Water Management
Technical Feedback Meeting

September 4, 2009
Visalia, CA

Agenda Overview

• Comments on Meeting Notes (10 min.)
• Status Update on Water Management Activities (10 min.)
• Interim Flow Recapture (20 min.)
• Restoration Flow Guidelines (20 min.)
• MC/FKC Capacity Correction Update (20 min.)
• Public Comment (5 min.)
• Agenda for Next Meeting (5 min.)
Comments on Meeting Notes

Status Update on Water Management Activities
Water Management Activities

- Restoration Flow Guidelines
- 16(a) Recapture & Recirculation
- 16(b) & Recovered Water Account
- Part III Guidelines
- Interim Flow Water Rights Petition
- Madera/Friant-Kern Canal Capacity Correction
- Friant-Kern Canal Pump-Back Facilities
- Water Transfers

Interim Flow Water Right Petition

- Petition was submitted
- 2 Letters of Support
- 2 Protests
  - SLDMWA and Westlands
  - Exchange Contractors
- Releases scheduled for October 1st
Interim Flow Releases

- Fall Flows: October 1, 2009 – November 20, 2009
  - Flow volumes already established (42,273 acre-feet)
- Spring & Summer Flows: February 1, 2010 – September 30, 2010
  - Flow volumes will be established during spring forecasting period

Estimated Maximum Average Water Year 2010 Interim Flows from Friant Dam Assuming a Wet Year
## Fall Interim Flows – RA Recommendation

<table>
<thead>
<tr>
<th>Interim Flow Start Date / Duration</th>
<th>Riparian Release (cfs)</th>
<th>Interim Flow Release (cfs)</th>
<th>Total Release from Friant Dam (cfs)</th>
<th>Volumes (af)</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 1st – October 30th</td>
<td>160</td>
<td>190*</td>
<td>350</td>
<td>20,826</td>
</tr>
<tr>
<td>October 31st – November 13th</td>
<td>130</td>
<td>570*</td>
<td>700</td>
<td>19,438</td>
</tr>
<tr>
<td>November 14th</td>
<td>120</td>
<td>210*</td>
<td>330</td>
<td>654</td>
</tr>
<tr>
<td>November 15th – November 20th</td>
<td>120</td>
<td>0</td>
<td>120</td>
<td>1,428</td>
</tr>
<tr>
<td><strong>Total Release Volume:</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>42,347</strong></td>
</tr>
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</table>

* Maximum flow available for Recapture

## Existing Channel Capacities May Reduce Releases or Increase Recapture

[Diagram showing channel capacities and flow rates]
Other Factors May Reduce Releases or Increase Recapture

- Blunt-Nosed Leopard Lizard
  - Flows in the Eastside and Mariposa bypasses could be impacted by the results of preflow release surveys

- Vernal Pools, Delta Button-Celery, & Alkali Sinks
  - Surveys during Interim Flow release periods in the Eastside and Mariposa bypasses will determine the need for reductions in flows or increases in recapture rates

- Delta Fish Species
  - Temperature monitoring at Merced confluence to determine the need to reduce Interim Flow releases or increase recapture rates
  - Ongoing consultation with USFWS, NMFS & DFG on recapture at Jones & Banks pumping plants

Interim Flow Recapture
Monitoring Locations

- Flow in excess of requirements or downstream channel capacities are recapturable
- Flows hitting Merced River confluence are recapturable

RA Recommendation with Anticipated Hydrology

<table>
<thead>
<tr>
<th>Begin Date</th>
<th>End Date</th>
<th>TOTAL Flows by Reach (Interim Flows, Riparian Deliveries and Imported Delta Supplies) Under the RA Recommended Proposed Action (cfs)</th>
</tr>
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<tbody>
<tr>
<td>10/1/09</td>
<td>10/30/09</td>
<td>Head of Reach 1 350, Head of Reach 2A 195, Head of Reach 2B 115, Head of Reach 3 715, Head of Reach 4A 115, In Reach 4B1 0, In Reach 4B2 115, In Bypass System 115, Head of Reach 5 115, Merced River 415</td>
</tr>
<tr>
<td>10/31/09</td>
<td>11/13/09</td>
<td>Head of Reach 1 700, Head of Reach 2A 575, Head of Reach 2B 475, Head of Reach 3 1075, Head of Reach 4A 475, In Reach 4B1 0, In Reach 4B2 475, In Bypass System 475, Head of Reach 5 475, Merced River 775</td>
</tr>
<tr>
<td>11/14/09</td>
<td></td>
<td>Head of Reach 1 330, Head of Reach 2A 215, Head of Reach 2B 135, Head of Reach 3 735, Head of Reach 4A 135, In Reach 4B1 0, In Reach 4B2 135, In Bypass System 135, Head of Reach 5 135, Merced River 535</td>
</tr>
<tr>
<td>11/15/09</td>
<td>11/20/09</td>
<td>Head of Reach 1 120, Head of Reach 2A 5, Head of Reach 2B 0, Head of Reach 3 600, Head of Reach 4A 0, In Reach 4B1 0, In Reach 4B2 0, In Bypass System 0, Head of Reach 5 0, Merced River 400</td>
</tr>
</tbody>
</table>

DMC Exchange (Potential)  NWR - Lone Tree Unit & East Bear Creek Unit Exchange (Potential)  Lower SJR Exchange & Delta Recapture (Potential)
Recapturable Fall Interim Flows –
RA Recommendation

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Recapture & Recirculation Depends on Transfer Agreements

- Potential Recapture Locations
- Storage in San Luis Dam
- Wheeling & Transfer Agreements
Restoration Flow Guidelines

- Consultation on Tabled Topics, 3rd Sept.
- Issues requiring further discussion have been framed.
- An updated RFG draft will proceed on remaining topics.
Madera & Friant-Kern Canals Capacity Correction Assessment and Friant-Kern Canal Reverse Flow Status Update

Feasibility Evaluation Process

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<th>Study Components</th>
<th>Capacity Correction</th>
<th>Pump-Back</th>
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<tr>
<td>Operations Study</td>
<td>RFP</td>
<td>RFP</td>
</tr>
<tr>
<td>Hydraulic Analysis</td>
<td>Under contract</td>
<td>RFP</td>
</tr>
<tr>
<td>Environmental Assessment</td>
<td>Under contract</td>
<td>Reclamation, Fresno</td>
</tr>
<tr>
<td>Engineering Design</td>
<td>Under contract</td>
<td>Reclamation, TSC</td>
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Benefits
Costs

Feasibility Assessment
**Pump-Back Progress**

- Blunt Nosed Leopard Lizard fall surveys in the Poso Creek area are currently being conducted by biology consultant.
- Reclamation site visit to White River Check (potential pump-back location).
- A bid proposal for pump-back operations and hydraulic modeling is currently being evaluated.

**Capacity Correction Progress**

- As-Built hydraulic model completed.
- A model which uses operational data as hydraulic inputs is expected next week.
- Bathymetric survey data will be used during the final calibration of the model.
- Consultation with FWA and MCWPA will be arranged following the first round of calibration~ September 28.
Public Comment

Agenda for Next Meeting

• Date & Time: October 2, 2009, 8:30am

• Tentative Agenda:
  – 16(a)
  – Water Transfer Provisions
  – RFG
  – Part III Guidelines
  – MC/FKC Capacity Correction Update