



## Application Form for 2025 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 2025 irrigation season under the Scott River and Shasta River watersheds [emergency regulation](#). Applications must be submitted for at least a full irrigation season. A separate application should be submitted for each type of groundwater LCS proposal. **The form and attachments are due by April 15, 2025.**

**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  
1001 I Street - 14th Floor  
Sacramento, CA 95814

### Section 1: Applicant Information

|                                  |                |
|----------------------------------|----------------|
| Name                             | Patricia Ellis |
| Name of Farm, Ranch, or Business | Ellis Trust    |
| Phone Number                     |                |
| Email Address                    |                |

**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: Patricia Ellis

Date: 4 - 25 - 25

## 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 all of the required components.
    - Map(s) with each well(s), meter location(s), and field(s) labeled.
  - 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, well location(s) and meter location(s), and field(s) labeled.
  - Percent Reduction Groundwater LCS (see Section 9 of application)
    - Description of verifiable water reduction actions that will be implemented.
    - Spreadsheet with monthly volumes for baseline year and current year. Use one row per irrigation method per field.
    - Map(s) with each well(s), meter location(s), and field(s) labeled.
- A description of existing and planned groundwater metering (Section 6 of application), a time schedule for additional installation or information to support a waiver request, and a plan to record metered extractions or applications weekly and to report them monthly to your Coordinating Entity and/or State Water Board.
- Groundwater Well or Metered Application Information (see Section 5 of application) (paper or email submittal accepted).

### Section 3: Requirements for All Groundwater LCS Proposals

- **Deadline:** Proposals are due to the State Water Board by April 15, 2025.
- **Implementation:** Proposals must be implemented during the entirety of one or more irrigation seasons (including the time 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 or applications covered under the LCS and information on how extractions and/or applications will be recorded weekly and reported monthly to the Deputy Director (or Coordinating Entity, if so agreed). Please note the Coordinating Entity is required to provide this data to the State Water Board.
  - Funding for Meters: The State Water Board has limited 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.
  - Time Schedule for Metering: All applicants should have the required metering equipment installed and operating before the start of irrigation season so that all groundwater extractions or applications covered by the LCS are metered.
  - Waivers: 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 the 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. This includes feasibility evaluation of installing a meter at the well(s) and at the place(s) of use (e.g., pivot).

## 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](#).

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> California Department of Fish & Wildlife<br>Contact: Crystal Robinson<br>(530) 340-0767<br>crystal.robinson@wildlife.ca.gov                                       | <input type="checkbox"/> Shasta Valley Resource Conservation District<br>Contact: Rod Dowse<br>(530) 598-1253<br>rdowse@svrccd.org |
| <input type="checkbox"/> Siskiyou Resource Conservation District<br>Contact: Evan Senf<br>(530) 643-1585<br>evan@siskiyoucd.com   | <input type="checkbox"/> Scott River Water Trust<br>Contact: Chris Voigt<br>(916) 396-0131<br>chrisb.voigt@gmail.com               |
| <input type="checkbox"/> Other, I am proposing an Entity not in the provided options. Please provide the name of the Entity, contact information, and description of qualifications in the box below. | <input type="checkbox"/> I select not to work with a coordinating entity.  |

## Section 5: Groundwater Well Information

Complete the table below or include an attachment for information on the groundwater wells, fields irrigated by the well and the APN, and associated meters that are covered under the proposed groundwater LCS.

- Well ID: Name of the well covered by the proposal LCS
- Well Coordinates: Latitude and Longitude of the well location
- Field APNs: List the APNs for the fields irrigated by the well. Please include APN of fields followed as part of the LCS plan.
- Meter ID: List the meters recording extraction or application from this well.

| Well ID        | Well Coordinates | Field APNs | Meter ID |
|----------------|------------------|------------|----------|
| Patricia Ellis |                  |            | Meter 1  |
|                |                  |            |          |
|                |                  |            |          |
|                |                  |            |          |
|                |                  |            |          |
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|                |                  |            |          |

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


## Section 6: Metering Information

Please describe the metering plan for all the fields that will be irrigated under the LCS. Remember that meters can be installed at the well head or at the place of use (e.g., pivots). All meters should be installed to manufacturers' specifications and recommendations and measurements should be in the expected accuracy range. Fill in the box below, upload an attachment, or email a document or spreadsheet with the information requested in this section.

- a. Describe how you will record weekly extractions or applications and report monthly volumes. Include a description of all water uses associated with each groundwater well that is part of this groundwater LCS. For each meter include the Well ID the meter is recording, the amount of irrigated acres covered and the crop type. Each meter should have an identifier (e.g., Meter #1) included in the description and in the monthly reports.

*For example, "the ranch manager will log meter readings at Well #1 using Meter #1; and for Well #2, the ranch manager will log meter readings at pivots 1 & 2 using Meters #2 and #3." Also note what the water is being used for – "Well #1 irrigates 50 acres of grain on fields A and B, 100 acres of pasture on fields E, G, and Z. Meter #2 will irrigate 75 acres of alfalfa on field Y and Meter #3 will irrigate 25 acres Alfalfa on Field W. The manager will send the logs and photos to the Water Board by no later than the 5th of the month for the preceding month."*

- b. For groundwater wells and applications that are NOT currently metered, in the box below please describe the time schedule and plan to install meters, including a description of efforts to obtain a meter before the initiation of groundwater diversions covered by this groundwater LCS, and when such efforts were undertaken. If you want to file for a waiver to the metering requirement, please use the box below and include information on why metering of your well(s) or applications should be waived. Be sure to include total irrigated acres, distance of the well(s) from surface water, a description of why metering is infeasible, if applicable, and any additional information that supports your waiver request.

I request a metering waiver as only 29.73 acres are actually irrigated. Although parcel [REDACTED] indicates 40 acres there are two driveways plus a portion of the residence yard & a row of timber that are within the 40 acres. Actual agricultural area is 37.9 (1310' x 1260' figured from Google Earth). We now only irrigate with a pivot resulting in 29.73 acres. We previously used rainbirds to water the field's corners but stopped in 2022 to conserve water. The unirrigated corners equal 8.17 acres & are planted in dryland grain. Attached is a map of this parcel from Google Earth which was taken October 2023 when the irrigated area was being cut. It outlines both the irrigated & unirrigated land perfectly. EYL the ground water level is currently 8' from the surface. See Section 9 for verifying the 

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**Select the type of groundwater LCS you are applying for and complete the corresponding sections of the application. A separate application should be submitted for each type of groundwater LCS request.**

- ☐ Best Management Practices Groundwater LCS - Complete sections 7
- ☐ Graduated Groundwater Cessation Schedule LCS - Complete sections 8
- ☒ Percent Reduction Groundwater LCS - Complete sections 9

Please indicate the proposed time period for the LCS you are applying for (e.g., one irrigation season or multiple seasons). If multiple seasons, please provide the time period.

|                       |
|-----------------------|
| one irrigation season |
|-----------------------|



## Section 7: Best Management Practices Groundwater LCS

1. Provide the total amount of all irrigated acreage (with units) covered under your proposal for a Best Management Practices Groundwater LCS:

N/A

2. Write in the box and/or email a description of the irrigation system that will be used under this proposal, specifying details of your low-energy precision application system, soil moisture sensors, and any corners that will be irrigated. (Refer to Section 875(f)(4)(D)(vii) of the [emergency regulation](#).)

3. Please include a map(s) of each field with labels for well(s), meter(s), and field crop type.

4. Certify all of the following by initialing or checking each box:

- ☐ a. I certify the use of a low-energy precision application (LEPA) system on all irrigated acreage covered under this groundwater LCS.
- ☐ b. I certify to not use end guns for irrigation for the duration of the season.
- ☐ c. I certify to cease irrigation of corners after June 15, 2025.
- ☐ d. I certify to use soil moisture sensors to inform irrigation timing, and maintenance of such records, which I will make available for inspection by the Coordinating Entity, if applicable, and/or the State Water Board.
- ☐ e. I certify that I will further limit irrigation based on water year, in the event of the hydrologic condition noted in i or ii below. If this requirement is triggered, the State Water Board will inform all Best Management Practices Groundwater LCS applicants for the applicable watershed(s).
- i. Scott River Watershed: Snow pack of 80% or less of the Department of Water Resources California Data Exchange Center's first May snow water equivalent station average (or the average of the first April measurement if May snow pack measurements are not gathered) in Scott River watershed.
- ii. Shasta River watershed: A water year determination of dry or very dry in the Shasta River watershed, as determined under Table 2 of the March 2021 Montague Water Conservation District water operation plan.



## Section 8: Graduated Groundwater Cessation Schedule LCS

A Graduated Groundwater Cessation Schedule LCS may be approved if the applicant agrees to a below schedule AND provides evidence that irrigated acreage is reduced compared to standard practice on the property (e.g., practice in a similar unregulated year). 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 [emergency regulation](#).

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.

☐

**Option 1:** By the dates below, pumping to irrigate the following percentages of irrigated 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.

4. Please write in the box or include a description that demonstrates that the proposal reduces irrigation as compared to standard practices on the property (e.g., practice in a similar unregulated year). If applicable, please take crop rotation and number of alfalfa cuttings into account.

5. Please include a map(s) that identifies the well(s), meter(s), and which field(s) are associated with each cessation date covered by this groundwater LCS.

## 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 at least 30% throughout the irrigation season (April 1 – October 31) and a monthly reduction of at least 30% between July 1 through October 31.
- **Shasta River Watershed:** A net groundwater pumping reduction of at least 15% throughout the irrigation season (March 1 – November 1) and a monthly reduction of at least 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.

29.73

- If you are proposing a Percent Reduction Groundwater LCS, please include 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.

1) In 2022 irrigating the field corners totaling 8.17 acres was eliminated. It is now planted in dryland grain. This is verifiable by the attached Percent Reduction Sheet.

2) As indicated in the Percent Reduction Sheet attached, we have reduced the pivot watering time by 30% from 1800 hours to 1260 hours. These hours are verifiable by the Cumulative Hour Meter on the Pivot Control Panel. Approximately the 1st & 15th of each month the farm

- b. A spreadsheet with monthly pumping volumes for the selected baseline year and current year. Use one row per irrigation method per field.
    - c. Map(s) with each field labeled, well locations, and meter locations.

## **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
- Email: DWR-ScottShastaDrought@Waterboards.ca.gov
- Mail:  
State Water Resources Control Board  
Division of Water Rights - Instream Flows Unit  
1001 I Street - 14<sup>th</sup> Floor  
Sacramento, CA 95814

### **Contact Information for State Water Board Staff**

- Rachel Wright  
Phone: (916) 322-8420  
Email: Rachel.Wright@waterboards.ca.gov
- Robert Solecki  
Phone: (916) 341-5400  
Email: Robert.Solecki@Waterboards.ca.gov
- Division of Water Rights – Scott-Shasta Phone Line and Email  
Phone: (916) 327-3113  
Email: DWR-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 [Local Cooperative website](#) for the Scott River and Shasta River watersheds emergency regulation.

## Wright, Rachel @Waterboards

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**From:** [REDACTED]  
**Sent:** Friday, April 25, 2025 3:04 PM  
**To:** WB-DWR-ScottShastaDrought  
**Subject:** 2025 LCS Application - Patricia Ellis/Ellis Trust  
**Attachments:** Waterboard 2025 LCS Application.pdf; Waterboard 2020 v 2025 Acre Feet.docx; 2025 Map for LCS.jpg

**Caution:** External Email. Use caution when clicking links or opening attachments. When in doubt, contact DIT or use the Phish Alert Button.

Attached are documents required for your review of my 2025 Local Cooperative Solution:

1) Attached is the completed application:

-Note in Section 4 I have selected California Department of Fish & Wildlife as Coordinating Entity. Crystal Robinson at DFW advised they would contact me regarding a binding agreement after the Waterboard reviewed the application.

-Please note in Section 6b I am requesting a **Waiver for the Metering Requirement** as the actual irrigated acreage is 29.73 as outlined on the Google Map attached.

-Section 9 indicated how water usage can be verified using the Cumulative Hour Meter which is standard on the Valley Pivot Control Panel.

2) Attached is the Estimated Water Usage for 2025 which continues to be 30% less than the 2020 base year.

3) Google Map is attached indicating the agricultural well and the 40 acre agricultural parcel. You can clearly see that only 37.9 acres is usable ag land of which only 29.73 acres is actually irrigated. Let me know if you need the calculations.

Please review the attachments and advise me if anything further is needed.

Thank you,

Patricia (Pat) Ellis  
Owner  
[REDACTED]

## ELLIS TRUST

### 2020 ACTUAL HOURS/ACRE FEET -VS- 2025 70% REDUCED ESTIMATED HOURS/ACRE FEET

| <u>2020<br/>MONTH</u> | <u>ACTUAL<br/>HOURS</u> | <u>ACTUAL<br/>ACRE FEET</u> | <u>2025<br/>MONTH</u> | <u>ESTIMATED<br/>HOURS</u> | <u>ESTIMATED<br/>ACRE FEET</u> |
|-----------------------|-------------------------|-----------------------------|-----------------------|----------------------------|--------------------------------|
| April 2020            | 100                     | 5.52                        | April 2025            | 0                          | 0                              |
| May 2020              | 100                     | 5.52                        | May 2025              | 105                        | 5.79                           |
| June 2020             | 450                     | 24.86                       | June 2025             | 315                        | 17.40                          |
| July 2020             | 600                     | 33.15                       | July 2025             | 420                        | 23.20                          |
| August 2020           | 450                     | 24.86                       | August 2025           | 315                        | 17.40                          |
| September 2020        | 100                     | 5.52                        | September 2025        | 105                        | 5.79                           |
| October 2020          | 0                       | 0                           | October 2025          | 0                          | 0                              |
| <u>TOTALS</u>         | <b>1800</b>             | <b>99.43</b>                | <u>TOTALS</u>         | <b>1260</b>                | <b>69.58</b>                   |