



**CALIFORNIA  
ENERGY COMMISSION**



**California Energy Commission  
August 14, 2024 Business Meeting  
Backup Materials for Resighini Rancheria**

The following backup materials for the above-referenced agenda item are available in this PDF packet as listed below:

1. Proposed Resolution
2. Grant Request Form
3. Scope of Work

**[PROPOSED]**

**RESOLUTION NO: 24-0814-XX**

**STATE OF CALIFORNIA  
STATE ENERGY RESOURCES  
CONSERVATION AND DEVELOPMENT COMMISSION**

**RESOLUTION: Resighini Rancheria**

**RESOLVED**, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

**RESOLVED**, that the CEC approves agreement TCA-24-008 with Resighini Rancheria for a \$399,949 grant, and adopting staff's determination that this action is exempt from CEQA. The agreement will produce robust sea level rise vulnerability data from project sites in Del Norte, Sonoma, Santa Barbara, and Santa Cruz Counties that empowers local communities to manage coastal impacts associated with climate change while restoring caretaking practices that will increase social and ecological wellbeing. This project will combine historically-observed patterns in intertidal communities and stewardship practices with advanced imaging, mapping, and analytical techniques to better manage sea level rise impacts on California's rocky intertidal ecosystems; and

**FURTHER BE IT RESOLVED**, that the Executive Director or their designee shall execute the same on behalf of the CEC.

**CERTIFICATION**

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the CEC held on August 14, 2024.

AYE:  
NAY:  
ABSENT:  
ABSTAIN:

Dated:

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Kristine Banaag  
Secretariat



## GRANT REQUEST FORM (GRF)

### A. New Agreement Number

**IMPORTANT:** New Agreement # to be completed by Contracts, Grants, and Loans Office.

**New Agreement Number:** TCA-24-008

### B. Division Information

1. Division Name: STEP
2. Agreement Manager: Quenby Lum
3. MS-:40
4. Phone Number: 916-776-0789

### C. Recipient's Information

1. Recipient's Legal Name: Resighini Rancheria
2. Federal ID Number: 94-2482661

### D. Title of Project

Title of project: Revitalizing Indigenous Caretaking Practices using Tribal Intertidal Digital Ecological Surveys (TIDES) and Seaweed Harvest

### E. Term and Amount

1. Start Date: 8/1/2024
2. End Date: 3/31/2026
3. Amount: \$399,949

### F. Business Meeting Information

1. Are the ARFVTP agreements \$75K and under delegated to Executive Director? No
2. The Proposed Business Meeting Date: 8/14/2024 .
3. Consent or Discussion? Discussion
4. Business Meeting Presenter Name: Quenby Lum
5. Time Needed for Business Meeting: 5 minutes.
6. The email subscription topic is: Enter the email subscription topic name.

#### **Agenda Item Subject and Description:**

RESIGHINI RANCHERIA. Proposed resolution approving agreement TCA-24-008 with Resighini Rancheria for a \$399,949 grant and adopting staff's determination that this action is exempt from the California Environmental Quality Act (CEQA). The project will produce robust sea level rise vulnerability data from project sites in Del Norte County, Sonoma County, Santa Barbara County, and Santa Cruz County that empowers local communities to manage coastal impacts associated with climate change while restoring caretaking practices that will increase social and ecological wellbeing. This project will combine historically-observed patterns in intertidal communities and stewardship practices with advanced imaging, mapping, and analytical techniques to better manage sea level rise impacts on California's rocky intertidal ecosystems. (STEP funding) Contact: Quenby Lum

### G. California Environmental Quality Act (CEQA) Compliance



**1. Is Agreement considered a “Project” under CEQA?**

Yes

If yes, skip to question 2.

If no, complete the following (PRC 21065 and 14 CCR 15378) and explain why Agreement is not considered a “Project”:

Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because:

**2. If Agreement is considered a “Project” under CEQA answer the following questions.**

a) Agreement **IS** exempt?

Yes

Statutory Exemption?

No

If yes, list PRC and/or CCR section number(s) and separate each with a comma. If no, enter “None” and go to the next question.

PRC section number: None

CCR section number: None

Categorical Exemption?

Yes

If yes, list CCR section number(s) and separate each with a comma. If no, enter “None” and go to the next question.

CCR section number: Cal. Code Regs., tit. 14, § 15304 ; Cal. Code Regs., tit. 14, § 15306 ;

Common Sense Exemption? 14 CCR 15061 (b) (3)

No

If yes, explain reason why Agreement is exempt under the above section. If no, enter “Not applicable” and go to the next section.

15304: Minor Alterations to Land. This project will consist of minor alterations in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees except for forestry and agricultural purposes. The project will produce robust sea level rise vulnerability data from project sites in Del Norte County, Sonoma County, Santa Barbara County, and Santa Cruz County that empowers local communities to manage coastal impacts associated with climate change while restoring caretaking practices that will increase social and ecological wellbeing. This project largely consists of training, assessing data, and utilizing 3D mapping for harvesting data. Therefore, this project is exempt pursuant to 14 C.C.R. section 15304 because this project will result in only minor alterations to land with no removal of vegetation.

15306: Information Collection. This project consists of basic data collection, research, experimental management, and resource evaluation activities which do not result in a



serious or major disturbance to an environmental resource. This project consists of low-impact large area imaging and land-use surveys, interviews, and low-impact community seaweed harvesting in five areas from southern to northern California (32.6688° N to 41.993629° N). These data collection activities, which will occur at previously developed areas, will result in no major disturbance to an environmental resource. Therefore, this project is exempt pursuant to 14 C.C.R. section 15306 because it will not result in major disturbances to an environmental resource.

This project does not involve impacts on any particularly sensitive environment; does not involve any cumulative impacts of successive projects of the same type in the same place that might be considered significant; does not involve unusual circumstances that might have a significant effect on the environment; will not result in damage to scenic resources within a highway officially designated as a state scenic highway; the project site is not included on any list compiled pursuant to Government Code section 65962.5; and the project will not cause a substantial adverse change in the significance of a historical resource. Therefore, none of the exceptions to categorical exemptions listed in CEQA Guidelines section 15300.2 apply to this project, and this project will not have a significant effect on the environment.

For these reasons, the proposed work will not have any significant effect on the environment and falls under sections 15304 and 15306.

b) Agreement **IS NOT** exempt.

**IMPORTANT:** consult with the legal office to determine next steps.

No

If yes, answer yes or no to all that applies. If no, list all as “no” and “None” as “yes”.

Additional Documents	Applies
Initial Study	No
Negative Declaration	No
Mitigated Negative Declaration	No
Environmental Impact Report	No
Statement of Overriding Considerations	No
None	Yes

**H. Is this project considered “Infrastructure”?**

No

**I. Subcontractors**

List all Subcontractors listed in the Budget (s) (major and minor). Insert additional rows if needed. If no subcontractors to report, enter “No subcontractors to report” and “0” to funds.

**Delete** any unused rows from the table.



Subcontractor Legal Company Name	CEC Funds	Match Funds
Tolowa Dee-ni' Nation	\$ 40,000	\$0
Santa Ynez Band of Chumash Indians	\$ 40,000	\$0
Kashia Band of Pomo Indians	\$ 40,000	\$0
Amah Mutsun Tribal Band	\$ 40,000	\$0
Scripps Institution of Oceanography	\$ 40,000	\$0
Simon Fraser University	\$ 40,000	\$0

**J. Vendors and Sellers for Equipment and Materials/Miscellaneous**

List all Vendors and Sellers listed in Budget(s) for Equipment and Materials/Miscellaneous. Insert additional rows if needed. If no vendors or sellers to report, enter “No vendors or sellers to report” and “0” to funds. **Delete** any unused rows from the table.

Vendor/Seller Legal Company Name	CEC Funds	Match Funds
No vendors to report	\$	\$

**K. Key Partners**

List all key partner(s). Insert additional rows if needed. If no key partners to report, enter “No key partners to report.” **Delete** any unused rows from the table.

Key Partner Legal Company Name
No key partners to report

**L. Budget Information**

Include all budget information. Insert additional rows if needed. If no budget information to report, enter “N/A” for “Not Applicable” and “0” to Amount. **Delete** any unused rows from the table.

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
GF	21/22	701.105	\$ 399,949

**TOTAL Amount: \$ 399,949**

R&D Program Area: Admin: STEP General

Explanation for “Other” selection Not applicable

Reimbursement Contract #: Not applicable

Federal Agreement #: Not applicable

**M. Recipient’s Contact Information**



**1. Recipient's Administrator/Officer**

Name: Megan Rocha

Address: 177 Nepuey Road 6 areas from southern to northern California, 32.6688° N to 41.993629° N

City, State, Zip: Klamath, CA 95548

Phone:

E-Mail: megan.rocha@resighinirancheria.com

**3. Recipient's Project Manager**

Name: Megan Rocha

Address: 177 Nepuey Road 6 areas from southern to northern California, 32.6688° N to 41.993629° N

City, State, Zip: Klamath, CA 95548

Phone:

E-Mail: megan.rocha@resighinirancheria.com

**N. Selection Process Used**

There are three types of selection process. List the one used for this GRF.

Selection Process	Additional Information
Competitive Solicitation #	GFO-23-701
First Come First Served Solicitation #	Not applicable
Other	Not applicable

**O. Attached Items**

1. List all items that should be attached to this GRF by entering "Yes" or "No".

Item Number	Item Name	Attached
1	Exhibit A, Scope of Work/Schedule	Yes
2	Exhibit B, Budget Detail	Yes
3	CEC 105, Questionnaire for Identifying Conflicts	Yes
4	Recipient Resolution	No
5	Awardee CEQA Documentation	Yes

**Approved By**

Individuals who approve this form must enter their full name and approval date in the MS Word version.



STATE OF CALIFORNIA  
CALIFORNIA ENERGY COMMISSION

Grant Request Form  
CEC-270 (Revised 01/2024)

**Agreement Manager:** Quenby Lum

**Approval Date:** 5/20/2024

**Cultural Resources Unit Supervisor:** Gabriel Roark

**Approval Date:** 05/21/2024

**Integration Unit Supervisor:** Kyle Emigh

**Approval Date:** 5/29/2024

**Deputy Director:** Dian Vorters

**Approval Date:** 05/21/2024

## EXHIBIT A Scope of Work

Name of Recipient: Resighini Rancheria

Project Title: Revitalizing Indigenous Caretaking Practices using Tribal Intertidal Digital Ecological Surveys (TIDES) and Seaweed Harvest

Task	Activities	Timetable in Months	Product(s)/ Deliverable(s)	Performance indicator
<p>Task 1: Establish project framework and hold introductory training to build tribal capacity in conducting research and climate vulnerability assessments in the rocky intertidal.</p>	<p>Train community members of the Tribal Marine Stewards Network (TMSN) on large-area imaging protocols and high-resolution 3D habitat mapping techniques.</p>	<p>- Resighini Rancheria large-area imaging training and survey implementation including 3D habitat model reconstruction with Scripps Institution of Oceanography (SIO) collaborators from September 2024 - October 2024                      - Resighini Rancheria &amp; SIO collaborators deliver lessons learned and training on large-area imaging implementation to additional TMSN communities between October 2024 - December 2024                      - All TMSN nations trained on how to conduct large-area imaging surveys and reconstruct 3D habitat models for ecological assessments by December 2024</p>	<p>Establish 6 permanent monitoring sites for large-area imaging surveys across the territories of participating communities with established baseline survey data captured.</p>	<p>4 TMSN communities trained (represented by 12 community members and Tribal resource managers) on and implemented large-area imaging surveys with successful 3D habitat map reconstruction post-survey.</p>

**EXHIBIT A**  
**Scope of Work**

		- All TMSN nations successfully conducted first, baseline survey and habitat model reconstruction with support from SIO collaborators by October 2024		
Task 2: Establish Tribal priorities in determining and analyzing climate impact and vulnerability indicators to assess place-based climate impacts.	Tribal staff review existing Indigenous Traditional Knowledge (ITK) marine interview transcriptions and convene a tribal community meeting to identify focal species and vulnerability indicators for climate impacts of greatest concern.	Review ITK transcripts by September 2024.  Convene tribal community meeting to identify and reflect on focal species and vulnerability indicators for climate impacts of greatest concern by October 2024.	Generate a prioritized list and/or map of cultural and ecological vulnerabilities to climate impacts of concern as identified by community members.	Number of respondent.  Comprehensive list of socio-cultural indicators to assess regionally specific climate impacts.  Customize visualization and analytical software ( <i>Viscore</i> ) to Yurok language and community-identified focal species and indicators.
Task 3: Characterize current ecological community structure to establish baseline ecosystem assessments from which climate impacts can be	Train Resighini Rancheria staff and community members of the TMSN on data extraction protocols within the 3D habitat model space.  Tribal staff implement trained protocols to	Prepare models reconstructed from surveys for data extraction by November 2024.  Complete species ID using	Complete accurate scaling, orientation, and all 3D model processing necessary for each baseline	%100 biological and ecological data extracted and processed from each

## EXHIBIT A Scope of Work

<p>analyzed with additional time points.</p>	<p>complete species ID and ecological data extraction from baseline surveys.</p>	<p>associated raw imagery collected from surveys by December 2024.</p> <p>Extract ecological and physical spatial orientation data from fully processed models reconstructed from surveys by January 2025.</p>	<p>survey conducted by Resighini Rancheria and TMSN to establish replicable study plots (180m<sup>2</sup>) in virtual repository.</p> <p>9,600 stratified random points identified to species level for each survey event.</p> <p>9,600 ecological data points extracted from 3D habitat model, including latitude, longitude and elevation associated with each species ID.</p>	<p>survey event.</p> <p>Extracted data visualized in 3D habitat space and 2D infographics for presentation to community leaders.</p>
<p>Task 4: Re-survey large-area imaging sites to detect change through time at least three times per year.</p>	<p>Re-survey large-area imaging sites using previously established and trained protocols minimum of three (3) times. Re-surveying activities will be conducted at all project sites.</p>	<p>By October 2025, minimum three (3) monitoring events completed by Tribal staff at very low tides.</p> <p>Assist with large-area imaging establishment and surveys for</p>	<p>Completed minimum of three (3) monitoring events at all project sites, capturing the entire extent of the rocky intertidal.</p> <p>Create timeseries data of all</p>	<p>Successfully reconstructed 3D habitat maps for 100% of survey events completed.</p> <p>All 3D models are 100% processed and</p>

**EXHIBIT A  
Scope of Work**

		<p>additional TMSN communities (min. 2 survey per participating community) by October 2025.</p> <p>By December 2025, Tribal staff will have completed all data processing and analysis with support as desired/needed from SIO collaborators.</p>	<p>sites with analyzed ecological impacts related to physical environmental factors associated with climate change (i.e. sea level variability; storm events; temperature; pH).</p>	<p>analyzed across survey events through time.</p> <p>Successfully established robust timeseries data showing how culturally and ecologically important intertidal areas are changing through time in response to climate impacts.</p>
<p>Task 5: Build tribal capacity for improved climate vulnerability assessments within important cultural and ecological seascapes using robust timeseries data collected through the duration of this project.</p>	<p>Complete correlation analyses as directed by community-determined climate vulnerability indicators.</p> <p>Update vulnerability assessments based on timeseries data.</p> <p>Use updated assessments to determine how climate drivers impact ecological community dynamics within study sites.</p>	<p>Complete correlation analyses as directed by community-determined climate vulnerability indicators for all survey events by December 2025.</p> <p>This includes creating timeseries data of all sites; analyzing how ecological impacts are related to physical environmental factors associated with climate change</p>	<p>Robust climate and ecological vulnerability assessments based on data-rich timeseries analyses.</p> <p>Report that summarizes specific insights into how climate impacts are changing ecological communities within the sensitive habitat of the rocky intertidal.</p>	<p>Updated vulnerability assessments and timeseries data collated and presented to Tribal leadership and interested community partners.</p> <p>Publishable manuscript prepared for submission to both academic and community publications.</p>

**EXHIBIT A**  
**Scope of Work**

		(i.e. sea level variability; storm events; temperature; pH) by December 2025.  Present readily interpretable findings and updated vulnerability assessments to community leadership for all participating nations by January 2026.		
Task 6: Establish Tribal capacity to sustainably conduct and maintain vulnerability assessments in the rocky intertidal ecosystems that will continue to inform adaptive management planning for improved climate resiliency of culturally important ecosystems and ancestral coastlines.	<p>All necessary field and technical processing equipment procured for continued implementation.</p> <p>All participating communities fully trained and independently operational in large-area imaging surveys, 3D model reconstruction, ecological data extraction and correlated climate impact analysis to continue long-term monitoring.</p> <p>All participating tribal staff familiar and comfortable operating the customized visualization and analytical software (<i>Viscore</i>) to continue updating and informing vulnerability assessments for presentation to tribal</p>	<p>Resighini Rancheria will have procured all necessary field and technical equipment to sustain implementation of monitoring protocols by January 2026.</p> <p>All participating TMSN communities will have procured all necessary field and technical equipment to sustain implementation of monitoring protocols by January 2026.</p> <p>Resighini Rancheria and all participating TMSN members will</p>	<p>Summary memo documenting all field and technical equipment, and its ownership.</p> <p>Summary of training activities. Summaries to include description of trainee groups (e.g., general public, a specific tribe, etc.), date(s) of training, and specific training activities that were completed.</p> <p>Summary report describing results of</p>	<p>100% of field and technical equipment owned.</p> <p>100% participating tribal staff self-report feeling comfortable conducting large-area imaging surveys.</p> <p>100% of participating tribal staff self-report feeling confident operating the analytical and visualization software (<i>Viscore</i>) &amp; how to secure</p>

**EXHIBIT A  
Scope of Work**

	leadership and adaptive management outcomes.	<p>be fully trained and comfortable implementing TIDES monitoring protocols, including data capture, analysis, interpretation and reporting by January 2026.</p> <p>Resighini Rancheria, TMSN and SIO will have entered into a formalized agreement for sustain technical support in the continued implementation of TIDES project monitoring within each communities' long-term intertidal monitoring and adaptive management plans by January 2026.</p>	<p>training self-reports from all participating tribal staff and interested community members trained in large-area imaging surveys, subsequent 3D model reconstruction, data extraction, analyses and interpretation in <i>Viscore</i>.</p> <p>Summary report describing results of training self-reports from tribal leadership actively using TIDES project products to inform adaptive management actions.</p>	<p>trouble-shooting support when needed.</p> <p>Majority of tribal leadership self-report feeling confident in the continued implementation of the TIDES monitoring project to support adaptive management planning.</p>
Task 7: Establish community-specific protocols for taking care of intertidal resources, focusing on seaweed as cultural keystone species and climate impact indicator	<p>Conduct traditional knowledge interviews to understand historical and contemporary caretaking practices, and how these have changed through time.</p> <p>From interviews, co-develop a suite of bio-cultural indicators for community and</p>	<p>Each participating community will conduct interviews between September 2024 – November 2024</p> <p>Each community will</p>	<p>Summary reports of process and findings may be provided to CEC based on each collaborator's discretion</p>	<p>Knowledge holder interviews conducted by each partnering community.</p> <p>Co-development of harvest protocols</p>

**EXHIBIT A  
Scope of Work**

	<p>resource wellbeing that can inform experimental revitalization of harvest practices through community gatherings and participatory research approaches.</p>	<p>review interview findings and commonalities to co-develop biocultural indicators for community and resource health between September 2024-November 2024</p> <p>Each community will co-develop a common practice for experimental revitalization of harvest and tending through participatory community gatherings that reflect the common priorities and practices of each place from September 2024-November 2024</p> <p>Each community will hold initial harvest gatherings from August 2024 - November 2024 with pre-and post harvest monitoring practices in place</p>		<p>and experimental restoration that are responsive to each community's research and resilience priorities</p>
<p>Task 8: Repeat experimental revitalization of</p>	<p>Replicate harvest experiments within and across season for each</p>	<p>All communities will repeat harvest</p>	<p>Summary reports of process and</p>	<p>Completed community harvest</p>

## EXHIBIT A Scope of Work

harvest practice through participatory community gatherings to better understand how harvest and caretaking practice affect recruitment of climate sensitive cultural keystone species	community priority locations.  Conduct pre-and-post harvest community experiment ecological monitoring using 3D habitat mapping approaches.  Conduct pre-and-post community harvest experiment social-ecological monitoring through disseminating community wellbeing surveys and reflections.	gathering experiments from May 2025 – August 2025.  All communities will conduct social and ecological monitoring from April 2025 - September 2025.	findings may be provided to CEC based on each collaborator's discretion	gatherings and monitoring efforts.
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Administrative Tasks	Activities	Timetable in Months	Product(s)/ Deliverable(s)	Performance indicator
Bi-monthly status updates	Email a summary every two months to the Commission Agreement Manager and schedule a follow up call with the Commission Agreement Manager to discuss project status updates.	Every two months from August 2024- March 2026	E-mail progress summaries	Progress summaries received by CEC in timely manner
Quarterly invoicing	TMSN will invoice CEC on a quarterly basis to allow for prompt reimbursement of projects costs. The template invoice spreadsheet (provided by the Commission Agreement Manager) will be used for all invoices.	Quarterly from August 2024 – March 2026	Invoices provided	Invoices received by CEC in timely manner
Final Report	A final project summary report will be submitted to CEC. We plan to submit a draft final report to the Commission Agreement Manager at least two months prior to the end of the agreement end date to allow sufficient	Drafts and final report submitted from November 2025 – March 2026	Final project summary report.	Drafts and final reports submitted to CEC in a timely manner.

**EXHIBIT A**  
**Scope of Work**

	time for revisions if needed. The final report will be submitted at least one month prior to the agreement end date.			
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