

Application Form for 2024 Local Cooperative Solution for Overlying or Adjudicated Groundwater Rights in Scott River and Shasta River Watersheds

Please complete this form if you plan to implement a groundwater local cooperative solution (LCS) for the 2024 irrigation season under the Scott River and Shasta River watersheds <u>emergency regulation</u>. A separate application should be submitted for each type of groundwater LCS proposal. **The form and attachments are due by April 15, 2024.**

How to Submit: To submit your application and associated required materials see Section 2 you can:

- Use the online form
- Email: DWR-ScottShastaDrought@waterboards.ca.gov
- Mail

State Water Resources Control Board Division of Water Rights - Instream Flows Unit 1 1001 I Street - 14th Floor Sacramento, CA 95814

Section 1: Applicant Information

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		Dane Sousa
	Name of Farm, Ranch, or Business	Sousa Farm

By typing or signing your name below and submitting this form to the State Water Resources Control Board (State Water Board) you hereby certify that the submitted information is true and correct to the best of your knowledge.

Name:	Dane Sousa	Date:	04-15-2024
L			

Section 2: Application Checklist

Below is a list of items to include with your application form:

- Application Form (paper or email submittal accepted).
- If working with a Coordinating Entity (Section 4 of application), submit a signed Binding Agreement (paper or email submittal accepted).
- Supporting Information (electronic submittal only). Submit the applicable information based on selected groundwater LCS.
 - Best Management Practices Groundwater LCS (see Section 7 of application)
 - Description of how you will implement of all required components.
 - Map(s) with each well and field labeled.
 - o Graduated Groundwater Cessation Schedule LCS (see Section 8 of application)
 - Description of how you will reduce irrigation compared to standard practices on the property (e.g., practice in a similar unregulated year).
 - Map(s) designating the area where diversions will cease by the required dates and well location(s).
 - Percent Reduction Groundwater LCS (see Section 9 of application)
 - Description of verifiable water reduction actions that will be implemented.
 - Spreadsheet with monthly pumping volumes for baseline year and current year. Use one row per irrigation method per field.
 - Map(s) with each well and field labeled.
- A description of metering (Section 6 of application) in place for groundwater well extractions and an agreement to record such extractions daily and report monthly to your Coordinating Entity and/or State Water Board.
- Groundwater Well Information (see Section 5 of application) (paper or email submittal accepted).
- List of Fields, Assessor's Parcel Numbers (APNs), and Water Rights (see Section 10 of application) (paper or email submittal).

Section 3: Requirements for All Groundwater LCS Proposals

- **Deadline:** Proposals must be submitted to the State Water Board by April 15, 2024.
- **Implementation:** Proposals must be implemented during the entirety of the irrigation season (including prior to approval), unless the applicant withdraws the application.
- Metering: Proposals must include a description of metering that will be used to
 measure groundwater well extractions and information on how extractions will be
 recorded daily and reported monthly to the Deputy Director or Coordinating Entity, as
 applicable. Please note the Coordinating Entity is required to provide this data to the
 State Water Board.
 - Funding for Meters: The State Water Board has funding and technical support available for some amount of metering and those interested in such assistance should promptly contact State Water Board staff using the "Contact Information" at the end of this application.
 - <u>Time Schedule for Metering</u>: If a meter is not currently installed and may not be installed prior to the start of the irrigation season, the applicant must provide information that substantiates the applicant's efforts and actions taken to get a meter installed, and a timeline for meter installation.
 - <u>Waivers</u>: Proposals may include information requesting waiver of the metering provisions in the following instances:
 - Groundwater wells that irrigate less than 30 acres. Information supporting the request to waive metering provisions must be provided, including distance of the groundwater well to surface water. The State Water Board may require other information in lieu of monitoring.
 - Metering is not feasible. Substantiation for the infeasibility of installing a meter must be provided.

Section 4: Coordinating Entity

Select only one 1) box below. Please note that a Coordinating Entity is not required. If a Coordinating Entity is not selected, parties will work directly with the State Water Board to provide metering data and ensure performance of the groundwater local cooperative solution. For more information on Coordinating Entity provisions, refer to Section 875(f)(1)(G) in the emergency regulation.

California Department of Fish Wildlife Contact: Crystal Robinson (530 340-0767 crystal.robinson@wildlife.ca.gov	Shasta Valley Resource Conservation District Contact: Rod Dowse 530 598-1253 rdowse@svrcd.org
Siskiyou Resource Conservation District Contact: Evan Senf 530 643-1585 evan@siskiyourcd.com	Scott River Water Trust Contact: Chris Voigt (916) 396-0131 chrisb.voigt@gmail.com
	I select not to work with a coordinating entity.

Section 5: Groundwater Well Information

Complete the table below or upload an attachment for groundwater wells that are part of the proposed groundwater LCS.

Well Coordinates ¹

For assistance in finding well coordinates, you can use Google Maps (www.google.com/maps).

Upload Well Information

Section 6: Metering Information

Please describe the metering for all groundwater wells covered by this groundwater LCS. Fill in the box below, upload an attachment, or email a document or spreadsheet with this information.

a.	Describe how you will record daily extractions and report monthly pump Include a description of all water uses associated with each groundwater of this groundwater LCS. For example, "the ranch manager will log meter readings at Well 1 and picture of the meters each week. They will note what the water is being will irrigate 50 acres of grain on fields A and B, 100 acres of pasture on	er well that is part Well 2 and take a used for - Well 1
	Z, and Well 2 will irrigate 75 acres of alfalfa on field Y. The manager will and photos to the Water Board around the first of each month."	I send the logs
tim ini file inf irri	For groundwater wells that are NOT currently metered, pleasing schedule and plan to install meters and efforts to obtain a meter tiation of groundwater diversions covered by this groundwater LCS for a waiver to the metering requirement please use the box below are formation on why metering of your well(s) should be waived. Be sure to igated acres, distance of the well(s) from surface water, description of vertically if applicable, and any additional information that supports your	before the . If you want to nd include include total why metering is
E	Each Well has less than 30 acres that are irrigated. For this reason I am reason for a meter.	
		Upload Attachment
	elect the type of groundwater LCS you are applying for and complet orresponding sections of the application.	te the
	Best Management Practices Groundwater LCS - Complete sections	7 and 10
	Graduated Groundwater Cessation Schedule LCS - Complete section	ns 8 and 10
	Percent Reduction Groundwater LCS - Complete sections 9 and 10	

Section 7: Best Management Practices Groundwater LCS

1.			total amount of all irrigated acreage (with un a Best Management Practices Groundwater	,								
2.	system precisi	n that on ap	attachment, write in the box, and/or email a d will be used under this proposal, specifying opplication system, soil moisture sensors, and befer to Section 875(f)(4)(D)(vii) of the emergen	details of your low-energy any corners that will be								
ty	pe of be	est ma	nap(s) of each field with labels for well s , anagement practice, and field crop type.	Upload Map(s)								
4.	Certify	the t	following by initialing or checking each box:									
	a.		tify the use of a low-energy precision applica ated acreage covered under this groundwate	, , ,								
	b.	I cer	tify to not use end guns for irrigation for the	duration of the season.								
	c.	I cer	tify to cease irrigation of corners after June 1	5, 2024.								
	d.	I certify to use soil moisture sensors to inform irrigation timing, and maintenance of such records, which I will make available for inspection the Coordinating Entity, if applicable, and/or the State Water Board.										
	e.	the h trigg Grou a ye	tify that I will further limit irrigation based on hydrologic condition noted in i or ii below. If the ered, the State Water Board will inform all Boundwater LCS applicants for the applicable was certification is required for a Groundwater Estices LCS to be accepted.	nis requirement is est Management Practices vatershed(s). Please note,								
		i.	Scott River Watershed: Snow pack of 80% of Water Resources California Data Exchar snow water equivalent station average (or t April measurement if May snow pack meas gathered) in Scott River watershed.	nge Center's first May he average of the first								
		ii.	Shasta River watershed: A water year deterdry in the Shasta River watershed, as deterthe March 2021 Montague Water Conserva	mined under Table 2 of								

operation plan.

Section 8: Graduated Groundwater Cessation Schedule LCS

A Graduated Groundwater Cessation Schedule LCS may be approved if the applicant provides evidence that irrigated acreage is reduced compared to standard practice on the property (e.g., practice in a similar unregulated year). If applicable, please take crop rotation and number of alfalfa cuttings into account. Under this groundwater LCS type, the applicant must select one of two potential irrigation schedules, listed below. See section 875(f)(4)(D)(vi) of the <u>emergency regulation</u>.

1.	Provide the total amount of irrigated acreage (with units) under your proposal for a Graduated Groundwater Cessation Schedule LCS:
2.	Select the irrigation schedule you certify to implement.
	 ption 1: By the dates below, pumping to irrigate the following percentages of igated acres shall cease: 15% by July 15, 50% by August 15, and 90% by August 31, with a maximum of 8 inches of water to be applied to the remaining 10% of irrigated acres during the remainder of the irrigation season. This 10% can be on land previously fallowed.
	 Option 2: By the dates below, pumping to irrigate the following percentages of irrigated acres shall cease: 20% by July 20, 50% by August 20, and 95% by September 5, with a maximum of 6 inches of water to be applied to the remaining 5% of irrigated acres during the remainder of the irrigation season. This 5% can be on land previously fallowed.
de pra	Please upload an attachment, write in the box, or email a description that emonstrates that the proposal reduces irrigation as compared to standard actices on the property (e.g., practice in a similar unregulated year). If applicable, ease take crop rotation and number of alfalfa cuttings into account.
ٳ	Jpload Attachmen
5. as	Please upload or email a map(s) that identifies which well(s) and field(s) are sociated with each cessation date covered by this groundwater LCS.

Upload Map(s)

Section 9: Percent Reduction Groundwater LCS

The applicable percent reduction in groundwater pumping noted below must be demonstrated for the Percent Reduction Groundwater LCS consistent with section 875 f (4)(D)(v) of the emergency regulation, and summarized below.

- **Scott River Watershed:** A net groundwater pumping reduction of 30% throughout the irrigation season (April 1 October 31) and a monthly reduction of 30% between July 1 through October 31.
- Shasta River Watershed: A net groundwater pumping reduction of 15% throughout the irrigation season (March 1 November 1) and a monthly reduction of 15% between June 1 through September 30.
- The relevant water use reduction shall be based on a comparison to a baseline irrigation season (i.e., 2020, 2021, 2022, or 2023).
 - BUT, if the previous year baseline is higher than the following applied water rates:
 - > 33 inches per year for alfalfa,
 - > 14 inches per year for grain, or
 - > 30 inches per year for pasture
 - ❖ Then the above values shall be used as the baseline UNLESS the applicant provides sufficient additional information supporting an alternative baseline.
- Please provide the total amount of irrigated acreage (with units) under your proposal for a Percent Reduction Groundwater LCS.
- If you are proposing a Percent Reduction Groundwater LCS, attach or email the following files to the State Water Board and your Coordinating Entity.
 - a. A description of practices that reduces groundwater pumping and how the State Water Board or Coordinating Entity, if applicable) can verify those actions.

see attached file			

Jpload Attachmen

b. A spreadsheet with monthly pumping volumes for the selected baseline year and current year. Use one row per irrigation method per field.

Upload Baseline Pumping

c. Map(s) with each field labelled.

Upload Map(s)

Section 10: List of Fields, APNs, and Water Rights

List the fields associated with this groundwater LCS application, if each property is owned or leased, and the assessor's parcel number (APN that contains each field. If a field is on multiple parcels, provide the APN that contains the majority of the field. Alternatively, you may also electronically submit a document or spreadsheet with this information. Each field can only have **one (1)** type of groundwater LCS associated with it.

Irrigated Field Name(s) or Number(s)	Is the parcel owned or leased?	Assessor Parcel Number(s)	Water Right(s)	Groundwater LCS Type
JIM				Percent Reduction
WELL 1				Percent Reduction
WELL 2				Percent Reduction

Upload Attachment

Submission of Groundwater LCS Proposal to State Water Board

A groundwater LCS may require the applicant to attach or email additional information, such as descriptions, spreadsheets, maps, or other relevant information. State Water Board staff request descriptions be submitted as Microsoft Word (.docx, .doc) or Adobe PDF (.pdf) files as these file formats are easiest for staff to work with applicants to review and revise, if needed. For the same reasons, staff request that applicants submit spreadsheets as Microsoft Excel files (.xlsx, .xls).

Submitting documents in other formats, such as photographs of narratives or narratives via traditional mail may lengthen the review process. If you need assistance, please contact your Coordinating Entity (see Section 4 or State Water Board staff identified in the Contact Information section below.

To submit your application with all required materials (see Section 2, you can:

• Use the online form

Submit

- Email DWR- ScottShastaDrought@Waterboards.ca.gov
- Mail

State Water Resources Control Board Division of Water Rights - Instream Flows Unit 1001 I Street - 14th Floor Sacramento, CA 95814

Contact Information for State Water Board Staff

Kevin DeLano

Phone: (916) 319-0631

Email: Kevin.DeLano@waterboards.ca.gov

Shahab Araghinejad
 Phone: 916 319-0975

Email: shahab.araghinejad@waterboards.ca.gov

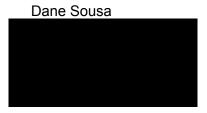
Division of Water Rights – Scott-Shasta Phone Line and Email

Phone: 916 327-3113

Email: ScottShastaDrought@waterboards.ca.gov

What's Next?

State Water Board staff will review each groundwater LCS application. If staff identify errors, a need for additional information, or changes that need to be made, they will contact the applicant. Once staff determine the application is substantially complete, it will be posted as pending on the State Water Board's <u>Local Cooperative website</u> for the Scott River and Shasta River watersheds emergency regulation.



April 15, 2024

State Water Resources Control Board 1001 I St. Sacramento, CA 95814

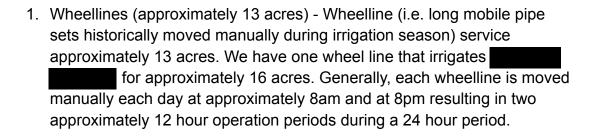
Re: 2024 Cooperative Solution - Sousa Farm

To Deputy Director,

As authorized by Local Cooperative Agreement 875(f)(4)(d) for the Scott River watershed, Dane Sousa at Sousa Farm is providing this letter to further describe its proposed Local Cooperative Solution (LCS) for the 2022 irrigation season.

Introduction/History Irrigation Practices

We own approximately 75 acres at the above address, of which we irrigate 65 acres that has been cultivated as seasonal Alfalfa, grass, and we've rotated crops such as Winter Wheat and Teff grass since 2014. In addition to the 75 acres on we lease approximately 16 acres on acres. Our farm is irrigated by groundwater, and we do not have any access to surface water. Irrigation for seasonal fields include two agricultural wells that supply the following areas and equipment:



Irrigation season for seasonal pasture across our property, including in 2020 (base year) typically begins for us about the first week in April each year and continues into

late August, subject to variance depending on annual temperature and precipitation conditions.

The attached spreadsheet gives the reduction calculated to reduce usage by 30.44% over the 2020 usage. We have installed 2 PIVOTS with the Lepa system and the reduction of nozzles on the sprinkler heads for the wheellines, and to only irrigate until the end of June will meet the reduction requirements.

Specific 2024 Conservation Practices and Infrastructure Improvements

Conservation efforts undertaken since 2020 and proposed conservation efforts for 2024 include:

- Wheelline We have replaced the nozzle sizes from 3-16 to 5-32 which saves
 on the amount of water used. We have also reduced the irrigation set times from
 12 hours to 10 hours sets per day for (McAdams Creek). We intend to maintain a
 written irrigation log detailing wheelline run times and will present that log to the
 cooperating entity upon request.
- Crop Rotation Reduced ground we are irrigating due to Spring Wheat is in production of 13 acres and will not be needing as much irrigation for (124 Oak Hill Ln)
- **Summer Forbearance** Unlike most years we would be using approximately 64 acres in full production for irrigation as this year after June we will only have 51 acres in irrigation production and will cease irrigating all other acres.
- **Pivot 1 and Pivot 2** 1.5 inches of water per pass. We intend to log 1 day a month our meter for our pivots for the duration of the irrigation season.

Please note this plan is offered in good faith in connection with the 2024 irrigation season only. All rights, claims and defenses with regard to the matters described herein are hereby expressly reserved. Moreover, and as this plan is offered voluntarily (without any current legal obligation to undertake the matters described herein), should any governmental or NGO funds later become available for any forbearance or improvement efforts to which the Sousa Farm would otherwise be entitled, nothing herein shall be construed to limit the availability of such funds to the Sousa Farm provided that we materially perform the 2024 undertakings described herein. Water saved under this proposal will not be transferred to parcels not included under the LCS and we will not knowingly or intentionally otherwise take actions outside of the LCS that diminish, in any material way, the overall thirty percent reduction established by this proposal.

These conservation efforts can be verified on inspection conducted by the coordinating
entity, hopefully scheduled because we do use pesticides from time to time and those
products have restricted entry protocols. As a partner in our family operation, I, Dane
Sousa will be the contact person for this LCS. I can be reached by mail, the phone
number listed above, and/or by email at

Thank you for your consideration in this matter.

Regards, Sousa Farm

Dane Sousa, Owner/Operator

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