

**Sacramento River Temperature Task Group (SRTTG) Meeting**  
**Thursday, July 26, 2018 | 1:00 pm – 3:00 pm**

**MEETING SUMMARY**

**Participants**

|                                     |                                |
|-------------------------------------|--------------------------------|
| Craig Anderson, USFWS               | Kenneth Kundargi, CDFW         |
| Matt Brown, USFWS                   | Duane Linander, CDFW           |
| Charles Chamberlain, USFWS          | Seth Naman, NMFS               |
| Kyle De Julio, Yurok Tribe          | Michael Prowatzke, WAPA        |
| Vadim Demchuk, SWRCB                | Ryan Revnak, CDFW              |
| Brandon Demuth, USFWS               | Diane Riddle, SWRCB            |
| Randi Field, Reclamation            | Alessia Siclari Melchor, SWRCB |
| Robert Franklin, Hoopa Valley Tribe | Mike Wright, Reclamation       |
| Sarah Gallagher, NMFS               | Garwin Yip, NMFS               |
| John Hannon, Reclamation            |                                |
| Liz Kiteck, Reclamation             | Chris (?), Yurok Tribe         |

**Key Discussion Topics with Summary of Outcomes and Agreements**

***Meeting Purpose and Overview***

Reclamation reiterated the meeting purpose: members of the Sacramento River Temperature Task Group are provided status updates on Sacramento River seasonal temperature targets and anticipated performance.

***Status Update on Operations and Emergency Fire Activity***

Randi Field from Reclamation provided an operations update. As a result of the Carr Fire, several CVP facilities have been affected and operations have been modified. Shasta operations were reported as normal and temperatures are blended through the Shasta TCD. Keswick operations were impacted due to fire related power and transmission unit “trips”. Variations in Sacramento River flow were the result of moving from the power generation units to spillway gates and back; USGS reported flow dropping briefly to 9,000 cfs. Further flow variations are expected at Keswick Dam. Whiskeytown Dam appears to be where there are numerous fire “hot-spots”. Clear Creek release was transferred from power generation to the outlets when City of Redding lost generation. The flow and temperature blend are expected to remain normal at Clear Creek. Trinity Dam is isolated from the power network and serves as a “power island” to the Trinity area for safety purposes. Reclamation is “following the power demand” at Trinity, but as a result of both the Spring Creek and Carr Power Plants out of service, increased releases are necessary to manage Lewiston Lake elevations. Emergency releases to the Trinity River at Lewiston Dam were made this morning from 450 cfs to 750 cfs. The Trinity network is expected to return this afternoon and flows are planned to be reduced to normal flows (450 cfs) as mobile generators were mobilized to Spring Creek and Carr. Reclamation is concerned about temperatures on the Trinity River with increased residence time at Lewiston Dam. Further information will be distributed as it becomes available.

### ***Fishery Update***

Ryan Revnak from CDFW provided an update on their aerial redd surveys. Yesterday, new winter run redds increased by 22. The peak of the season was July 15 where 43 new redds were reported. The farthest downstream redds in the system are found to Bonnyview Bridge near the Clear Creek gauge. At present, there are 197 observed redds.

Garwin Yip from NMFS provided the following updates to the Livingston Stone National Fish Hatchery as of July 19<sup>th</sup> (sent via e-mail, originally from USFWS):

“Total Broodstock Collected at LSNFH

|                 | Female | Male       |
|-----------------|--------|------------|
| Natural Origin  | 10     | 16         |
| Hatchery Origin | 50     | 104        |
| Total           | 60     | 120        |
| Jacks/Jills     | 0      | 19         |
|                 |        |            |
| On Hand         | 9      | 33         |
| Spawned         | 40     | 74/56 died |
| Prespawn        | 11     | 31         |
| Still Needed    | 0      | 0          |
| Season Goal     | 60     | 120        |

We have collected all the fish we needed for the season, from Keswick Dam Trap.

We have cryo preserved the milt from 33 males.

We have counted the eyed eggs from 14 females, 68,221 total eyed out of 70,789 total eggs = 96.37% eyed. We also have 2 females with soft shell and did not count those eggs, we will count the fry at swim-up.

We did have 1 females swim-up counted, 3,963 juveniles. Which is 93.51% survival from total eggs.”

### ***Hydrology and Operations Update***

*See Meeting Agenda and Handouts for reference materials.*

Randi Field from Reclamation reviewed system operations, temperatures, trends, Lake Shasta isothermal baths, Lake Shasta cold water pool volume, and the Shasta Temperature Control Device (TCD) configuration. Information for this meeting was abbreviated due to the fire activity. Past and expected future operations and forecasted conditions were also discussed. Releases from Keswick Dam are currently managed to 13,000 cfs. Seasonal release patterns from Keswick Dam are consistent with previous month expectations.

### ***Temperature Management***

*See Meeting Agenda and Handouts for reference materials.*

Active temperature management is continuing; Reclamation is managing to 53.5°F daily average temperature (DAT) at the CCR gage and 56°F DAT at Balls Ferry. Currently, the upper, middle gates, and pressure relief gate (PRG) are open on the TCD. Reclamation is continuing to decrease the usage of the upper gates and moving towards blending the coldest water with the PRG gates. The TCD configuration is 2 upper gates open, 5 middle gates open, and 1 PRG open.

Temperature operations have been running with approximately a monthly mean daily average around 54.6°F in July at Balls Ferry. The approximate monthly mean daily average at the Sacramento River above Clear Creek (CCR) is 53°F DAT in July.

The air temperature forecast for the Redding area is expected to be hot with triple digit air temperatures expected in the coming days. If fires persist in the area, smoke and haze will help keep the water temperatures from increasing as much as a clear day.

The isothermobath cold water pool observations are expected. Nothing is currently a cause of concern with the isothermobath. The cold water pool volume < 48°F degrees has consistently been less than average since the spring, but now appears to be approaching the average volume. This could be as a result of less intense heating in the month of June.

### ***Temperature Studies***

Reclamation is still focusing on the 90% runoff exceedance forecast as the 50% runoff exceedance forecast is not realistic given current inflow trends. Model runs from July 18<sup>th</sup> show target temperatures at CCR and BSF as achievable, however end of September cold-water-pool volume information used to supplement known limitations of the temperature model in the fall period suggest some moderate caution. The cold-water-pool volume in the latest model runs suggest confidence in the fall temperature performance. Simulated side gate openings (first and full) indicate early September and late September, respectively. Additional model runs will be shared with the group via email.

### ***Additional Items***

Sarah Gallagher from NMFS was interested in Clear Creek operations and was curious if reducing the draw from the lower guard gate would save the cold-water-pool at Whiskeytown because historically it appears that fall temperatures are challenging to meet. Randi commented that Whiskeytown does not exactly behave like Shasta because the volume of water moving through Whiskeytown is large and the temperature curtains are the driving factors protecting the cold-water-pool resource.

### ***Next Meeting***

The next regularly scheduled meeting is August 23, 2018 from 1:00 pm to 3:00 pm, in Sacramento at the Joint Operations Center.