

# Notice and Agenda of a Workshop of the Yucaipa Sustainable Groundwater Management Agency

## Board Meeting

**Wednesday, January 22, 2025 at 10:30 a.m.**

(909) 797-2489 | [www.yucaipasgma.org](http://www.yucaipasgma.org)

**City of Yucaipa, 34272 Yucaipa Boulevard  
Yucaipa, California 92399**

### Meeting Broadcast Information

Zoom Online Access - <https://dudek.zoom.us/j/7101150223>

Meeting ID: 710-115-0223

Telephone Access: (929) 205-6099

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- I. **Call to Order**
  - II. **Roll Call**
  - III. **Public Comments** At this time, members of the public may address the representatives of the Yucaipa Groundwater Sustainability Agency on matters within its jurisdiction.
  - IV. **Approval of Meeting Minutes**
    - A. Board Meeting Minutes - October 30, 2024 [[See Page 4 of 29](#)]
  - V. **Discussion Items**
    - A. Selection of Officers for the Yucaipa Sustainable Groundwater Management Agency
    - B. Review of Conditions in the Yucaipa Subbasin and GSP Sustainability Criteria
    - C. Discussion on Draft Well Ordinance and Well Permitting [[See Page 9 of 29](#)]
    - D. Discussion on DWR Recommended Corrective Actions #4, #5, and #6 for the GSP
    - E. Consideration of Dudek Proposal to Evaluate Methods for Earning Pumping Credits and When They Expire [[See Page 17 of 29](#)]
    - F. Consideration of Dudek Proposal to Provide GSP Implementation Support Services in 2025 [[See Page 24 of 29](#)]
  - VI. **Topics for Future Meetings**
    - A. Policy for transferring pumping credits between appropriators
    - B. Consideration of the groundwater well ordinance and resolution

**VII. Comments by Board of Directors**

**VIII. Announcements - Future Meetings**

- A. Wednesday, April 23, 2025 at 10:30 am - Board Meeting
- B. Wednesday, July 23, 2025 at 10:30 am - Board Meeting
- C. Wednesday, October 22, 2025 at 10:30 am - Board Meeting
- D. Wednesday, January 28, 2026 at 10:30 am - Board Meeting

**IX. Adjournment**

## Roll Call - Board of Directors

	Present	Primary Representative	Present	Alternative Representative
<b>Purveyors</b>				
South Mesa Water Company		David Armstrong		Brittany Lim
South Mountain Water Company		Allison Edmisten		Brett Granlund
Western Heights Water Company		Mark Iverson		Brooke Shorey
Yucaipa Valley Water District		Joseph Zoba		Jennifer Ares
<b>Municipals</b>				
City of Yucaipa		Chris Mann		Fermin Preciado
<b>Regionals</b>				
San Bernardino Valley MWD		Michael Plinski		Adekunle Ojo
San Gorgonio Pass Water Agency		Lance Eckhart		Emmett Campbell

\* Quorum of the Board of Directors requires a total of five Purveyor, Municipal, Regional Members

<b>Stakeholders</b>				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		--
City of Calimesa		Will Kolbow		--

# MINUTES OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

## Board Meeting – October 30, 2024 - 10:30 a.m.

This Board meeting was held at the City of Yucaipa, 34272 Yucaipa Boulevard, Yucaipa, California.

- I. Call to Order - Chairman Mark Iverson called the meeting to order at 10:30 a.m.
- II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong	✓	Brittany Lim
South Mountain Water Company	✓	Allison Edmisten	✓	Brett Granlund
Western Heights Water Company	✓	Mark Iverson	✓	Brooke Shorey
Yucaipa Valley Water District	✓	Joseph Zoba	✓	Jennifer Ares
<b>Municipals</b>				
City of Redlands	✓	John Harris	_____	Paul Mariscal
City of Yucaipa	_____	Chris Mann	✓	Fermin Preciado
<b>Regionals</b>				
San Bernardino Valley MWD	✓	Michael Plinski	_____	Adekunle Ojo
San Gorgonio Pass Water Agency	_____	Lance Eckhart	✓	Emmett Campbell
<b>Stakeholders</b>				
County of Riverside	_____	Steve Horn	_____	Jeff Johnson
County of San Bernardino	_____	Bob Page	_____	
City of Calimesa	_____	Wil Kolbow	_____	

A quorum of the Board of Directors was present to start the meeting.

In addition to the Board of Directors identified above, the following members of the public were registered attendees at the meeting:

Ron Duncan, San Gorgonio Pass Water Agency  
 David Duron  
 Micah Knox, Yucaipa Valley Water District  
 Michele Lieux  
 Joyce McIntire, Yucaipa Valley Water District  
 Yasmeen Nubani, Ortega Strategies Group  
 Nate Scheevel, Scheevel Engineering  
 Larry Smith, San Gorgonio Pass Water Agency  
 Steven Stuart, Dudek  
 Jay West

III. Public Comment:

None

IV. Approval of Meeting Minutes:

Allison Edmisten moved to approve the meeting minutes from April 24, 2024, and July 31, 2024.

David Armstrong seconded the motion.

South Mesa Water Company	Yes
South Mountain Water Company	Yes
Western Heights Water Company	Yes
Yucaipa Valley Water District	Yes
City of Redlands	- -
City of Yucaipa	Yes
San Bernardino Valley MWD	Yes
San Geronio Pass Water Agency	Yes

V. Discussion Items

A. Summary of Conditions in the Yucaipa Subbasin for the 2023-2024 WY

Steve Stuart provided an overview of the climate stations located in the Yucaipa Basin Watershed. Precipitation during the last water year ranged from 23.17 at the Yucaipa NOAA monitoring station at an elevation of 2,776 feet, to a low of 18.84 inches at the County Line Road monitoring station at an elevation of 2,362 feet. Rainfall at the Redlands NOAA monitoring station was 15.15 inches at an elevation of 1,417 feet. Overall, the mean rainfall for the Yucaipa Basin was 19.53 inches which is 125% of normal rainfall of 15.58 inches.

In the North Bench Management Area, water spreading operations exceeded the past five years with about 6,400 acre feet of water recharged into the basin. Municipal pumping by Yucaipa Valley Water District exceeded the Sustainable Pumping Allocation, but sufficient pumping credits exist, and water levels in the Management Area are continuing to trend upwards.

In the Calimesa Management Area, municipal groundwater extractions were below the Sustainable Pumping Allocation for Yucaipa Valley Water District, South Mesa Water Company, and South Mountain Water Company. Private groundwater extractions were above their allotted Sustainable Pumping Allocation. Groundwater elevation trends are continuing to generally increase in the Calimesa Management Area.

In the Western Heights Management Area, the municipal pumping by Western Heights Water Company was less than the Sustainable Pumping Allocation which resulted in upward trends for groundwater elevations in the area.

In the San Timoteo Management Area, the depth to water continued to be above the measurable objective.

B. Presentation on Potential Stream Gaging Stations in Yucaipa Subbasin and Consideration of Next Steps for Funding

Nate Scheevel from Scheevel Engineering provided a presentation focused on stream gaging options and considerations for the Yucaipa Groundwater Sustainability Agency (GSA). Nate Scheevel discussed different types of stream gages, their costs, accuracy, and maintenance requirements. The presentation covered various stream gage options, ranging from basic measuring devices to more complex systems with rating curves and direct flow measurement structures like weirs and flumes. Mr. Scheevel emphasized the trade-offs between upfront capital costs and long-term operation and maintenance (O&M) expenses. He also discussed factors affecting gage selection, such as flow variability, channel characteristics, and desired accuracy.

A key focus was the California Stream Gage Improvement Program (CalSIP), which offers grant funding for installing, upgrading, or reactivating stream gages. The program requires gages to be telemetered to the State's data exchange center and maintained at least six times per year. Mr. Scheevel presented the current status of CalSIP applications across California and outlined the program's schedule.

Two potential gage sites for the Yucaipa GSA were discussed: Live Oak Canyon Road and San Timoteo Canyon Road. For each site, various alternatives were presented with estimated costs and considerations. The Live Oak Canyon site options ranged from a simple pipe flow rating (under \$50,000) to a new bridge with a weir or flume (over \$3 million). The San Timoteo Canyon site alternatives included rating the existing high flow (under \$50,000) to constructing a new weir or flume (over \$5 million).

The discussion highlighted the need to balance data quality, cost, and long-term maintenance commitments when selecting a stream gaging approach.

C. Ratification of Board Approval of Dudek's Proposal to Participate at Private Well Owner Workshop

Steve Stuart discussed the work performed by Dudek related to the preparation and participation in the private well owner workshop on September 25, 2024.

David Armstrong moved to ratify the Dudek contract for this work in the amount of \$12,280. The motion was seconded by Mike Plinski.

South Mesa Water Company	Yes
South Mountain Water Company	Yes
Western Heights Water Company	Yes
Yucaipa Valley Water District	Yes
City of Redlands	
City of Yucaipa	Yes
San Bernardino Valley MWD	Yes
San Gorgonio Pass Water Agency	Yes

D. Update on Private Well Owner Outreach & Workshop

Steve Stuart provided an overview of the outreach efforts and workshop held for the benefit of the Private Well Owners. There was a general consensus to conduct an annual community meeting to discuss the current issues and progress of the Yucaipa Sustainable Groundwater Management Agency with the community each Spring.

E. Update on Executive Order N-3-24 and Draft Well Ordinance

Steve Stuart discussed the issuance of Executive Order N-3-24, which terminated the drought state of emergency in most counties and provisions in previous executive orders that required GSAs to review well permit applications. The draft well ordinance will be revised to exclude references to the terminated executive orders, but retain the requirements for new wells to include a flow meter, sounding port, and sampling port. There was a general consensus to request that San Bernardino and Riverside counties continue to provide the GSA with copies of well permit applications to stay apprised of the installation or refurbishments of wells in the Yucaipa Subbasin.

F. Consideration of Resolution Accepting the Withdrawal of the City of Redlands from the Yucaipa GSA.

Steve Stuart presented the background related to Resolution No. 2024-01.

Joseph Zoba moved to approve Resolution No. 2024-01 accepting the withdrawal of the City of Redlands from the Yucaipa Groundwater Sustainability Agency. The motion was seconded by Allison Edmisten.

South Mesa Water Company	Yes
South Mountain Water Company	Yes
Western Heights Water Company	Yes
Yucaipa Valley Water District	Yes
City of Redlands	--
City of Yucaipa	Yes
San Bernardino Valley MWD	Yes
San Gorgonio Pass Water Agency	Yes

G. Consideration of Dudek Proposal to Prepare for and Participate in Pumping Credits Workshop

Steve Stuart provided an overview of Dudek’s preparation and participation in the Pumping Credits Workshop scheduled for November 20, 2024.

Joseph Zoba moved to approve the proposal from Dudek for a sum not to exceed \$9,000. The motion was seconded by David Armstrong.

South Mesa Water Company	Yes
South Mountain Water Company	Yes
Western Heights Water Company	Yes
Yucaipa Valley Water District	Yes
City of Redlands	--
City of Yucaipa	Yes

San Bernardino Valley MWD	Yes
San Gorgonio Pass Water Agency	Yes

H. Consideration of Dudek Proposal to Address DWR Recommended Corrective Actions #3, # 4, 5, and #6 for the GSP

Steve Stuart provided an overview of the planned responses to the recommended actions suggested by the Department of Water Resources in correspondence dated January 18, 2024.

There was a general consensus to further discuss this item to best determine how to best respond to the nine recommended corrective actions suggested by the Department of Water Resources.

VI. Topics for Future Meetings - The following topics were listed for discussion at a future meeting.

- Policy for transferring pumping credits between groundwater users.
- Consideration of the groundwater well ordinance and resolution

VII. Comments by the Board of Directors:

None

VIII. Announcements

The next scheduled meeting of the Yucaipa Sustainable Groundwater Management Agency will be a workshop on Wednesday, November 20, 2024, at 10:30 am.

Future board meetings are scheduled for the following dates:

- Wednesday, January 22, 2025, at 10:30 am - Board Meeting
- Wednesday, April 23, 2025, at 10:30 am - Board Meeting
- Wednesday, July 23, 2025, at 10:30 am - Board Meeting
- Wednesday, October 22, 2025, at 10:30 am - Board Meeting
- Wednesday, January 28, 2026, at 10:30 am - Board Meeting

IX. Adjournment - The meeting was adjourned at 12:15 pm.



# ORDINANCE 2025-01

**An Ordinance of the Yucaipa Groundwater Sustainability Agency Regulating the Construction, Reconstruction, Abandonment, and Destruction of Wells and Incorporating by Reference San Bernardino County Code Sections 33.0630 to 33.0645 and Riverside County Ordinance 682.6**

## 1 Purpose

In 2014, the California State Legislature adopted the Sustainable Groundwater Management Act (Wat. Code § 10720 *et seq.*) (SGMA). In furtherance of the SGMA, the California Department of Water Resources (DWR) promulgated Subchapter 2 (commencing with Section 350) of Chapter 1.5 of Division 2 of Title 23 of the California Code of Regulations (GSP Regulations).

The SGMA empowered local agencies to form Groundwater Sustainability Agencies (GSAs) to develop and adopt Groundwater Sustainability Plans (GSPs). The goal of developing and implementing GSPs is to manage the use of local groundwater resources sustainably for long-term reliability and multiple economic, social, and environmental benefits for current and future users. Among the legislative purposes of the SGMA are for California's groundwater basins to be managed sustainably "through the actions of local government agencies to the maximum extent feasible," and to provide local public agencies acting as GSAs with the authority and technical and financial assistance necessary to achieve basin sustainability (Wat. Code § 10720.1).

The Yucaipa Groundwater Sustainability Agency (Yucaipa GSA) was formed in 2017 to act as the GSA for the Yucaipa Subbasin. The Yucaipa Subbasin lies within the Upper Santa Ana River Basin Hydrologic Region (DWR basin number 8-002.07) and underlies an area of approximately 25,300 acres under portions of the cities of Calimesa, Redlands, and Yucaipa, as well as unincorporated San Bernardino and Riverside Counties. The Yucaipa GSA jurisdictional boundary consists of the entire Yucaipa Subbasin within San Bernardino County and Riverside County (Dudek, 2022).

In January 2022, Yucaipa GSA adopted the Yucaipa Subbasin Groundwater Sustainability Plan (Yucaipa Subbasin GSP) pursuant to the SGMA and the GSP Regulations. DWR approved the GSP on January 18, 2024.

This Ordinance is adopted to provide minimum standards for the construction, reconstruction, abandonment, and destruction of all wells in the Yucaipa Subbasin in order to: (a) protect and sustainably manage the groundwater resources in the Yucaipa Subbasin, (b) ensure that the construction and use of groundwater supply wells and monitoring wells are consistent with the groundwater sustainable management criteria and monitoring protocols established in the Yucaipa Subbasin GSP, and (c) provide safe water for the beneficial use by all groundwater users in the Yucaipa Subbasin.

## 2 Authority

Pursuant to the SGMA, including without limitation Water Code section 10725.2, the Yucaipa GSA shall enforce the provisions of this Ordinance within its jurisdiction. This Ordinance shall be in addition to, and not a limitation on, the authority and well permitting requirements by the Riverside County Department of Environmental Health (RCDEH) and the San Bernardino County Department of Environmental Health Services (SBCDEHS) within their respective jurisdictions.

## 3 Implementation

The Yucaipa Subbasin is primarily in San Bernardino County, with portions of the North Bench, Calimesa and San Timoteo management areas in Riverside County. Both counties adopted ordinances that provided minimum standards for the construction, reconstruction, abandonment and destruction of wells to protect groundwater resources and to provide safe water for persons within their respective jurisdictions. The following summarizes the well ordinances adopted by San Bernardino County and Riverside County.

### 3.1 San Bernardino County

The Board of Supervisors for San Bernardino County adopted Ordinance 3105 in 1986, codified as Article 3 (commencing with Section 33.0630) of Chapter 6 of Division 3 of Title 3 of the San Bernardino County Code of Ordinances (SB Ordinance). The SB Ordinance establishes requirements for well permit applications, the conditions for approving or denying well permit applications, the licensing and registration of water well drillers and contractors, the selection of well sites, water well surface construction features, and inspections by County staff during certain aspects of well construction and destruction. The Department of Environmental Health Services of the County of San Bernardino (SBCDEHS) is responsible for enforcing the SB Ordinance. The SB Ordinance references the recommended well standards in DWR Bulletin 74-81 and adopts these standards as the well standards for San Bernardino County (DWR, 1981).

The Yucaipa GSA hereby adopts the well standards in the SB Ordinance, as may be amended, as the minimum standards for the construction, reconstruction, abandonment and destruction of wells in those portions of the Yucaipa Subbasin that are within San Bernardino County. The Yucaipa GSA also requires additional well construction details to assess the influence of the new well or altered existing well on conditions in the Yucaipa Subbasin, as set forth in Section 4 of this Ordinance.

## 3.2 Riverside County

In 1989, the Board of Supervisors of the County of Riverside adopted Riverside County Ordinance 682, amended in its entirety in 2021 by Ordinance 682.6, entitled “An Ordinance of the County of Riverside Regulating the Construction, Reconstruction, Abandonment and Destruction of Wells and Incorporating by Reference Ordinance No. 725” (Riverside Ordinance). The Riverside Ordinance establishes requirements for well permit applications, the conditions for approving or denying well permit applications, the licensing and registration of water well drillers and contractors, the selection of well sites, construction standards, inspections by County staff during certain aspects of well construction and destruction, water quality standards, and minimum well production. The Riverside County Department of Environmental Health (RCDEH) is responsible for enforcing the provisions of the Riverside Ordinance. RCDEH also references the recommended well standards in DWR Bulletin 74-90, in addition to Bulletin 74-81, as the well standards for Riverside County (DWR, 1991).

The Yucaipa GSA hereby adopts the well standards in the Riverside Ordinance, as may be amended, as the minimum standards for the construction, reconstruction, abandonment and destruction of wells in those portions of the Yucaipa Subbasin that are within Riverside County. The Yucaipa GSA also requires additional well construction details to assess the influence of the new well or altered existing well on conditions in the Yucaipa Subbasin, as set forth in Section 4 of this Ordinance.

## 3.3 Drought Executive Order

In March 2022, Governor Newsom adopted Executive Order N-7-22, also known as the Drought Executive Order, specifying certain requirements to mitigate the effects of the drought on California’s water supply systems. Paragraph 9 of the Drought Executive Order requires local well permitting agencies to forward a well permit application for new wells or for alterations to existing wells in medium to high priority basins to the managing GSA to review and provide written verification that the proposed well will be consistent with the applicable GSP. Paragraph 9 of the Drought Executive Order also requires that the permitting agency assess whether the extraction of groundwater from the proposed well will interfere with the production and functioning of existing nearby wells and will cause land subsidence that will adversely impact or damage nearby infrastructure.

Executive Order N-3-23, adopted on February 13, 2023, withdraws Paragraph 9 of the Drought Executive Order and replaces it with similar text, with the following exception: “This Paragraph shall not apply to permits for wells (i) that will provide less than two acre-feet per year of groundwater for individual domestic users, (ii) that will exclusively provide groundwater to public water supply systems as defined in section 116275 of the Health and Safety Code, or (iii) that are replacing existing, currently permitted wells with new wells that will produce an equivalent quantity of water as the well being replaced when the existing well is being replaced because it has been acquired by eminent domain or acquired while under threat of condemnation.”

As required by Executive Order N-3-23, RCDEH and SBCDEH shall forward a complete well permit application to the Yucaipa GSA for the purpose of evaluating whether the proposed new

well or alteration of an existing well will be consistent with the groundwater resource sustainable management criteria established in the Yucaipa Subbasin GSP (Dudek, 2022).

The following procedures will be implemented by the Yucaipa GSA.

1. The Yucaipa GSA will review the well permit application and provide RCDEH or SBCDEH a completed Yucaipa GSA Executive Order N-3-23 Compliance Form documenting whether the proposed use of the new well or altered existing well will be consistent with the Yucaipa Subbasin GSP (Appendices A and B). The Yucaipa GSA will provide a completed Compliance Form to the RCDEH or SBCDEH within 30 days of receiving the well permit application from the respective agency.
2. The Compliance Form will reference this Ordinance and indicate that the additional well construction requirements listed herein (see Section 4) are included with the RCDEH or SBCDEH well permit applications.
3. No person or entity shall engage in any activity subject to the jurisdiction of this Ordinance without first obtaining a well permit from RCDEH or SBCDEH commensurate with their respective well permit application requirements and fees.
4. Any person who shall commence any work for which a permit is required by RCDEH or SBCDEH without having obtained a permit for emergency work when it was established in writing to the satisfaction of RCDEH or SBCDEH that such work was urgently necessary and that it was not practical to obtain a permit before commencement of the work shall provide well construction, development and testing details to the Yucaipa GSA to assess the use of the well in relation to sustainable groundwater management criteria established in the Yucaipa Subbasin GSP. Nothing in this provision shall relieve the applicant from adhering to the permit requirements stipulated by RCDEH or SBCDEH under all circumstances, including emergency work.
5. Copies of all well permits issued by RCDEH or SBCDEH shall be provided to the Yucaipa GSA within thirty (30) days of issuance by RCDEH or SBCDEH.

## 4 Information Required by the Yucaipa GSA

To assess the potential effect of the proposed well or alteration to an existing well on groundwater sustainability in the Yucaipa Subbasin, the Yucaipa GSA requests additional information be included with well permit applications submitted to SBCDEHS and RCDEH and post-construction details of the well.

### 4.1 Additional Information in Well Permit Applications

The following information shall be provided as an addendum to the "Application for Well Permit" submitted to SBCDEHS or the "Water Well Application" submitted to RCDEH.

1. The proposed use of the well (e.g., agriculture, municipal, community, private domestic, monitoring, etc.) and the anticipated long-term production rate in gallons per minute (GPM) and acre-feet per year (AFY).
2. The proposed well depth, including casing size and proposed interval(s) of perforations.
3. The make and model of a totalizing flow meter and location of its installation in the discharge line per specifications by the manufacturer.
4. The proposed specifications and depth of a dedicated sounding tube to facilitate the measurement of a water level in the well casing.
5. The type and location of a sampling port for purposes of collecting representative water quality samples from the discharge stream of the well.

## 4.2 Post-Construction Details of the New Well or Alteration to an Existing Well

The following information shall be provided to the Yucaipa GSA after the new well is constructed and, if applicable, equipped with a pump and water conveyance system, or if an existing well is altered.

1. Details on the drilling method(s) used to drill the borehole for the conductor casing (if applicable) and well casing.
2. The results of downhole geophysical logging of the borehole, if applicable.
3. Details on the construction of the well, including
  - a. Depth of borehole drilled.
  - b. If applicable, the type of material, wall thickness, and depth of conductor casing installed, and annular sealing material used per requirements in Bulletins 74-81 and 74-90.
  - c. Type of material, wall thickness and depth of well casing, including details on casing perforations (slot size and interval).
  - d. Depth interval and gradation of the filter pack.
  - e. If applicable, details of the placement of a transition zone above the filter pack.
  - f. The type of material and method of placement of the annular seal.
  - g. A schematic of the surface completion for the well, identifying, if applicable, the sounding port to measure depths-to-water, sampling port for collecting water quality samples, and access port for camera tube.

4. Survey results by a licensed surveyor indicating the locations, referenced to the North American Datum of 1983 (NAD83), and elevations, referenced to the North American Vertical Datum of 1988 (NAVD88), for the following points:
  - a. Land surface
  - b. Reference point from which depths-to-water will be measured in the well (e.g., top of sounding tube). The reference point shall be clearly and permanently marked.
  - c. Top of well casing (this point shall be clearly and permanently marked).
6. For alterations to existing wells, please provide the details for the alterations (e.g., zone of perforated casing that was sealed off, backfill casing to a certain depth, etc.) made to the existing well and the resulting improvements (e.g, increased production and/or improvement in water quality).

## 5 References

Department of Water Resources (DWR). 1981. Water Well Standards: State of California. State of California The Resources Agency. Bulletin 74-81. December.

Department of Water Resources (DWR). 1991. California Well Standards. California Department of Water Resources. Bulletin 74-90 (Supplement to Bulletin 74-81). June.

Dudek. 2022. *Final Groundwater Sustainability Plan for the Yucaipa Groundwater Subbasin*. Prepared by Dudek, 605 Third Street, Encinitas, California. Prepared for Yucaipa Groundwater Sustainability Agency, c/o San Bernardino Valley Municipal Water District. January 27, 2022.



**Appendix A**

Executive Order N-3-23 Compliance Form for Riverside  
County Department of Environmental Health

DRAFT



**Appendix B**

Executive Order N-3-23 Compliance Form for San Bernardino County Department of Environmental Health Services

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January 22, 2025

Yucaipa Groundwater Sustainability Agency  
c/o San Bernardino Valley Municipal Water District  
380 East Vanderbilt Way  
San Bernardino, California 92408

Subject: Proposal to Evaluate the Earning and Expiration of Pumping Credits in the Yucaipa Subbasin

Dear Yucaipa GSA Member Agencies:

The Yucaipa Groundwater Sustainability Plan (GSP) included three management actions to sustainably manage groundwater usage in the Yucaipa Subbasin. One of the management actions established sustainable yield pumping allocations for groundwater users in the Subbasin. The intent of this management action was to regulate the annual usage of groundwater at or below the sustainable yield defined for the management areas in the Subbasin. As an incentive to use groundwater at less than the sustainable yield, pumping credits may be earned when a user pumps less than their sustainable yield pumping allocation. Pumping credits may be used in subsequent years to offset pumping that may exceed the sustainable yield pumping allocation. However, pumping credits would expire after 5 years of being earned if not used. At the time that the GSP was submitted to DWR in January 2022, the GSP stated that the GSA was “continuing discussions on implementing a policy that will allow the transferability of pumping credits between groundwater users within a given management area or within the Subbasin.”

On November 20, 2024, the Yucaipa Groundwater Sustainability Agency (GSA) hosted a Sustainable Pumping Allocation Workshop. At the workshop, Dudek presented a summary of how the sustainable yield pumping allocations were derived for each user, and the status of pumping credits earned by each user since the GSP was implemented in the 2022 water year. A series of questions were presented to direct further discussion on the transferability of pumping credits, when they expire, and what groundwater users are eligible to earn pumping credits.

At the conclusion of the workshop, the GSA requested Dudek to prepare a scope of work and fee for evaluating different scenarios with varying expiration times for pumping credits and how each scenario may influence the management of groundwater in the Subbasin. Additionally, the GSA requested Dudek to investigate four different ways in which pumping credits may be earned via SWP water spreading, in lieu recharge, groundwater production, and treating SWP water at the YVWRF. Per the GSP, pumping credits are earned when annual production is less than the sustainable yield pumping allocation for a groundwater user. This analysis will evaluate other possible avenues for earning pumping credits, the incentives for doing so, and how they may affect the accounting of pumping credits, including for

groundwater users that are capable of earning pumping credits in addition to regulating groundwater production to less than their respective sustainable yield pumping allocation.

The following scope of work and fee details the tasks Dudek will undertake to evaluate earning and expiration of pumping credits in the Yucaipa Subbasin.

## 1 Scope of Work

### Task 1.1 Evaluate Varying Expiration and Earning Scenarios for Pumping Credits

Dudek will develop up to 4 different scenarios for when pumping credits will expire if not used by the groundwater user that earned them. The different expirations will be 3 years, 5 years, 10 years, and 20 years. This task will evaluate the accounting of pumping credits for each groundwater user under these different scenarios, and how the accumulation of pumping credits will compare to the sustainable yield and sustainable yield pumping allocations. The different expirations will also be compared to drought cycles, projected water demands and reliability projections for SWP water to help evaluate the best approach to manage groundwater usage in the Subbasin.

*Fee for Task 1.1* ..... \$9,550

### Task 1.2 Evaluate Different Methods for Earning Pumping Credits

Dudek will review historical information and data on obtaining and using sources of water other than groundwater. These sources or use of water may derive from importing and treating SWP water at the YVWRF, importing SWP and spreading it at the Oak Glen Creek and Wilson Creek basins, and in lieu recharge. Currently, pumping credits are earned by a groundwater user when their annual groundwater production is less than their respective sustainable yield pumping allocation. This evaluation will look at the relationship between a reduction in groundwater production and the importation of SWP water for either distribution or spreading, or the implementation of in lieu recharge via recycled water usage or some other mechanism. This analysis will take into consideration the costs associated with treating SWP water for distribution, the conveyance of SWP water to spreading basins, and the in lieu recharge programs that contribute to a reduction in groundwater production. The analysis will evaluate whether there is benefit to develop a tiered structure for earning pumping credits based on the cost per acre-foot of water imported via SWP for distribution and/or spreading and in lieu recharge.

*Fee for Task 1.2* ..... \$10,550

## Task 2.1 Prepare Draft Technical Report

Dudek will prepare a draft and final technical memorandum detailing the data obtained and analyzed in this study, the analytical methodologies, and conclude with recommendations for the GSA to consider in how pumping credits are earned and expire while providing the most equitable and beneficial application to help offset pumping exceedances. The draft report will be provided to the GSA to review and provide comments. Dudek anticipates providing the GSA with two weeks to review and provide comments.

*Fee for Task 2.1* ..... \$8,020

## Task 2.2 Address GSA Comments and Finalize Report

Dudek will address all comments from the GSA and finalize the technical report. Digital copies of the technical report in PDF format will be provided to all GSA members.

*Fee for Task 2.2* ..... \$1,480

## Schedule

The following schedule outlines the anticipated meetings and deliverables:

- **March 28, 2025** – Draft pumping credits evaluation report
- **March 31 – April 11, 2025** – Review period for GSA Board members
- **April 14 – 22, 2025** – Revise report per comments received from GSA
- **April 23, 2025** – Present final report at GSA meeting

## Fee Summary

The fee presented in this proposal will be charged on a time and materials basis in accordance with Dudek’s 2025 Standard Schedule of Charges. The time and materials fee provided in this proposal represents an estimate of the anticipated level of effort required to complete the tasks described in the proposal. Should the actual effort required to complete the tasks be less than anticipated, the amount billed will be less than the total fee. Conversely, should the actual effort to complete the proposed tasks be greater than anticipated, additional fee authorizations will be requested. No work in excess of the proposed fee or outside of the proposed scope of work will be performed without written authorization from the Yucaipa GSA.

**TOTAL FEE** ..... **\$29,600**

Per Section VII, Funding and Budgeting, in the Memorandum of Agreement to Form a Groundwater Sustainability Agency for the Yucaipa Subbasin, the water purveyors shall collectively bear 75% and the

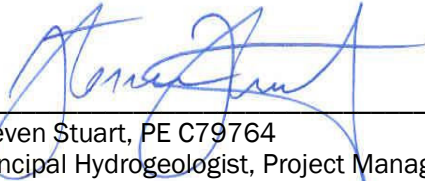
municipalities and regionals shall bear 25% of the cost of administration of the Yucaipa GSA. The following is a breakdown of the shared responsibility for the proposed fee:

- For each Water Purveyor (South Mesa, South Mountain, WHWC, YVWD) = \$5,550.00
- For each Municipality and Regional (City of Yucaipa, SBVMWD, SGPWA) = \$1,850.00

Dudek appreciates the opportunity to evaluate various scenarios of expirations and earning pumping credits in the Yucaipa Subbasin. We look forward to continuing our working relationship with the Yucaipa GSA.

If you have any questions regarding this proposal, please call me at 760-415-9079 or email me at [sstuart@dudek.com](mailto:sstuart@dudek.com).

Sincerely,



---

Steven Stuart, PE C79764  
Principal Hydrogeologist, Project Manager

Att.: *Table 1. Fee to Evaluate the Earning and Expiration of Pumping Credits*  
*Dudek 2025 Standard Schedule of Charges*  
cc: *Adekunle Ojo, San Bernardino Valley Municipal Water District*

---

# Attachment A

## Table 1. Fee for Evaluating the Earning and Expiration of Pumping Credits in the Yucaipa Subbasin

### Dudek 2025 Standard Schedule of Charges

**TABLE I. FEE TO EVALUATE THE EARNING AND EXPIRATION OF PUMPING CREDITS  
DUDEK FEE SCHEDULE**

		<i>Team Member:</i>	Steven Stuart, PE	Sharllyn Pimentel	<b>TOTAL HOURS</b>	<b>LABOR COST</b>	<b>TOTAL</b>
		<i>Project Team Role:</i>	Project Manager	Hydrogeologist			
		<i>Labor Class:</i>	Principal Hydrogeologist II	Hydrogeoloist IV			
		<i>Billable Rate :</i>	\$310	\$215			
<b>Task 1 - Evaluate Varying Expiration and Earning Scenarios</b>							
1.1	Evaluate Varying Expiration Scenarios	10	30	40	\$ 9,550	\$ 9,550	
1.2	Evaluate Different Mechanisms to Earn Pumping Credits	16	26	42	\$ 10,550	\$ 10,550	
	<b>Subtotal Task 1</b>	<b>26</b>	<b>56</b>	<b>82</b>	<b>\$ 20,100</b>	<b>\$ 20,100</b>	
<b>Task 2 - Technical Report</b>							
2.1	Draft Report	12	20	32	\$ 8,020	\$ 8,020	
2.2	Address GSA Comments and Finalize Report	2	4	6	\$ 1,480	\$ 1,480	
	<b>Subtotal Task 2</b>	<b>14</b>	<b>24</b>	<b>38</b>	<b>\$ 9,500</b>	<b>\$ 9,500</b>	
<b>Total Hours and Fee</b>		<b>40</b>	<b>80</b>	<b>120</b>	<b>\$29,600.00</b>	<b>\$29,600.00</b>	

## DUDEK 2025 Standard Schedule of Charges

### Engineering Services

Project Director .....	\$355.00/hr
Principal Engineer III .....	\$330.00/hr
Principal Engineer II .....	\$315.00/hr
Principal Engineer I .....	\$300.00/hr
Program Manager .....	\$290.00/hr
Senior Project Manager .....	\$290.00/hr
Project Manager .....	\$275.00/hr
Senior Engineer III .....	\$270.00/hr
Senior Engineer II .....	\$260.00/hr
Senior Engineer I .....	\$255.00/hr
Project Engineer IV/Technician IV .....	\$245.00/hr
Project Engineer III/Technician III .....	\$235.00/hr
Project Engineer II/Technician II .....	\$220.00/hr
Project Engineer I/Technician I .....	\$200.00/hr
3D Production Manager .....	\$235.00/hr
Senior Designer II .....	\$220.00/hr
Senior Designer I .....	\$215.00/hr
Designer .....	\$210.00/hr
Assistant Designer .....	\$205.00/hr
CADD Operator III .....	\$200.00/hr
CADD Operator II .....	\$190.00/hr
CADD Operator I .....	\$175.00/hr
CADD Drafter .....	\$160.00/hr
CADD Technician .....	\$145.00/hr
Project Coordinator .....	\$170.00/hr
Engineering Assistant .....	\$145.00/hr

### Environmental Services

Senior Project Director .....	\$350.00/hr
Project Director .....	\$300.00/hr
Senior Specialist V .....	\$275.00/hr
Senior Specialist IV .....	\$265.00/hr
Senior Specialist III .....	\$250.00/hr
Senior Specialist II .....	\$235.00/hr
Senior Specialist I .....	\$220.00/hr
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Specialist IV .....	\$195.00/hr
Specialist III .....	\$185.00/hr
Specialist II .....	\$175.00/hr
Specialist I .....	\$165.00/hr
Analyst V .....	\$155.00/hr
Analyst IV .....	\$145.00/hr
Analyst III .....	\$135.00/hr
Analyst II .....	\$125.00/hr
Analyst I .....	\$105.00/hr
Technician IV .....	\$100.00/hr
Technician III .....	\$90.00/hr
Technician II .....	\$80.00/hr
Technician I .....	\$70.00/hr
Project Coordinator II .....	\$170.00/hr
Project Coordinator I .....	\$135.00/hr

### Mapping and Surveying Services

UAS Pilot .....	\$165.00/hr
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Survey Manager .....	\$220.00/hr
Survey Crew Chief .....	\$185.00/hr
Survey Rod Person .....	\$145.00/hr
Survey Mapping Technician .....	\$135.00/hr

### Construction Management Services

Principal Manager .....	\$215.00/hr
Senior Construction Manager .....	\$195.00/hr
Senior Project Manager .....	\$190.00/hr
Construction Manager .....	\$185.00/hr
Project Manager/Construction Management .....	\$175.00/hr
Resident Engineer .....	\$175.00/hr
Construction Engineer .....	\$175.00/hr
On-site Owner's Representative .....	\$160.00/hr
Prevailing Wage Inspector .....	\$160.00/hr
Construction Inspector .....	\$150.00/hr
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Project Director .....	\$345.00/hr
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Senior Hydrogeologist II/Engineer II .....	\$245.00/hr
Senior Hydrogeologist I/Engineer I .....	\$235.00/hr
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Grade I Operator .....	\$90.00/hr
Operator in Training .....	\$80.00/hr
Collection Maintenance Worker .....	\$85.00/hr

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Technology Specialist II .....	\$245.00/hr
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Emergency and Holidays – Minimum charge of two hours will be billed at 1.75 times the normal rate.

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Travel Expenses – Mileage at current IRS allowable rates. Per diem where overnight stay is involved is charged at cost

Invoices, Late Charges – All fees will be billed to Client monthly and shall be due and payable upon receipt. Invoices are delinquent if not paid within 30 days from the date of the invoice. Client agrees to pay interest at a 10% annual rate for amounts unpaid greater than 30 days after the date of the invoice.

Annual Increases – Unless identified otherwise, these standard rates will increase in line with the CPI-U for the nearest urban area per the Department of Labor Statistics to where the work is being completed) or by 3% annually, whichever is higher.

Prevailing Wage – The rates listed above assume prevailing wage rates do not apply. If this assumption is incorrect Dudek reserves the right to adjust its rates accordingly.

January 22, 2025

Yucaipa Groundwater Sustainability Agency  
c/o San Bernardino Valley Municipal Water District  
380 East Vanderbilt Way  
San Bernardino, California 92408

Subject: Proposal to Provide Support Services to the Yucaipa Groundwater Sustainability Agency - April 2025 to April 2026

Dear Yucaipa GSA Member Agencies:

Dudek is pleased to present this scope of work and fee to the Yucaipa Groundwater Sustainability Agency (Yucaipa GSA) to provide services from April 1, 2025 to April 30, 2026 in support of the implementation of the Yucaipa Groundwater Sustainability Plan that was adopted by the Yucaipa GSA on January 26, 2022 and subsequently approved by the California Department of Water Resources (DWR) on January 18, 2024. In summary, Dudek's services will include providing quality assurance of data collected in the field, updating and maintaining the Data Management System, preparing for and participating in GSA meetings, assisting the GSA in developing and conducting an outreach program to engage with private well users in the Plan Area, and address the nine (9) recommended corrective actions provided by DWR in their January 18, 2024 letter to the Yucaipa GSA approving the GSP.

The following scope of work and fee details the tasks Dudek will undertake to support the Yucaipa GSA in the implementation of the Yucaipa GSP.

## 1 Scope of Work

### Task 1 Project Management and Quality Assurance of Data

Mr. Steven Stuart, PE, will serve as the project manager for these services provided by Dudek. Mr. Stuart will act as the point of contact between Dudek and the GSA, and will be responsible for coordinating and overseeing the successful completion of all tasks presented in this scope of work. The project management responsibilities will also include preparing and submitting monthly invoices to SBVMWD, tracking the project budget, and directing Dudek staff on the various tasks.

Dudek will collect, compile and review for quality assurance all data collected by the GSA member agencies and participating stakeholders in the Plan Area. The data includes, but is not limited to, static groundwater elevation measurements, monthly pumping data from active wells, monthly accounting of State Water Project (SWP) water imported into the Plan Area, groundwater quality sampling and reporting, precipitation data obtained from climatic stations maintained by the San Bernardino County Flood Control District (SBCFCD) and National Oceanic and Atmospheric Agency, and stream flow data collected at SBCFCD stations. The data collected will be evaluated



against the monitoring and reporting protocols included in the GSP. Data that meets these protocols will be uploaded to the DMS and made available for the GSA member agencies to view and access.

*Fee for Task 1.....\$11,980*

## Task 2 Update and Maintain Data Management System

Data approved under Task 1, Quality Assurance, will be uploaded to the DMS. The data will be formatted, compiled and organized per the current layout design in the GIS-based system. Dudek will also provide services in maintaining and managing the DMS and will provide support to the GSA member agencies in accessing the DMS and navigating through the database. The fee for updating and maintaining the DMS includes annual subscription costs by ESRI to provide the following online services: ArcGIS Online, ArcGIS Online Viewer, ArcGIS Online Mobile Worker, and ArcGIS Online Contributor. The annual subscriptions will cover the period from January 16, 2025 to January 15, 2026. The fee includes 4.5 hours per month of Dudek labor for routine maintenance, updating the DMS database, and addressing inquiries from the GSA. The ESRI renewal quotation (#26245644) for providing these online services from January 16, 2025 to January 15, 2026 is included with this proposal. The fee for renewing the ESRI annual subscriptions is \$4,775. Note there is no markup on the ESRI invoice.

*Fee for Task 2..... \$9,915*

## Task 3 Participate in GSA Meetings

Dudek will prepare for and participate in five (5) quarterly GSA meetings scheduled for April 23, July 23, October 22, 2025, January 28 and April 22, 2026. If Dudek's participation in any additional meetings is requested by the Yucaipa GSA, then Dudek will submit a separate proposal to the GSA that includes labor hours to prepare for and participate in the requested meeting(s).

*Fee for Task 3.....\$21,700*

## Task 4 Outreach to Private Well Users

Dudek will assist the GSA in continuing its outreach efforts to engage with private well users in the Plan Area. This includes Dudek staff coordinating with the GSA in preparing for and participating in up to two special meetings, or workshops, to engage with private well owners. The workshops will provide an update on GSP implementation, conditions in the Yucaipa Subbasin, and provide an opportunity for the private well owners to engage with the GSA .

*Fee for Task 4..... \$7,440*

## Schedule

The following schedule outlines the anticipated meetings and deliverables:

- **April 23, 2025** – GSA Board Meeting

- **July 23, 2025** – GSA Board Meeting
- **October 22, 2025** – GSA Board Meeting
- **January 22, 2026** – GSA Board Meeting
- **April 22, 2026** – GSA Board Meeting

## Fee Summary

The fee presented in this proposal will be charged on a time and materials basis in accordance with Dudek’s 2025 Standard Schedule of Charges. The time and materials fee provided in this proposal represents an estimate of the anticipated level of effort required to complete the tasks described in the proposal. Should the actual effort required to complete the tasks be less than anticipated, the amount billed will be less than the total fee. Conversely, should the actual effort to complete the proposed tasks be greater than anticipated, additional fee authorizations will be requested. No work in excess of the proposed fee or outside of the proposed scope of work will be performed without written authorization from the Yucaipa GSA.

**TOTAL FEE.....\$51,035**

Per Section VII, Funding and Budgeting, in the Memorandum of Agreement to Form a Groundwater Sustainability Agency for the Yucaipa Subbasin, the water purveyors shall collectively bear 75% and the municipalities and regionals shall bear 25% of the cost of administration of the Yucaipa GSA. The following is a breakdown of the shared responsibility for the proposed fee:

- For each Water Purveyor (South Mesa, South Mountain, WHWC, YVWD) = \$9,569.06
- For each Municipality and Regional (City of Yucaipa, SBVMWD, SGPWA) = \$4,252.92

Dudek appreciates the opportunity to present this proposal to provide support services following the implementation of the GSP. We look forward to continuing our working relationship with the Yucaipa GSA.

If you have any questions regarding this proposal, please call me at 760-415-9079 or email me at [sstuart@dudek.com](mailto:sstuart@dudek.com).

Sincerely,



---

Steven Stuart, PE C79764  
Principal Hydrogeologist, Project Manager

Att.: *Table 1. Fee for Dudek Support Services*  
*Dudek 2025 Standard Schedule of Charges*  
cc: *Adekunle Ojo, San Bernardino Valley Municipal Water District*

---

# Attachment A

## Table 1. Fee for the 2025-2026 Support Services for the Yucaipa GSA Dudek 2025 Standard Schedule of Charges

TABLE I. FEE FOR SUPPORT SERVICES FOR YUCAIPA GSA  
 APRIL 2025 - APRIL 2026  
 DUDEK FEE SCHEDULE

		<i>Team Member:</i>	Steven Stuart, PE	Matt Palavido	Sharlyn Pimentel				
		<i>Project Team Role:</i>	Project Manager	DMS Manager	Hydrogeologist				
		<i>Labor Class:</i>	Principal Hydrogeologist II	Sr. Specialist I	Hydrogeologist IV				
		<i>Billable Rate :</i>	\$310	\$195	\$215	TOTAL HOURS	LABOR COST	ESRI Annual Subscription Fee	TOTAL
<b>Task 1 - Quality Assurance and Project Management</b>									
1-1	Quality Assurance of Data		6		24	30	\$ 7,020		\$ 7,020
1-2	Project Management		16			16	\$ 4,960		\$ 4,960
	<b>Subtotal Task 1</b>		<b>22</b>		<b>24</b>	<b>46</b>	<b>\$ 11,980</b>		<b>\$ 11,980</b>
<b>Task 2 - Maintain Data Management System</b>									
2-1	Update and Maintain DMS		4	20		24	\$ 5,140	\$ -	\$ 5,140
2-2	ESRI ArcGIS Online Annual Subscription Fee						\$ -	\$ 4,775	\$ 4,775
	<b>Subtotal Task 2</b>		<b>4</b>	<b>20</b>		<b>24</b>	<b>\$ 5,140</b>	<b>\$ 4,775</b>	<b>\$ 9,915</b>
<b>Task 3 - Participate in GSA Meetings</b>									
3-1	Prepare for and Participate in Quarterly Meetings		70			70	\$ 21,700	\$ -	\$ 21,700
	<b>Subtotal Task 3</b>		<b>70</b>			<b>70</b>	<b>\$ 21,700</b>	<b>\$ -</b>	<b>\$ 21,700</b>
<b>Task 4 - Outreach to Private Well Users</b>									
4-1	Assist with Outreach to Private Well Users		24			24	\$ 7,440	\$ -	\$ 7,440
	<b>Subtotal Task 4</b>		<b>24</b>			<b>24</b>	<b>\$ 7,440</b>	<b>\$ -</b>	<b>\$ 7,440</b>
<b>Total Hours and Fee</b>			<b>120</b>	<b>20</b>	<b>24</b>	<b>164</b>	<b>\$46,260.00</b>	<b>\$ 4,775.00</b>	<b>\$51,035.00</b>

## DUDEK 2025 Standard Schedule of Charges

### Engineering Services

Project Director .....	\$355.00/hr
Principal Engineer III .....	\$330.00/hr
Principal Engineer II .....	\$315.00/hr
Principal Engineer I .....	\$300.00/hr
Program Manager .....	\$290.00/hr
Senior Project Manager .....	\$290.00/hr
Project Manager .....	\$275.00/hr
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Analyst IV .....	\$145.00/hr
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Analyst II .....	\$125.00/hr
Analyst I .....	\$105.00/hr
Technician IV .....	\$100.00/hr
Technician III .....	\$90.00/hr
Technician II .....	\$80.00/hr
Technician I .....	\$70.00/hr
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