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**Subject:** 3 Day Average Maximum Stanislaus River Temperature  
**Date:** Wednesday, October 28, 2009 9:51:00 AM

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Bruce,

This e-mail serves as formal notification, as required by the 2009 NMFS BiOp, that the Exception criteria under Action III.1.2 (Stanislaus River temperature objective at Orange Blossom Bridge) was triggered on 10/23/09 on a three-day average daily maximum temperature (this assumes that the temperature objective began on 10/15/09 and allows for a seven-day adjustment period). A table of maximum daily temperatures and daily average temperatures at Orange Blossom Bridge is shown below. (As discussed via conference call between Reclamation and NMFS staff on July 13, 2009 requesting direction on BiOp RPA procedural actions.)

Water temperatures on the Stanislaus River continue to be elevated above the temperature target of 56 °F at Orange Blossom Bridge. In the last five days, the seven-day average daily maximum temperatures ranged from 56.1 °F to 56.5 °F. The average monthly mean temperature (October 1 – October 26) is 56.4 °F.

Releases from Goodwin Dam were increased beginning October 15, 2009 from 200 cfs to a maximum of 1500 cfs on October 21, 2009 as specified in the Stanislaus River Minimum Fish Flow Schedule provided by NMFS. Temperatures are now trending lower as compared to before the increase in release, however, it is still expected the three-day running average daily maximum temperature criteria will not reach the temperature objective until the weather cools. Reclamation expects the seven-day average daily maximum temperature to exceed the objective in the short term despite the increase in Goodwin releases. We believe the elevated maximum temperatures is a temporary condition and when cooler weather sets in, the maximum temperatures are expected to remain below the temperature objective at Orange Blossom Bridge.

**Tabulated Temperature Data: Orange Blossom  
Bridge, Stanislaus River**

<b>Date</b>	<b>Daily Maximum Temperature (°F)</b>	<b>Daily Mean Temperature (°F)</b>
10/1/2009	57.9	55.8

10/2/2009	58.8	56.5
10/3/2009	58.5	56.8
10/4/2009	57.8	56.6
10/5/2009	57.3	55.8
10/6/2009	57.6	55.9
10/7/2009	58.1	56.4
10/8/2009	58.3	56.8
10/9/2009	58.6	57.1
10/10/2009	58.8	57.2
10/11/2009	58.4	57.2
10/12/2009	57.7	56.9
10/13/2009	57.4	56.7
10/14/2009	59.8	58.2
10/15/2009	61.3	59.6
10/16/2009	59.3	58.3
10/17/2009	58.5	56.9
10/18/2009	57.2	56.1
10/19/2009	55.6	55
10/20/2009	55.9	54.9
10/21/2009	56	55.1
10/22/2009	56.2	55.2
10/23/2009	56.3	55.4
10/24/2009	56.7	55.6
10/25/2009	56.3	55.5
10/26/2009	56.4	55.6

(Data source: CDEC, 10/27/2009)

Thank you,  
Randi Field

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