

RECLAMATION

Managing Water in the West

TR-2012-03

Travel to Tracy Fish Facility to Install a Transvac Fish Pump

Dates of Travel: February 23-24, 2012



**U.S. Department of the Interior
Bureau of Reclamation
Technical Service Center
Hydraulic Investigations and Laboratory Services Group
Denver, Colorado**

BUREAU OF RECLAMATION
Technical Service Center
Denver, Colorado

TRAVEL REPORT

Code: 86-68460 Date: March 19, 2012
To: Manager, Hydraulic Investigations and Laboratory Services Group
From: Bryan Heiner and Jimmy Hastings
Subject: Travel to Tracy Fish Collection Facility to install a Transvac Fish Pump

Travel period: 23 Feb, 2012 to 24 Feb, 2012

2. Places or offices visited: Tracy Fish Collection Facility, Byron CA.
3. Purpose(s) of trip: The primary task for this trip was to install a Transvac Fish pump at the Tracy Fish Collection Facility (TFCF) and cycle the pump to ensure that it is working correctly.
4. Synopsis of trip: Bryan and Jimmy flew to Sacramento, CA the morning of 02/23, and then traveled by rental car to the TFCF. Their return flight from Sacramento was on the evening of 02/24.

After arriving at the TFCF, Bryan and Jimmy met with Joel Imai (TO-460), Thomas Walden (TO-453), and Thomas Moser (TO-454) to discuss the installation of the Transvac Pump. The pump and pre-fabricated channel supports for suspending the pump in the holding tank (Figure 1) were shipped to the TFCF by freight.

Bryan had planned on installing the pump in holding tank #3, however after a short discussion it was determined that installing the pump in holding tank #4 would be more appropriate to avoid electrical and communication lines near tank #3. After the location for the install was located it was determined that Thomas Walden would re-wire the pump and ensure the rotation was correct before it was installed in the holding tank. No action was necessary from Thomas Moser or Joel Imai during the installation.

Late Thursday (02/23) after several attempts to install the pump were made, it was determined that there was not enough room between the cross beam and the holding tank screen to install the pump with the pre-fabricated steel supports.

Early on 02/24 Thomas Walden re-wired the Transvac pump and made sure the rotation of the pump was correct. The pump is temporarily plugged into a 480 volt weld plug located to the west of the holding tank building attached to the secondary flow meter display cabinet. Bryan and Jimmy traveled by TFCF truck with the pre-fabricated supports to J. Milano Co. Inc. in

Travelers: Bryan Heiner and Jimmy Hastings

Stockton CA to obtain new support pieces that allowed the pump to be installed above the cross beam in holding tank #4 (Figure 2). Once installed Bryan and Jimmy temporarily fastened the pump to the holding tank I-beams using large C-clamps (Figure 3).

Minor adjustments were also made to existing water and air supply lines that are needed when the pump is in operation. Adjustments that were made will not affect the current operations of the TFCF. Once installed the pump was cycled several times. Three videos of the pump in operation are available online at http://www.usbr.gov/pmts/hydraulics_lab/bheiner/index.cfm.

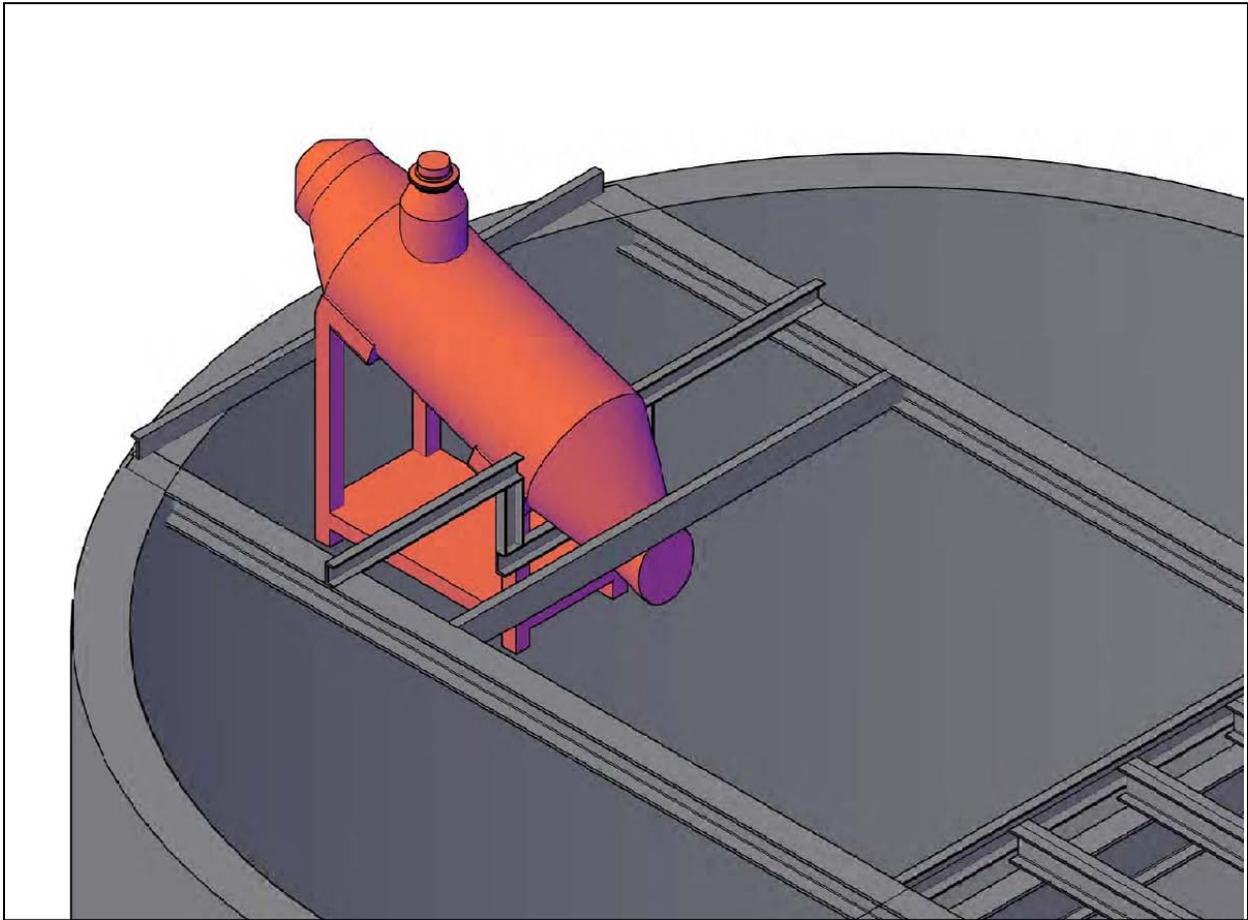


Figure 1 - Planned installation of Transvac pump in holding tank with pre-fabrication supports



Figure 2 - Transvac pump temporary installation



Figure 3 - C-clamp holding one Transvac support beam

Travelers: Bryan Heiner and Jimmy Hastings

5. Conclusions: The temporary installation of the Transvac pump was completed successfully during the trip.

6. Action correspondence initiated or required: A second trip will be planned to do minor fish testing.

7. Client feedback received: N/A

cc: TO-400 (Silva), TO-411 (Bridges), TO-460 (Imai)
Portz (86-68290)

SIGNATURES AND SURNAMES FOR:

Travel to: Tracy Fish Collection Facility, Byron CA

Date or Dates of Travel: 02/23/2012 to 02/24/2012

Names and Codes of Travelers: Bryan Heiner and Jimmy Hastings

Travelers

B Heiner
Signature

3-14-2012
Date

J Hastings
Signature

3-14-12
Date

Noted and Dated by:

Tony L. Wall
Signature

Acting Manager, 86-68460
Title

3/14/12
Date