



Patterson Creek Ranch
Greg and Dona Farnam

3/9/2022

California State Water Resources Control Board
Attn: Adam Weinberg
1001 I Street
Sacramento, CA 95814

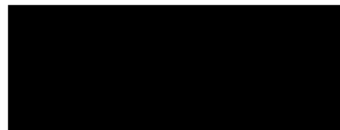
Re: Patterson Creek Ranch LCS Application

Mr. Weinberg,

Pursuant to Title 23, Division 3, Chapter 2, Article 23.5, section 875(f)(4)(D), Greg and Dona Farnam apply to be a part of a Local Cooperative Solution (LCS) for the Scott River Watershed through a 30% reduction in ground water irrigation use. This 30% reduction will be met by a change in crop production between 2020 and 2022. A reasonable estimation of irrigation requirements for each crop, acreage, and corresponding year are detailed in attachment 2. Crop water requirements are based on existing data from UC Davis Co-operative research, soil types, and irrigation type that exists for the intermountain region. The greatest savings in this proposed plan comes from the elimination of late-season (July – Sept) corn silage production and replaced with a significantly less water using perennial grass.

Reasonable assurance for compliance of the proposed 30% reduction can be demonstrated by verification of existing crop type in April and August of the 2022 irrigation season by the Coordinating Entity. Though not necessary for compliance determination of this plan, a water application and soil moisture monitoring program will be established for future water use efficiency determination. Through the use of soil moisture resistance blocks in each field and chronological record keeping, better irrigation decisions will yield greater water savings and profitability in the future. An example record keeping form is demonstrated in attachment 3.

The Coordinating Entity for the LCS agreement will be Siskiyou Resource Conservation District (SRCD). SRCD will inspect Patterson Creek Ranch in April and August of 2022. SRCD will add





PCR acreage to the list of other managed LCS plans to meet the 400 ac minimum. Unless a deviation from the approved LCS plan exists, no inspection report to the SWRCB will be made. Upon notice of an agreement violation, the Owners of Patterson Creek Ranch and the SWRCB will be notified within 5 business days. An end of season report for compliance to the LCS agreement will be performed by SRCD and submitted to the owners of Patterson Creek Ranch and the SWRCB via email adam.weinberg@waterboards.ca.gov by 12/31/2022.

Further application details can be found in included attachments. If further information is required, please do not hesitate to contact jointly, by mail/email, Dona Farnam [REDACTED] and Warren Farnam [REDACTED]. For a successful 30% reduction plan, any alteration to the application must be informed and approved by both the Applicant and the Coordinating Entity.

Sincerely,

A handwritten signature in blue ink, appearing to read "Greg Farnam", written over a horizontal line.

Greg Farnam
Owner/Applicant- Patterson Creek Ranch

A handwritten signature in blue ink, appearing to read "Dona Farnam", written over a horizontal line.

Dona Farnam
Owner/Applicant- Patterson Creek Ranch

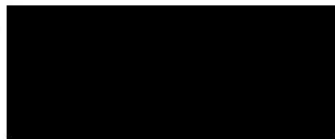
A handwritten signature in black ink, appearing to read "Warren Farnam", written over a horizontal line.

Warren Farnam
FRS Owner/LCS Preparer

Enc:

- Attachment 1 – Map of Patterson Creek Ranch
- Attachment 2 – 30% Reduction Table
- Attachment 3 – Irrigation Monitoring Worksheet
- Attachment 4 – Additional Application Information
- Attachment 5 - Coordinating Entity Agreement

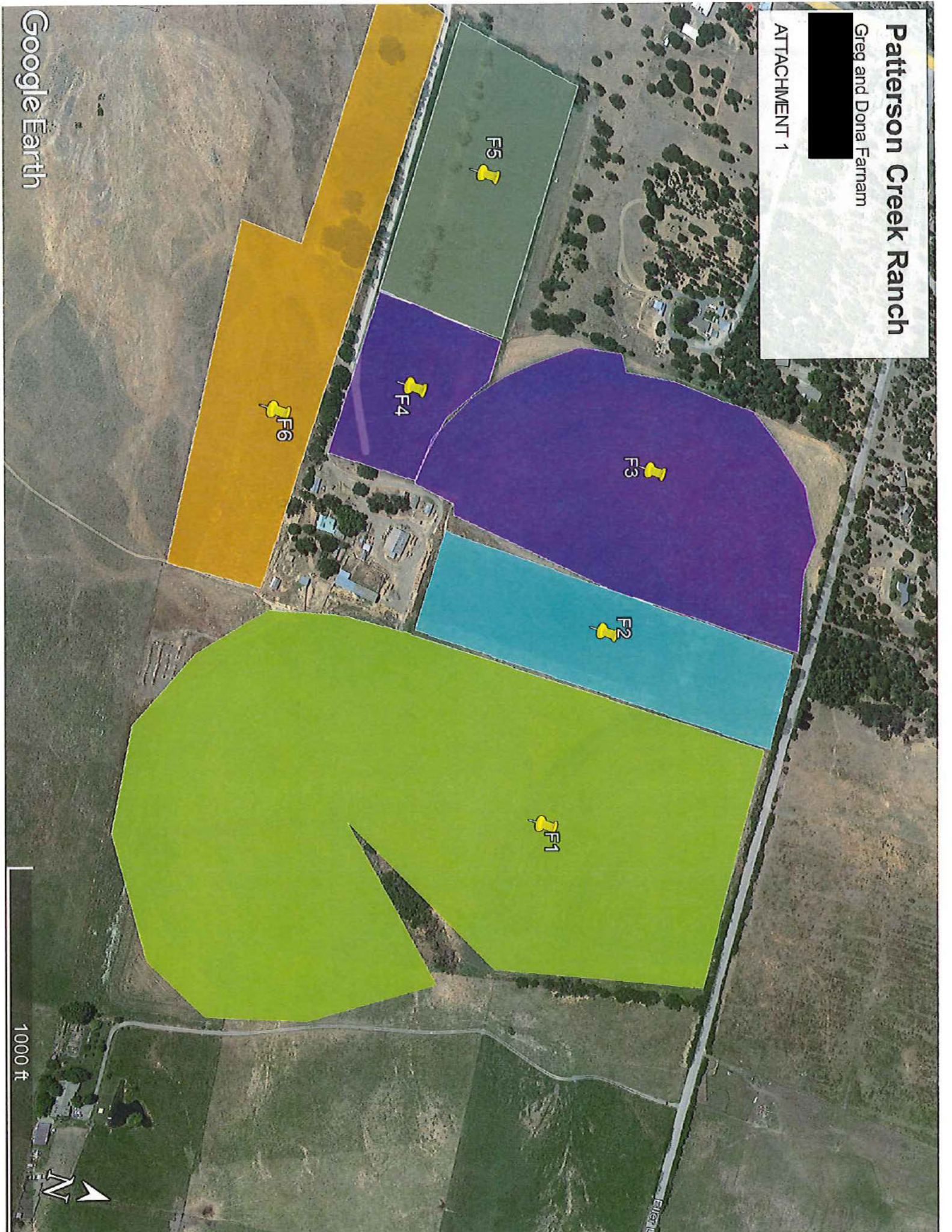
v1.4



Patterson Creek Ranch

Greg and Dona Farnam

ATTACHMENT 1



Google Earth

1000 ft





Patterson Creek Ranch

2020 vs 2022 GW Reduction Plan

				2020							
Field	GPS Location	Soil Type	Irrigation type	Field Ac	Crop	in/ac	2nd Crop (change July-Sept)	in/ac	Total Inches	Total AF/ac	Total GW AF/field
F1	41°30'46.87"N 122°53'46.67"W	Diyou loam, drained	Pivot Low Pressure	42	Triticale	9	Corn	32	41	3.4	143.5
F2	41°30'47.10"N 122°53'54.90"W	Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	9.5	Alfalfa	30	no season change		30	2.5	23.8
F3	41°30'47.20"N 122°54'1.94"W	Atter Stoner gravelly sandy loam	Pivot-Low Pressure	19	Orch. grass	20	no season change		20	1.7	31.7
F4	41°30'39.03"N 122°54'1.62"W	Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	3.9	Orch. grass	22	no season change		22	1.8	7.2
F5	41°30'39.31"N 122°54'10.71"W	Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	8	Wheat	12	Sanfoin	10	22	1.8	14.7
F6	41°30'35.40"N 122°53'58.90"W	Atter Stoner gravelly sandy loam	Wheel-line-LP/Handline	11.3	Triticale	12	Grass mix	10	22	1.8	20.7
TOTALS				93.7							241.5

				2022							
Field	GPS Location	Soil Type	Irrigation type	Field Ac	Crop	in/ac	2nd Crop (change July-Sept)	in/ac	Total Inches	Total AF/ac	Total GW AF/field
F1	41°30'46.87"N 122°53'46.67"W	Diyou loam, drained	Pivot-Low Pressure	42	Wheat	9	New perennial Grass mix	10	19	1.6	66.5
F2	41°30'47.10"N 122°53'54.90"W	Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	9.5	Alf/grass	30	no season change		30	2.5	23.8
F3	41°30'47.20"N 122°54'1.94"W	Atter Stoner gravelly sandy loam	Pivot-Low Pressure	19	Orch. grass	20	no season change		20	1.7	31.7
F4	41°30'39.03"N 122°54'1.62"W	Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	3.9	Orch. grass	22	no season change		22	1.8	7.2
F5	41°30'39.31"N 122°54'10.71"W	Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	8	Sanfoin	22	no season change		22	1.8	14.7
F6	41°30'35.40"N 122°53'58.90"W	Atter Stoner gravelly sandy loam	Wheel-line-LP/Handline	11.3	Grass mix	22	no season change		22	1.8	20.7
TOTALS				93.7							164.5

Reduction 2020 vs 2022

Total AF estimated reduction by incorporating 2022 crop changes **31.9%**



ATTACHMENT 4

ADDITIONAL APPLICATION INFORMATION – PATTERSON CREEK RANCH

IRRIGATION INFORMATION

- Fields co-located on the following APNs:
 - 023-030-420-000
 - 023-040-260-000
 - 023-051-370-000
 - 023-430-110-000
- Irrigation groundwater source located NE corner of F1, parcel: 023-030-420-000.
- Groundwater source is an overlying right.
- Groundwater source produces approximately 675 gpm.
- Irrigation season is typically April – October.
- No surface water irrigation will be used on any of the identified fields in this plan.
- Precipitation and ET is not included in crop irrigation calculations.
- Irrigation monitoring information can be submitted to SRCD upon request.

INCORPERATED WATER CONSERVATION PRACTICES PAST 10 YEARS

- Fields F1 and F3 have switched to low pressure pivots vs wheel lines.
- Fields F2, F4, F5, and F6 wheel lines have been converted to self-adjusting low flow nozzles.
- Fields F1, F2, and F3 have incorporated moisture monitoring via installation of resistance blocks.
- GW turbine converted to variable frequency drive operation to support low pressure operation.
- Participated in UC Davis Extension water efficiency studies.

GLOSSARY

Ac-acre

AF- acre feet

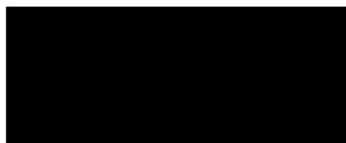
Alf-alfalfa

APN- assessor parcel number

GPM-gallons per minute

GW-groundwater

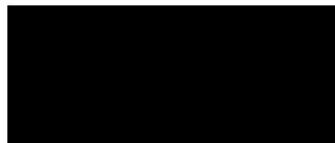
Orch-Orchard grass





REFERENCE INFORMATION

- Intermountain Irrigated Pastures and Mountain Meadows
<https://ucanr.edu/sites/Rangelands/files/281128.pdf>
- Intermountain Alfalfa Management
<https://cesiskiyou.ucanr.edu/files/117595.pdf>
- UC Drought Management – Corn
https://ucmanagedrought.ucdavis.edu/Agriculture/Crop_Irrigation_Strategies/Corn/
- Center Pivot Irrigation of Corn – University of Idaho Extension
<https://www.extension.uidaho.edu/publishing/pdf/BUL/BUL0881.pdf>
- UC Davis Drought Management – Agriculture Irrigation Water Management
<https://ucmanagedrought.ucdavis.edu/Agriculture/>
- Monitoring Soil for Maximum Profit Irrigation Management
<https://alfalfa.ucdavis.edu/+symposium/proceedings/2002/02-073.pdf>
- Fulton, Allan, Khaled Bali, Zazk Mousli, and Lee Jackson. 2006. Small grains production manual, Part 5: Irrigation and water relations. UC Davis.
- Irrigation Management for Wheat
<https://alfalfa.ucdavis.edu/+symposium/proceedings/2012/12-109.pdf>





SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617

Email: sisqrcd@sisqtel.net

Website: www.siskiyougcd.com

Binding Agreement

Contractor Contact Information:

<i>Business:</i>	Siskiyou RCD
<i>Contact Person:</i>	Chris Voigt
<i>Address:</i>	P.O. Box 268 / 450 Main St Etna, Ca 96027
<i>Phone:</i>	530.467.3975
<i>Email:</i>	chris@siskiyougcd.com

Landowner Contact Information:

<i>Business:</i>	Patterson Creek Ranch
<i>Contact Person:</i>	Greg or Dona Farnam
<i>Address:</i>	[REDACTED]
<i>Phone:</i>	[REDACTED]
<i>Email:</i>	[REDACTED]

Background

Under the 2021 drought emergency regulation instated by the State Water Resources Control Board (SWRCB) that established drought emergency minimum flows in the Scott River, a Local Cooperative Solution (LCS) may be proposed by individuals or groups to submit by petition to the Deputy Director of the SWRCB as an alternative means of reducing water use to meet or preserve drought emergency minimum flows and provide fishery benefits, in lieu of curtailment. This binding agreement between the (Landowner) and Siskiyou Resource Conservation District (SRCD) will monitor the SRWCB approved LCS to achieve 1) a net reduction of water use of 30 percent throughout the irrigation season; and 2) a monthly reduction of at least 30 percent in the July through October 31 period, as compared to 2020.



SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617

Email: sisqred@sisqtel.net

Website: www.siskiyoured.com

Recitals

1. Section 875(f)(4)(D) of the drought emergency regulation provides a specific type of LCS that was determined to be sufficient for approval by the Deputy Director;
2. For overlying or adjudicated groundwater diversions for irrigated agriculture described in sections 875.5(f)(4)(D)(i)-(iii) [Scott River], the Deputy Director may approve a groundwater-basin-wide, groundwater sub-basin-wide, or any number of individual local cooperative solutions totaling at least 400 acres where:
 - i. The proposal is based on a binding agreement. "Such binding agreement may be made with a coordinating entity with the expertise and ability to evaluate and require performance of the agreement, for example with the California Department of Fish and Wildlife (CDFW), the National Marine Fisheries Service, the Scott Valley and Shasta Valley Watermaster District, a non-profit organization with expertise and experience in water-saving transactions or similarly qualified entity."
 - ii. For the Scott River: "The proposal provides at least: 1) a net reduction in water use of 30 percent throughout the irrigation season (April 1-October 31), as compared to the prior irrigation season; and 2) a monthly reduction of at least 30% in the July 1 through October 31 period, as compared to the prior year or 2020. Such reduction may be demonstrated by evidence that provides a reasonable assurance that the change in farming practice or other action results in at least the relevant proportionate reduction. Such evidence may include but is not limited to: pumping reports; actions that will be taken to reduce water use; estimation of water saved from conservation measures or changes in irrigation or planting decisions; and electric bills."

Proposed Local Cooperative Solution: *(Specific action plan to be completed by landowner, see attached LCS application form)*



SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617

Email: sisqrcd@sisqtel.net

Website: www.siskiyourcd.com

Binding Agreement Terms

The Landowner is required to adhere to the LCS, as approved by SWRCB. The Landowner has requested that SRCD serve as the coordinating entity. As such, both parties agree to the following:

- For the duration of this binding agreement where SRCD is the coordinating entity, the Landowner shall give SRCD the right to reasonably access the included parcels for the limited purpose of verifying execution of the LCS. Any individual not directly employed or contracted by SRCD shall provide pre-notification to, and shall obtain approval by the Landowner before accessing the property,
- SRCD will strive to notify the Landowner a day in advance of visiting the parcels and shall provide the Landowner or designee the ability to participate in monitoring activities,
- It is anticipated that SRCD representatives will visit the property approximately twice per month to monitor the approved LCS, unless inadequacies are discovered, in which case additional field visits will occur until inadequacies are rectified. A monitoring inspection may include verification of any or all of the actions described in the conservation plan and may include inspection checklist/notes/reports and photo verification,
- SRCD will submit the information regarding the verification materials and actions described in this agreement, and conservation plan incorporated by reference, to the State Water Board upon request, for the purposes of verifying compliance with the LCS,
- This binding agreement is not intended to preclude, harm, or otherwise interfere with the landowner's ability to secure any funding to mitigate the financial impacts imposed by the emergency regulation or proposed conservation practices. SRCD supports the use of funding programs to ameliorate the costs of implementing the conservation practices described in the proposed conservation plan: planning and cooperation under a voluntary LCS should not undermine the ability to receive such funding,
- This binding agreement may be terminated by either party at any time. Both parties agree to take reasonable measures to resolve any concerns related to the performance of the LCS, negative interpersonal interaction, or any unforeseen circumstance prior to invoking termination,
- As the irrigation season unfolds, there may be reason to change the terms of the LCS or this binding agreement with respect to its implementation and verification. Any such changes to the LCS or service agreement will need to be agreed upon by the Landowner



SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617

Email: sisqrcd@sisqtel.net

Website: www.siskiyoured.com

and SRWCB. If a Landowner requests SRCD assistance with an updated LCS, the SRCD and Landowner will enter into a new Binding Agreement and,

Payment

In consideration for the services to be performed by SRCD, the Landowner agrees to pay SRCD at the rate of \$75.00 per hour for initial consultation and \$75.00 per hour for all services rendered after signing of the binding agreement.

Expenses

The Landowner will reimburse SRCD for expenses that are attributable directly to work performed under this Agreement. Any expenses incurred will be approved by the Landowner beforehand. SRCD will submit an itemized statement of Contractor's expenses attached with invoicing.

Terms of Payment

Upon completion of SRCD services under this binding agreement, the SRCD will submit an invoice. The Landowner will pay SRCD the compensation described within 30 days of receiving SRCD's invoice.

Term of Agreement

This agreement will become effective when signed by both parties and will terminate on:

- November 1, 2022, or
- The date a party terminates the binding agreement.
- Monitoring information will be collected by the SRCD and shared with State Water Board as a field report in accordance with their reporting schedule or upon request
- SRCD is not authorized to and will not distribute data or other information regarding work done under this contract to any third party without previous written approval by the Landowner
- Landowner agrees that water saved under the LCS will not be transferred to parcels not included under the LCS, and Landowner 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 the actions described in the LSC



SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617

Email: sisqred@sisqtel.net

Website: www.siskiyoured.com

Signatures

Chris Vandy
SRCD Representative
5/6/2022
Date

Mary Jones
Landowner
5/6/2022
Date



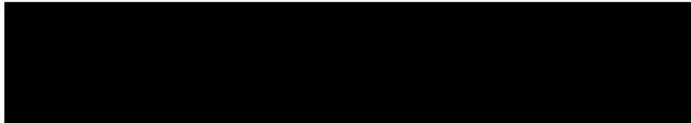
SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027
PHONE (530) 467-3975 FAX (530) 467-5617
Email: sisgred@sisqtel.net
Website: www.siskiyoured.com

**APPLICATION TO SISKIYOU RCD AS COORDINATING ENTITY for the SCOTT VALLEY
GROUNDWATER REDUCTION LOCAL COOPERATIVE SOLUTION**

The following request is being submitted pursuant to Section 875, subdivision (f)(D) of the Scott-Shasta Drought Emergency Regulation of the State Water Resources Control Board (SWB). The purpose of this Local Cooperative Solution (LCS) is to document the applicant’s proposed reduction in use of overlying or adjudicated groundwater use by a certain amount over the entire irrigation season.

Applicant’s Name: Patterson Creek Ranch



Owner of property (if different): Greg and Dona Farnam

Leaseholder of property (if different): [Click or tap here to enter text.](#)

Other Contact Info: Warren Farnam 

Identify Specific Parcels served by overlying or adjudicated groundwater for irrigation, as identified in relevant curtailment order (SO# or SG#). Include irrigated acreage and number of wells.

Table 1 – Parcels, water rights, acreage, and wells to be included in this Agreement

Field Designation	Adjudicated right #	Overlying right?	SWB - SG # or SO# (optional)	# irrigated acres	# Wells (optional)
1		Y		42	
2		Y		9.5	
3		Y		19	
4		Y		3.9	
5		Y		8	
6		Y		11.3	

Total irrigated acres to be included in this agreement: 93.7

► Attach Map of properties to be included in plan



SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617

Email: sisqred@sisqtel.net

Website: www.siskiyoured.com

I agree to pay the RCD for its time to help prepare my water reduction plan at the rate of \$75/hr. When your LCS plan is complete, a Binding Agreement will need to be signed with the RCD as your designated Coordinating Entity. The RCD will need to verify that the plan's actions are being met.

[Handwritten Signature]
Applicant signature

5/6/2022

Date

[Handwritten Signature]
Siskiyou RCD signature

Click or tap here to enter text.

Date

5/6/2022