

Hopper Ranch

STATE WATER RESOURCES CONTROL BOARD

2011 NOV 21 AM 10:30

Russian River Frost Protection Water Demand Management Plan

DIV OF WATER RIGHTS SACRAMENTO
Submitted By:

John H. Thomas -

Date: 11-14-11

Inventory of frost diversion system(s)

- (A) Name of the diverter - John H. Thomas
- (B-1) Source of water used - Main stem Russian River
- (B-2) Location of diversion - 39.15233, -123.18293 - Hopper Ranch
- (C) Diversion system description capacity - 50 HP electric Pump
- (D-1) Acres frost protected with irrigation - 2 1/2 (Excess water Returned to River at Point of Diversion)
- (D-2) Acres frost protected by other means 0
- (E-1) Rate of diversion 125 g.p.m
- (E-2) Hours of operation (ea. frost event) 6 - 10
- (E-3) Volume diverted (ea. frost event) .14 a.f. (6HR) to .23 a.f. (10HR)

Stream stage monitoring program

- (A-1) Number of gages 2
- (A-2) Gage type USGS
- (A-3) Location of stream gages USGS 11462080 - USGS 11462500
- (B) Stage that should be maintained at each gage to prevent stranding mortality
whatever the minimum Flow required By D1610 at time of diversion
- (C) Provisions for gage installation, calibration and maintenance
Gages already exist and are calibrated and maintained By the USGS
- (D) Monitoring and recording intervals (not to exceed 15 min.)

15 minutes

Risk assessment

Guidelines: Based on the inventory and stream stage information described above, and information regarding the presence of habitat for salmonids, the governing body shall conduct a risk assessment that evaluates the potential for frost diversions to cause stranding mortality. The risk assessment shall be conducted in consultation with NMFS and DFG. The governing body is authorized to include its own expert scientists and engineers in the consultation, and request board staff to participate, when desired. The risk assessment shall be evaluated and updated annually.

My Point of diversion is located on mainstem of Russian River, which Flows are regulated, and my diversion is equipped with a N.M.F.S. and C.D.F.G. approved Fish screen, so there is no risk associated with my operation. I will only direct divert when the Flow in the River is in compliance with Bypass Flow terms of my C.D.F.G. 1600 (see attached) and Table 3 of the 2008 N.M.F.S. Final BO (see attached)

Corrective Actions

Guidelines: If the governing body determines that diversions for purposes of frost protection have the potential to cause stranding mortality, the governing body shall notify the diverter(s) of the potential risk. The governing body, in consultation with the diverters, shall develop a corrective action plan that will prevent stranding mortality. Corrective actions may include alternative methods for frost protection, best management practices, better coordination of diversions, construction of offstream storage facilities, real-time stream gage and diversion monitoring, or other alternative methods of diversion. Corrective actions also may include revisions to the number, location and type of stream stage monitoring gages, or to the stream stages considered necessary to prevent stranding mortality. In developing the corrective action plan, the governing body shall consider the relative water right priorities of the diverters and any time delay between groundwater diversions and a reduction in stream stage. The corrective action plan shall include a schedule of implementation. To the extent feasible, the corrective action plan shall include interim corrective actions if long-term corrective actions are anticipated to take over three years to fully implement. The diverters shall implement corrective actions in accordance with the corrective action plan, or cease diverting water for frost protection.

If River Flow get Below Bypass Flows as described in my 1600 Permit or Drop Faster than described in Table 3 of 2008 N.M.F.S. Final BO, I will stop diverting.