ACCOMPLISHMENT/PROGRESS REPORT TEMPLATE

APPLICABLE TO CALIFORNIA FISH PASSAGE FORUM (CFPF) FUNDED PROJECTS, ADMINISTERED BY USFWS

I. Project/Program Title: Sharber-Peckham Fish Passage Project

II. USFWS Grant Number: F14AC00813

III. Quarterly dates covered by this report (check appropriate quarter(s)):

Jan–March _____ April–June _____ July–September _____ October–December __X___

IV. Date report submitted: January 23rd, 2017

V. Briefly summarize (2-3 sentences) overall progress/accomplishments during the applicable quarter(s):

Between October 1- December 31, 2016, the project moved into the full construction phase with Environmental Restoration Services (ERS), Council and other constractors working to installing a water detour and spittler log crossing detour, road fill excavation, bedding placement, structural assembly, detour removal, RSP placement, and implementation of best management practices. However, an extremely wet October triggered by the outer bands of Super Typhoon Songda and Hurricane Seymore hitting the area, followed by slightly wetter than normal November and December rainfalls delayed work and required extraordinary site erosion control protection measures and expansion of de-water efforts.

VI. Task-specific/deliverable updates (for each task in the cooperative agreement, provide a brief update on progress; provide brief update on significant work toward, or completion of any deliverables from the cooperative agreement)**:**

Licensed Engineer - Final design plans and site inspection (hours) **NOAA Engineer to perform hydrologic modelling (Cross Sections, HecRas, Data Processing)** Council registered engineer Art Reeve conducted periodic inspections. All engineer time was allocated to other grants.
Fisheries Biologist - Ross Taylor & Assoc. for Fish relocation (hours)- This task was previously completed.
Water Tank Installation (hours)- This task was previously completed.
Electrical/Plumbing Contractor- The water cisterns were able to be left in place eliminating the need for an electrical/plumbing contractor for removal. However wiring, conduit and pipe outside of the cisterns was removed. Phone lines were relocated. Future work may be limited to only having to reinstall electrical, phone and water lines outside of the cisterns.
Installation of water diversion-labor and equipment (hours)- ERS and Council staff managed the water diversions. On October 15th "Super Typhoon" Songda's outer bands of weather hit the region resulting in 9.5" of rain at the Hoopa CA weather station between the 15th and 26th. On October 27th Hurricane Seymore pushed north from the Gulf of California resulting in ~5" of rain in Hoopa CA between October 27th and November 5th. The total precipitation for October was ~355% of the average. These storms delayed operations and extended water diversion pumping and complexity. The contractor rented water pumps and contractor and Council acquired additional pipe/hose to pump the rising stream flows around the worksite.
Temporary Bridge Installation (hours)- The temporary Spittler bridge crossing was installed and removed during the period.
Erosion Control Implementation and Maintenance (linear foot)- The storms delayed operations, increased application of best management practices and increased rock and drainage management costs. Supplemental plastic tarps, straw waddles, straw mulch and rock mulch were purchased in response to the

exceptional weather events. Temporary road drainage was installed on the detour road and supplemental base was added to allow homeowners to travel during the peak of the storms.

Remove existing culvert-roadway excavation (cubic yard) – The contractors excavated the channel from October 15th to November 1st. The slow excavation rate was due to weather delays and lack of sufficient equipment and operators. Approximately 850 yd3 of roadway and channel fill was removed during the reporting period.

Disposal of old culvert (transport and disposal) (each) - The old culvert was removed and disposed of during the reporting period.

Spoils Management (front end loader/dump truck/erosion BMPs) (cubic yard) - Approximately 850yd3 of excavation spoils were moved. The contractor spread ~60yd of spoils on the ground of the Christian parcel rather than in a stockpile. The spread materials could not be adequately protected from saturation and had to be left in-situ until they can dry out and be managed. An additional ~240 yd remains in a windrow and as part of a temporary detour road. These spoils will be disposed of when they are dry and manageable.

Construction of culvert (channel excavation to embed culvert, includes 1 excavator and 2 dump trucks) (hours) The channel was excavated and bedding materials placed and compacted between October 15th and November 1st. All work was completed in the reporting period.

Construction of culvert (2 pieces of equipment to place plates in channel-(ex. Excavator and backhoe) (hours) – Work was completed utilizing an excavator and backhoe. All work was completed in the reporting period.

Construction of culvert (labor to bolt pieces together) (hours) - The CMP structure was assembled between November 3rd and the 15th. The contractor lacked sufficient experienced workers and torque equipment to assemble the CMP structure on his own. The Council retained independent consultants to assist contractor in completion of the bolting of the structure. The Council engineer inspected torque and assembly

Structural backfill and compaction around new culvert (cubic yards) – The contractor installed ~100 yd of structural backfill between November 10th and November 19th. Structural backfill was placed in lifts as the structure itself was assembled.

Non-structural backfill and compaction around new culvert (cubic yards) - The contractor installed ~450 tons of non-structural backfill between ~November 10th and November 20th. The combination of extreme weather, the need to open the road, and to remove the detour road resulted in suboptimal compaction levels. Some settling of materials occurred in December creating minor road sagging that was repaired when dry weather conditions permitted. Minor additional settling is anticipated this winter, but no long term impacts are anticipated.

Finish Roadway: Road Base (tons) - Road finish work was partially completed. Approximately 150 tons of 2"-4" road subbase was placed to allow vehicles to travel on the road, but the final road base (1" minus or equivalent) will not be placed until next year after minor settling is repaired.

Bank Stabilization Installation (excavator) (hours) - All bank stabilization RSP was placed with the excavator and the backhoe. Some bank stabilization work remains to be completed but will be done next summer.

Bank Stabilization Installation (labor) (hours) - Council and contractor staff completed rock slope protection placement on the inlet and outlet of crossing as well as well as mulch, seed, and drainage upgrades.

Bank Stabilization Materials (cubic yards) - ~70 yd3 of RSP rock was placed, 30 bales of certified weed free straw was utilized to mulch banks, and ~75 lbs on native grass seed placed as part of stabilization work.

Simulated streambed material (cubic yard) - No work in period.

Installation of simulated streambed (labor) (hours) - No work in period.

Installation of simulated streambed (large excavator) (hours) - No work in period.

Installation of simulated streambed (small excavator) (hours) - No work in period.

Construction/Design Contingency- Construction contingency and design contingency work was related to expanding de-water systems in response to record storm events, adjusting techniques due to late season conditions and adapting due to disrupted deliveries of goods and supplies due to highway and road closures.

Post-Project removal of water diversion-labor and equipment (hours) - The contractor and Council staff removed the water diversion structures, piping, pumps and filters. Final re-wiring and plumbing connections
Installation of post-project erosion control (labor) (hours) - All flats, disturbed areas and banks were seeded and mulched.
USFS Post Construction Monitoring (Coordinator) - The project coordinator and/or director conducted numerous visual inspections during major storm events.
USFS Post Construction Monitoring (Technician) - Two spawning surveys were completed by the US Forest Service with 4 coho salmon redds documented.

Any significant developments beyond those reported for specific tasks/deliverables:

VII. Any delays/issues that are impacting or may impact progress of the project:
On October 15th "Super Typhoon" Songda's outer bands of weather hit the region resulting in 9.5" of rain at the Hoopa CA weather station between the 15th and 26th. On October 27th Hurricane Seymore pushed north from the Gulf of California resulting in ~5" of rain in Hoopa CA between October 27th and November 5th. The total precipitation for October was ~355% of the average. These storms delayed operations, increased application of best management practices, increased complexity and extended water diversion pumping, and increased road rock and drainage management costs.

An unexpected delay in the project was the repaving of Highway 299, the Big French Landslide repair project and ultimately the activation of the Big French landslide forcing the closure of Highway 299. The pre-closure highway delays added ~2 hours of travel time every day of the project for the Council until the Big French slide completely shut down Highway 299. Severe weather then shutdown the single lane forest road detours around the Big French slide. Finally snow, road construction and more slides periodically shut down Highway 36, the only other route to reach the site. At times it was physically impossible to reach the work area and at other times it took 6-8 hours to make it from Weaverville to Salyer (compared to the normal 1 hour trip). This in turn resulted in far higher number of hours needed to accomplish all work.

VIII. Summary of invoices/charges to the agreement (include amount and date of any invoices submitted for
A summary of charges incurred during the quarter is attached

Anticipated work in next quarter:.

- Monitor fish migration and spawning
- Monitor erosion control and revegetation
- Monitor Thalweg and cross section survey

IX. Additional information (include pictures, documents, presentations, or similar outputs that were developed during the quarter related to the project and a summary of any outreach activities or significant meetings):

Submit reports to Donnie Ratcliff, U.S. Fish and Wildlife Service (donald_ratcliff@fws.gov) and Lisa DeBruyckere, Coordinator, California Fish Passage Forum (lisad@createstrat.com)