

U.S. Army Corps of Engineers 2009 Handshake Program Application

Eligibility checklist to qualify per ER 1130-2-500, Chapter 12.

1. Is the seed money going to be spent at Corps facilities and resources that are being maintained by the Corps at 100% expense on the day the agreement is signed? ☒ **Yes** ☐ **No**
2. Is the agreement with a non-federal public or private entity(ies)? ☒ **Yes** ☐ **No**
3. Is the proposed activity within current authorities and contained in the annual or 5-year work plan in the approved OMP? ☒ **Yes** ☐ **No**
4. If no, when will the OMP be updated and approved? (example: Feb 09)

If the answer to either question 1 or 2 is No, the proposal cannot be authorized under the Corps Challenge Partnership program. If the answer to question 3 is No, and the date provided in the answer to question 4 would come after the commencement of the proposed challenge partnership, the activity cannot be considered under this program. Reference application instructions for further clarification.

Highlight a box and press F1 if you need online help to complete any item.

Corps Lake/Project Name: **Lake Mendocino/Coyote Dam**

Handshake Proposal Title: **Steelhead Trout Interpretive Murals**

Corps POC Name: **Denise Bausch**

Street Address: 1160 Lake Mendocino Drive

City, state and zip code: **Ukiah, CA 95482**

Telephone: **(707) 467 - 4230** ext.

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E-Mail:

Denise.E.Bausch@usace.army.mil

Partner Organization 1: Ukiah Rod and Gun Club

Partner Authorized Official: Pat Ford

Phone: (707) 463 - 0730 ext.

Partner Organization 2: Artist

Partner Authorized Official: Judy Geer

Phone: (707) 485 - 1577 ext.

Partner Organization 3:

Partner Authorized Official:

Phone: () - ext.

Categorize Use: (may check more than one)

- ☒ Interpretation/Environmental Education
- ☐ Water Safety
- ☐ Trails
- ☒ Natural Resources Management

- ☐ Special Event
- ☐ Recreation Facilities
- ☐ Visitor Center
- ☐ Accessibility Other/ Miscellaneous

Handshake Funding Amount Requested (\$10,000 Limit): \$10000

Description of the Handshake partnership and the project to be accomplished:

Coyote Dam/Lake Mendocino is approximately 120 miles north of San Francisco in Mendocino County, CA. The Lake is located approximately 3 miles from Ukiah, California with approximately 30,000 people in and around the city and hosted 3,733,015 visitor hours in FY07. Recreational facilities were constructed by the US Army Corps of Engineers with assistance from Mendocino County and the State of California.

The Coyote Dam Steelhead Egg Collection Facility was completed in 1992 to mitigate the loss of spawning grounds beyond Coyote Valley Dam. An estimated 100,000 Steelhead eggs are collected and fertilized each year, then sent to Warm Springs Dam at Lake Sonoma to be hatched and raised to the smolt stage. The smolt are returned to Coyote Dam when they are a year old to acclimate in the raceways before being released into the wild. The goal of the facility is to release a minimum of 40,000 pounds of smolt each year. See page 6 for a general map and pictures of the hatchery and egg collection facilities.

In early 2002, the Ukiah Rod and Gun Club opened the Bill Townsend Fish Hatchery to increase the numbers of smolts and yearlings released into the Russian River from Coyote Dam each year. This was done to improve the viability of the Steelhead Trout population in local rivers and streams. With the support of the US Army Corps of Engineers, the Ukiah Rod and Gun Club had an environmental education mural painted on the southern wall of the hatchery building. This mural depicts the endangered Steelhead Trout in their spawning grounds (see page 7 for a photo of the current mural).

This partnership project will complete the interpretive story of the Steelhead's life cycle on the remaining three walls of the Fish Hatchery. These will be large murals measuring as follows: front entrance wall-12 ft high by 62 ft wide, each end wall-12 ft high by 17 ft long. Sample artwork for the front entrance wall is included on page 7.

In addition, the story continues on the long crowding channel wall at the adjacent Coyote Dam Egg Collection Facility. Measuring 3 ft high by 92 ft long, this mural will interpret the migration of the spawning Steelhead from the ocean to the Egg Collection Facility at Lake Mendocino. This terrestrial story will illustrate the predators, animals, and plants that rely on the Steelhead to maintain a healthy environment and food supply. The entire 92 foot mural begins at the top of the fish ladder depicting a view of the ocean, estuary and travels up the Russian River through oak woodland, grasslands, and other habitats. Finally, it shows the stages of the steelhead life cycle including the human-assisted spawning stage. Sample artwork for the crowding channel is included on page 7.

It is believed that this project will be completed in one year but inclement weather conditions may make it necessary to continue the project into the following year.

1. Sustainability: The estimated life span of these improvements is 7-10 years. After this time, the color will begin to fade and will need to be retouched. These murals are also in a protected area of the project preventing damage from un-supervised visitation and vandalism.

2. Partnership Value: This project includes two partners. The Ukiah Rod and Gun Club has been a partner in many projects at Lake Mendocino, including the construction and operation of the Bill Townsend Fish Hatchery. They were the driving force behind the original mural painted in

2006, and are committed to the completion of the remaining murals. They have agreed to \$7,000 of in-kind donations and volunteer services to complete this project.

Our other partner is the Artist, Judy Geer. She is donating \$20,000 of her \$30,000 salary to complete this mural project. Mrs. Geer is a very talented local artist who painted the original mural and has been very accommodating in reaching a price that was within the Ukiah Rod and Gun Club and the US Army Corps of Engineers budgets.

3. Environmental Stewardship Value: These murals provide a larger-than-life look at Steelhead Trout. They will interpret their migration, life cycle and the natural and human environments that impact their survival. The murals will be impressive- creating a catalyst to interpret the importance of Steelhead not only to our environment but to our economy. The Corps is working with partners and agencies to mitigate for lost Steelhead habitat in the Russian River Watershed.

4. Communication and Education Value: Ranger led tours of the Egg Collection Facility and Fish Hatchery began in 2004. Since then, approximately 3,000 students have visited the facilities. Visiting teachers and Rangers have utilized the existing mural to educate students about Steelhead anatomy, habitat, and life cycle stages. This dynamic backdrop enhances interpretation of the Corps' efforts to maintain and improve Steelhead survival in the watershed. Additional murals allows teachers and rangers to expand their message not only to visiting school groups but to the general public as well. Current staffing levels do not allow for direct interpretive programming for every visitor. These murals will prompt visitors to learn visually about various aspects of the Steelhead Trout. Educational, post-visit materials will be developed to allow follow-up learning in the classroom. All materials will be in accordance with CA State Science Standards for curriculum.

5. Recreational Benefit: The Coyote Dam Egg Collection Facility and the Bill Townsend Fish Hatchery are places where visitors can interact very closely with the Steelhead Trout. The egg collection facility is an outdoor operation, allowing visitors to peer over the side of the crowding channel and watch fish come up the fish ladder and enter the egg collection area. Hatchery employees allow visitors to get so close to the Steelhead Trout that they are often splashed with water as the fish are handled and placed in one of the sorting tanks. This is a fun and dynamic learning experience the students and adults never forget!

The Bill Townsend Fish Hatchery also allows visitors the chance to see fertilized eggs progress through their life cycle in very close detail. California Department of Fish and Game and Ukiah Rod and Gun Club members happily answer questions and often allow visitors to help in the spawning process by milking the males. Most fish hatchery operations are observed from a distance- this facility is small and easily accomodates hands-on learning experiences.

These interpretive murals will be an integral part of the overall experience. The boring, gray concrete walls of the hatchery will be transformed into colorful and educational outdoor exhibits. The murals will allow people to learn about the Steelhead in a non-intrusive manner with the ability to be more interactive for those visitors looking for more information.

6. Innovativeness of the partnership or the end result: The US Army Corps of Engineers manages only a handful of fish hatcheries and egg collection facilities nationwide. This partnership brings together a local non-profit dedicated to fish habitat and conservation, and an artist, educated within the local community, who works with other groups and individuals to design and paint

public murals throughout Mendocino County. The goal is to complete interpretive and educational murals dedicated to improving the general knowledge about and appreciation of Steelhead Trout. Further- working with two local partners extends the Corps' outreach and approachability throughout the community. Lake Mendocino is known for it's recreation and water supply - the mural project will bring new color, life and creativity to interpreting the role of the US Army Corps of Engineers at Lake Mendocino, as well as the survival of the endangered Steelhead Trout.

The Corps will:

The Corps will provide labor for coordination of all partner efforts. The Corps will also coordinate any interpretive components, including web page information, and related educational materials. The Handshake funds will be used to pay the artist, Judy Geer, for designing and painting the murals.

The Partner(s) will:

The Ukiah Rod and Gun Club will provide volunteer services to pressure wash, prime and seal the concrete walls of the Bill Townsend Fish Hatchery and the Coyote Dam Egg Collection Facility Crowding Channel in preparation for the murals.

The Artist, Judy Geer, will design and paint the murals on the remaining three walls of the Fish Hatchery and the Crowding Channel from the fence to the stairs.

Challenge Partnership Financial Work Sheet

Corps Project Name: Lake Mendocino/Coyote Dam

Work Project Title: Steelhead Education Mural

POC Name: Denise Bausch

Address: 1160 Lake Mendocino Drive City: Ukiah State: CA Zip Code: 95482

Telephone: 7074674230

Location on Project: Coyote Dam Egg Collection Facility And The Bill Townsend Fish Hatchery

Partner Organization 1: Ukiah Rod and Gun Club

POC Name: Pat Ford

Address: P.O. Box 1309 City: Ukiah State: CA Zip Code: 95482

Telephone: 7074630730

Partner Organization 2: Artist

POC Name: Judy Geer

Address: 1981 Mountain View Lane City: Redwood Valley State: CA Zip Code: 95470

Telephone: 7074851577

Partner Organization 3:

POC Name:

Address: City: State: Zip Code:

Telephone:

Proposed start date of work: Nov-09

Simple description of work to be accomplished through the partnership: Four environmental education murals will be completed at the Bill Townsend Fish Hatchery and the Coyote Dam Egg Collection Facility. These murals will focus on the lifecycle of the Steelhead Trout, it's environment and the hazards they face on a daily basis.

Double click on spreadsheet to access data entry fields:

	Local Corps Office	Handshake Funds	Partner 1	Partner 2	Partner 3	Total
Salaries	\$12,000	N/A	\$0	\$20,000	\$0	\$32,000
Travel	\$1,000	N/A	\$1,000	\$1,000	\$0	\$3,000
Materials and Supplies	\$1,000	\$0	\$1,000	\$0	\$0	\$2,000
Equipment Use	\$0	\$0	\$1,000	\$0	\$0	\$1,000
Funds Contributed	N/A	N/A	\$0	\$0	\$0	\$0
Personal Property	N/A	N/A	\$0	\$0	\$0	\$0
Volunteer Efforts	N/A	N/A	\$2,000	\$0	\$0	\$2,000
In-Kind Services	N/A	N/A	\$2,000	\$0	\$0	\$2,000
Other (explain below)	\$0	\$10,000	\$0	\$0	\$0	\$10,000
Total	\$14,000	\$10,000	\$7,000	\$21,000	\$0	\$52,000
Share of Total Cost	26.9%	19.2%	13.5%	40.4%	0.0%	100%

Explanations: The Handshake funds will be used to pay the artist Judy Geer for designing and painting the murals.



