluis, Patrick	2004	MS-Enst	The Fate of Perchlorate: A Look at Perchlorate Entering Orange County's Groundwater
	Hajmanouchehri, Daneh	2004	MS-Enst	Water Quality in Relation to Watershed Management in The Lower San Gabriel River, Southern California
	Yuen, Pansy	2004	MS-Enst	Performance Assessment on Water Quality and Biological Effects of Urban Stormwater Runoff, Norco Hills Wetland, Riverside County, California
	Figuroa, Otto	2003	MS	Groundwater Flow Model of a Coastal Aquifer, Malibu, California
	Hasegawa, Shuichi	2003	MS-Enst	Environmental Hazard Risk Assessment on Water Resources along the Santa Ana River
	Kerza-Kwiatecki, Paul	2003	MS-Enst	Monitoring the Rocky Inter-Tidal Zone of Crystal Cove State Park; Creation of an interactive GIS bio-database
Springer, Ben	2003	MS-Enst	The Importance of Wetland Monitoring: A Case Study of a Restored Wetland in Norco, California	
Rosales, Tom	2002	MS-Enst	An examination of the benefits and costs to implement the Municipal Storm Water Permit for Orange County – similarities and differences between coastal and inland cities	
Schmucker, Kelly	2002	MS-Enst	Water Quality of a Wetland A Case Study in Norco, CA	
Eckhart, Lance	2001	MS-Enst	Vertical Gradient Investigation of a Southern California Landfill	

SELECTED SHORT-COURSES, WORKSHOPS ATTENDED

- Johnson Screens – Groundwater and Wells
- IGSHPA – Train the Trainer Course
- NGWA – Keeping the Pump Primed; Aquifer Sustainability
- AAPG – Environmental Regulatory Course
- Advanced Technologies for Accelerated Natural Attenuation
- Applied Microbiology – Understanding Bacterial Augmentation, Montreal, Canada
- Baroid Industrial Drilling Products – Drilling and Boring Fluids (Workshop)
- CWEA – How to Start, Perform and Complete a Successful Public Works Water/Wastewater Project
- EPA – Bioremediation of Hazardous Wastes: Research, Development, and Field Evaluations
- EPA – Natural Attenuation; EPA – Statistical Analysis of Ground Water Data (GRITSTAT)
- EPO/GRA – Aquifer Remediation: Bioremediation and Oxidation Technologies
- FEMA – Advanced HAZUS Training for GIS Professionals
- Managing Toxics in Michigan – Air, Waste and Remediation (Workshop)
- MGWA & MDPH – Ground Water & Wells Fundamentals
- Michigan Citizens Conference/Workshop on Great Lakes Areas of Concern
- NGWA – Remediation of Ground Water Contamination
- NSF – The Cutting Edge “Teaching Hydrogeology in the 21st Century”
- Protecting Water Quality through Land Use Planning & Zoning (Workshop)
- Reducing Risk in High Seismic Hazard Zones
- Seismic Reflection/Refraction Interpretation (Workshop)

AFFILIATIONS

- California Groundwater Association
- California Hydrological Society
- Groundwater Resources Association of California
- International Association of Hydrogeology
- National Ground Water Association
- International Ground Source Heat Pump Association

VOLUNTEER WORK

- Santiago Middle School – Taught Plate Tectonics and Science (2018)
- CSUF Alumni Fall Dinner (2013-present)
- CSUF Geology Research Day (2017-present)
- Science Olympiad Assistant (2013- present)
- Elementary School presentations annually: “The Water Cycle”
- Little League: Coaching assistant, score keeper (2010 – present)
- CSUF – Gerontology Seminar Series (2005)
- Boy Scouts of America Troop, Identification of Rocks (2000 – 2008)
- NGWA – Developed on-line Well Construction and Development Course (2004)
- El Dorado Nature Center – Provided expertise for a variety of activities.
- National Sanitary Foundation – Worked on task force to rewrite standards for water well materials.

COPY

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2 **Attorney at Law**
3 16195 Siskiyou Rd., Suite 130
4 Apple Valley, CA 92307
5 Telephone: (760) 946-9910
6 Facsimile: (760) 946-9920

FILED
SUPERIOR COURT OF CALIFORNIA
COUNTY OF RIVERSIDE

OCT 01 2018

D. Williams

6 Attorney for Plaintiff, NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION

9 SUPERIOR COURT OF THE STATE OF CALIFORNIA
10 COUNTY OF RIVERSIDE

11 CITY OF BARSTOW, et al.
12 Plaintiffs,
13
14 vs.
15 CITY OF ADELANTO, et al.
16 Defendants,
17 AND RELATED CROSS-ACTIONS

CASE NO: CIV 208568
PROOF OF SERVICE

Hearing Information:
Date: October 12 2018
Time: 1:30 PM
Dept: 5
Before the Hon. Craig G. Riemer, Judge

19 I, JACKIE J. GRAY, DECLARE:

28 ///

1 PROOF OF SERVICE

2 STATE OF CALIFORNIA, COUNTY OF SAN BERNARDINO

3 I am employed in the County of San Bernardino, State of California. I am over the age of 18 and not
4 a party to the within action. My business address is 16195 Siskiyou Rd., Suite 130, Apple Valley, CA 92307.

5 On October 1, 2018, I served the within documents described as NEWBERRY SPRINGS
6 RECREATIONAL LAKES ASSOCIATION BRIEF IN RESPONSE TO THE STATUS CONFERENCE
7 ORDER OF JULY 9, 2018; DECLARATION OF DR. W. RICHARD LATON, PG, Chg;
8 DECLARATION OF DIANA J. CARLONI RE: STANDING AND THE RIGHT OF NEWBERRY
9 SPRINGS RECREATIONAL LAKES ASSOCIATION TO APPEAR AND RESPOND TO THE
10 STATUS CONFERENCE ORDER OF JULY 9, 2018; DECLARATION OF DR. W. RICHARD
11 LATON, PG, Chg - SUPPLEMENTING THE RESPONSE OF NEWBERRY SPRINGS
12 RECREATIONAL LAKES ASSOCIATION TO THE STATUS CONFERENCE ORDER OF JULY 9,
13 2018, on the interested parties in this action, as follows:

14 By email or electronic transmission to the Watermaster and its counsel at the e-mail addresses listed
15 below, and I did not receive, within a reasonable time after the transmission, any electronic message or
16 other indication that the transmission was unsuccessful;

17 By messenger service to the Watermaster; I served the documents by emailing them Bosco Legal
18 Services, a professional messenger service for service; A Declaration of Messenger will subsequently be
19 filed; and Via, Watermaster to all parties to the action, pursuant to the Judgment of this case and the
20 Mojave Basin Area Watermaster's Rules and Regulations paragraph 8.B which provides that service to
21 be the responsibility of the Watermaster and paragraph 10.D, which provides that a party's service
22 obligation is satisfied upon delivery of a copy of the conformed documents as filed with the Court. As of
23 today, the Watermaster has not set a service fee. Per the Watermaster's request, I will cause a check to
24 be delivered to Watermaster upon being notified of the Watermaster's service costs.

25 Mojave Basin Area Watermaster
26 c/o Valerie L. Wiegenstein,
27 Watermaster Services Manager
28 13846 Conference Center Drive Apple Valley, CA 92307-4377
watermaster@mojavewater.org

19 [x] **BY MAIL.** I caused such envelope, as indicated on the addresses noted above and/or the
20 attached service list, with postage thereon fully prepaid to be placed in the United States mail at
21 San Bernardino, California. I am readily familiar with the firm's business practice for collection
22 and processing of correspondence for mailing with the United States Postal Service and that the
23 foregoing document was placed for collection and mailing in accordance with ordinary business
24 practices pursuant to *Code of Civil Procedure*, Section 1013a.

25 William J. Burnick Leland P. McElhaney
26 Brunick, McElhaney & Kennedy PLC
27 1839 Commercenter West
28 San Bernardino, CA 92408-3303
bbrunick@bmblawoffice.com

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

Executed on October 1, 2018, at Apple Valley, California.

By: _____

Jackie J. Gray

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 1, 2018, 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:

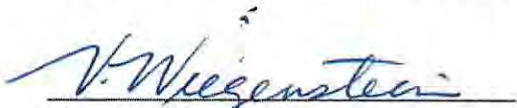
**NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION BRIEF IN
RESPONSE TO THE STATUS CONFERENCE ORDER OF JULY 9, 2018;
DECLARATION OF DR. W. RICHARD LATON, PG, Chg.**

**DECLARATION OF DR. W. RICHARD LATON, PG, Chg. SUPPLEMENTING THE
RESPONSE OF NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION TO
THE STATUS CONFERENCE ORDER OF JULY 9, 2018**

**DECLARATION OF DIANA J. CARLONI RE: STANDING AND THE RIGHT OF
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION TO APPEAR AND
RESPOND TO THE STATUS CONFERENCE ORDER OF JULY 9, 2018**

 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 1, 2018 at Apple Valley, California.


Valerie Wiegenstein

Mojave Basin Area Watermaster Service List as of October 01, 2018

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

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

Adelanto, City Of
11600 Air Expressway
Adelanto, CA 92301-1914
Attn: Deborah Buckingham

Ades, John and Devon (via email)
(DevonAdes@verizon.net)

Aerochem, Inc. (via email)
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El Mirage, CA 92301-9489
Attn: Kent T. Christenson
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Attn: Lori Clifton
(lclifton@robarenterprises.com)

Ahn Revocable Living Trust (via email)
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Attn: Chun Soo and Wha Ja Ahn
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Ahn Revocable Trust (via email)
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Attn: Simon Ahn (ssahn58@gmail.com)

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Ahn, Chun Soo and Wha Ja (via email)
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Ake, Charles J. and Marjorie M.
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American States Water Company
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Anderson, Ross C. and Betty J.
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Apple Valley Foothill County Water District
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Attn: Daniel B. Smith (avfcwd@hotmail.com)

Apple Valley Heights County Water District
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Attn: Matthew Patterson

Apple Valley Unified School District
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Attn: Mathew Schulenberg

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

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

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Attn: Angel Arguelles

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Fort Worth, TX 76131-2825
Attn: Blaine Bilderback

Atchison, Topeka, Santa Fe Railway
Company (via email)
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Attn: Dean Forshee (Dean.Forshee@bnsf.com)

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Attn: Daniel Shaw (barhwater@gmail.com)

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Bar-Len Mutual Water Company (via email)
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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Bass Trust, Newton T.
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Apple Valley, CA 92307-4912
Attn: Barbara Davison

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Attn: Remo E. Bastianon

Beebe, Robert W. and Dorothy K.
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Hesperia, CA 92345

Beinschroth Family Trust
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Apple Valley, CA 92307-5342
Attn: Mike Beinschroth

Bell, Chuck (via email)
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(chuckb@sisp.net)

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

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Winchester, CA 92596-8793
Attn: Roberta Borgogno

Borja, Leonil T. and Tital L.
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Attn: Alicia Alexander

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Attn: Marvin and Carroll Brommer

Brown, Bobby G. and Valeria R.
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Helendale, CA 92342-9789
Attn: Paul Johnson

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Attn: Jason Kratz (Jason.Kratz@associa.us)

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Claremont, CA 91711
Attn: Robert W. Bowcock

CalMat Company
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CalPortland Company - Agriculture (via email)
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Attn: Carol Deck (cdeck@calportland.com)

CalPortland Company - Oro Grande Plant (via email)
2025 East Financial Way
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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Casa Colina Foundation
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CDFW - Camp Cady (via email)
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Alisa.Ellsworth@wildlife.ca.gov)

CDFW - Mojave Narrows Regional Park
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San Bernardino, CA 92415-0763
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CDFW - Mojave River Fish Hatchery (via
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Attn: Carin McKay

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El Mirage, CA 92301-9500
Attn: Mary M Ross

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Club View Partners
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Corbridge, Linda S.
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Cross, Francis and Beverly
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Jerome, ID 83385-5256

Cross, Sharon I.
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Crystal Lakes Property Owners Association
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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Darr, James S.
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Boron, CA 93516

De Jong Family Trust
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Attn: Alan L. De Jong

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

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

Desert Springs Mutual Water Company
P. O. Box 396
Lucerne Valley, CA 92356-0396
Attn: Denise Courtney

DJC Corporation
35300 Old Woman Springs Road
Lucerne Valley, CA 92356-7706
Attn: Magdalena Jones

Docimo Living Trust, Allen Lee
48275 Silver Valley Road
Newberry Springs, CA 92365-8505
Attn: Allen Lee Docimo

Dolch, Robert and Judy
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Attn: Larry Warren

Donaldson, Jerry and Beverly
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Dora Land, Inc.
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Dorrance, David W. and Tamela L.
2027 Valleria Court
Sugar Land, TX 77479-
Attn: David Dorrance

Dowell, Leonard
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Evenson, Edwin H. and Joycelaine C.
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Villa Park, CA 92861-1302
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Eygnor, Robert E.
23032 Bryman Road
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Federal Bureau of Prisons, Victorville (via email)
P. O. Box 5400
Adelanto, CA 92301-5400
Attn: David Dittenmore
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Fischer Revocable Living Trust (via email)
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Fisher Trust, Jerome R.
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Attn: Paul Johnson

Frates, D. Cole (via email)
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Frazier, et al.
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Friend, Joseph and Deborah
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Attn: Deborah A. Friend

Fundamental Christian Endeavors, Inc. (via email)
49191 Cherokee Road
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Gabrych, Eugene
2006 Old Highway 395
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Gabrych, Eugene
2006 Old Highway 395
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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Gaeta, Miguel and Maria
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Lucerne Valley, CA 92356-8273

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

Gaines Family Trust, Jack and Mary (via email)
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Garcia, Daniel
9773 Summerhill Rd.
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Gardena Mission Church, Inc.
P. O. Box 304
Lucerne Valley, CA 92356-0304
Attn: Sang Hwal Kim

Garg, Om P.
178 Follyhatch
Irvine, CA 92618-1050

Gayjikian, Samuel and Hazel
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Attn: Brent Peterson

GenOn Energy, Inc. (via email)
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Attn: Eric Leuze (Eric.Leuze@nrg.com)

Golden State Water Company (via email)
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Grill, Nicholas P. and Millie D. (via email)
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Hinkley, CA 92347

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Haas, Bryan C. and Hinkle, Mary H. (via email)
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Hal-Dor Ltd.
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Lucerne Valley, CA 92356
Attn: Magdalena Jones

Hamilton Family Trust
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Apple Valley, CA 92308-8338
Attn: Doug and Cheryl Hamilton

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Attn: William Handrinos

Hanify, Michael D., dba - White Bear Ranch
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Attn: Donald F. Hanify

Hanson Aggregates WRP, Inc. (via email)
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Attn: Matt Wood (Matt.Wood@Hanson.com)

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Attn: Mary Jane Hareson

Harmsen Family Trust (via email)
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Attn: Kenny Harmsen (harmsencow@aol.com)

Harper Lake Company VIII (via email)
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Attn: Joseph Faubus (Glen.King@fpl.com)

Harper Lake, LLC (via email)
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Attn: Henry Orlosky
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Mojave Basin Area Watermaster Service List as of October 01, 2018

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(ChristMuscle@aol.com)

Hensley, Mark P.
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Hinkley, CA 92347-9613

Hesperia Venture I, LLC (via email)
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Attn: Janie Martines (jmartines@tvglc.com)

Hettinga Revocable Trust (via email)
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Ontario, CA 91762-7704
Attn: Patricia Mohr (ghd123@earthlink.net)

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

Hill Family Trust and Hill's Ranch, Inc. (via email)
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Ashland, OR 97520-
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Hollister, Robert H. and Ruth M.
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Newberry Springs, CA 92365-0002
Attn: Joan Rohrer

Hong, Paul B. and May
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Covina, CA 91722-0432
Attn: Paul Hong

Harvey, Lisa M. (via email)
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(harveyl.92356@gmail.com)

Helendale Community Services District (via email)
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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Thayer, Sharon
35924 Harvard Drive
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Thompson Living Trust, James A. and Sula B.
22815 Del Oro Road
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Attn: Lynnette L. Thompson

Thunderbird County Water District
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Attn: Roy Shull

Turner, Terry
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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Mojave Basin Area Watermaster Service List as of October 01, 2018

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Southern California Gas Company
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Vander Dussen Trust, Agnes & Edward (via
email)
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Blue Jay, CA 92317-
Attn: Agnes Vander Dussen Koetsier
(beppeauk@aol.com)

1 **PROOF OF SERVICE**

2 **STATE OF CALIFORNIA, COUNTY OF SAN BERNARDINO**

3 I am employed in the County of San Bernardino, State of California. I am over the age of 18 and not
4 a party to the within action. My business address is 21001 N. Tatum Blvd., Suite 1630-455, Phoenix, AZ
85050.

5 On October 9, 2024, I served the within documents described as:
6 Amended RESPONSE BY NEWBERRY SPRINGS RECREATIONAL LAKES
7 ASSOCIATION TO GOLDEN STATE WATER COMPANY'S MOTION TO ENFORCE
8 JUDGMENT; DECLARATION OF DR. W. RICHARD LATON, PG, CHG, SUPPORTING
9 THE RESPONSE, on the interested parties in this action, as follows:

10 **By email or electronic transmission to the Watermaster and its counsel** at the e-mail addresses listed
11 below, and I did not receive, within a reasonable time after the transmission, any electronic message or
12 other indication that the transmission was unsuccessful; and

13 By messenger service to the Watermaster, the documents referred to hereinabove were personally
14 delivered to the Watermaster by Rapid Attorney Service, a professional Service of Process/messenger
15 service; A Declaration of Messenger will subsequently be filed; and Via, Watermaster to all parties to the
16 action, pursuant to the Judgment of this case and the Mojave. Basin Area Watermaster's Rules and
17 Regulations paragraph 8.B which provides that service to be the responsibility of the Watermaster and
18 paragraph 10.D, which provides that a party's service obligation is satisfied upon delivery of a copy of
19 the conformed documents as filed with the Court. As of today, the Watermaster has not set a service fee.
20 Per the Watermaster's request, I will cause a check to be delivered to Watermaster upon being notified of
21 the Watermaster's service costs.

22 Mojave Basin Area Watermaster
23 c/o Valerie L. Wiegenstein,
24 Watermaster Services Manager
25 13846 Conference Center Drive Apple Valley, CA 92307-4377
26 watermaster@mojavewater.org
27 vwiegenstein@MojaveWater.org
28 jruesch@MojaveWater.org

William J. Brunick Leland P. McElhaney
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San Bernrdno, CA 92423-3130
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lmcelhaney@bmklawplc.com

24 [X] (State) I declare under penalty of perjury pursuant to the laws of the State of California that the
25 above is true and correct.

26 Executed on October 9, 2024, at Hesperia, California.

27 By:  _____
28 Jackie J. Gray

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:

Amended RESPONSE BY NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION TO GOLDEN STATE WATER COMPANY'S MOTION TO ENFORCE JUDGEMENT; DECLARATION OF DR. W. RICHARD LAYTON, PG, CHG, SUPPORTING THE RESPONSE

 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

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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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