EATSM Release Summary Form

Primary Investigator:

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Study objective(s): Estimate survival of acoustically tagged Feather River State Hatchery (FRSH) spring-run Chinook salmon juveniles to the USFWS trawl sampling stations at Sacramento and Chipps Island. These estimates will be used in the CWT-Acoustic Tag paired release hybrid design to determine trawl capture efficiency and abundance estimates for other runs of salmon. Tag life tests on a 5% sample of tags.

State hypothesis (if applicable):

Study Type:	Study Timing:
☒ Reach-specific survival estimate	Study Duration (years): 3 Years
☐ Route selection	Release Dates (range; if applicable): April of 2019, and 2020
☐ Habitat use/preference	
☐ Entrainment/fish passage evaluation	**Study site(s):** (If applicable)
☐ Technology testing	Collection site(s): FRSH
☒ Other: Methodology development	Release location(s): Feather River: Gridley and Boyds

Fish/Species of Interest

Species-race: spring-run Chinook salmon Length (range): 87-100mm FL Life stage: Juvenile, sub-yearling	Source/quantity: FRSH 600 fish Status of fish request (if applicable): pending

Tagging Information (if applicable)

Transmitter Information Type/model: JSATS ATS SS300 Weight (gm): 0.30 PRI/life of tag: 5 Second PRI. JSATS 30 day life.	**Implant procedure** ☒ Surgical ☐ Gastric ☐ Injected Has staff completed a standard tagging training? (**Y/N**). **If yes, when?** Yes. 2013, 2015.

Telemetry Receivers:

- Non-Core Receivers Deployed/Duration: November to July each year
- Identify mission critical Core receiver locations (general description): SacTrawl – dual array, 2 lines of 3 receivers, Chipps Island – dual array, 2 lines of 5 receivers
- Desired frequency of download (If Real-time data is required, indicate management directive): every 3 months

Environmental/operating conditions (if applicable)

- Relevant discharge indices: varying flow
- Temperature: 8-20 deg C
- TDG:
- Treatment(s): year and release location

Unique study characteristics: Use of acoustic telemetry survival estimates to improve abundance estimates derived from another sampling methods.