Agenda

• Introductions and Technical Feedback Group (TFG) Purpose
• Action Item Review and Update
• 2011 Interim Flows
• Parcel Groupings for Further Evaluation
• Draft High Priority Project Locations
• Information & Data Exchange
• Next Steps and Follow Through
TFG Objectives

• Convey Interim and Restoration Flows while avoiding seepage impacts
• Identify potential projects that would avoid seepage impacts
• Identify locations for projects with potential for seepage impacts
• Develop a common understanding of the process, procedures and expectations for projects

Process & Decision-making

• Monthly Meetings
  • Focused on Seepage Project Handbook and identifying projects to avoid seepage impacts
• Additional topics and meetings identified and considered as we proceed
  • Update Charter in Fall 2011
• Reclamation and its partner agencies retain decision authority for Program implementation

Discussion Topics

<table>
<thead>
<tr>
<th>Projects Intro</th>
<th>Site Evaluation</th>
<th>Plan Formulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>Data Collection</td>
<td>Project Types</td>
</tr>
<tr>
<td>Background</td>
<td>Investigations</td>
<td>Site-Specific</td>
</tr>
<tr>
<td>Purpose</td>
<td>Groundwater</td>
<td>Considerations</td>
</tr>
<tr>
<td>Potential Projects</td>
<td>Soil Salinity</td>
<td>Selection Criteria</td>
</tr>
<tr>
<td></td>
<td>Conductivity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water Quality</td>
<td></td>
</tr>
</tbody>
</table>
**Review and Update**

**ACTION ITEMS**

### Action Items

<table>
<thead>
<tr>
<th>ID</th>
<th>Date</th>
<th>Assigned To</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/14/11</td>
<td>Lee &amp; Green</td>
<td>Need updated due date from Sarge</td>
</tr>
<tr>
<td>2</td>
<td>2/10/11</td>
<td>Harrison</td>
<td>Pending</td>
</tr>
<tr>
<td>3</td>
<td>2/10/11</td>
<td>Harrison</td>
<td>Pending</td>
</tr>
<tr>
<td>4</td>
<td>2/10/11</td>
<td>Harrison</td>
<td>Discussions underway with DWR</td>
</tr>
<tr>
<td>5</td>
<td>3/22/11</td>
<td>Mooney</td>
<td>Complete</td>
</tr>
<tr>
<td>6</td>
<td>4/29/11</td>
<td>Mooney</td>
<td>Complete</td>
</tr>
<tr>
<td>7</td>
<td>4/29/11</td>
<td>Mooney</td>
<td>Complete</td>
</tr>
<tr>
<td>8</td>
<td>4/29/11</td>
<td>Mooney</td>
<td>Complete</td>
</tr>
</tbody>
</table>

### Tensiometer Study

- Reclamation is currently reviewing Sarge's draft plan
- Research – may not obtain decisive conclusions
- Suggested additions may include:
  - More specificity on site selection, including criteria for water table, crop, and distance from edge of field
  - Determinations of field capacity
  - Range in soil textures, USDA logs on site
Spring 2011 Hotline Calls

SJRRP Seepage Site Visit Form

Seepage Report (B Number): 2011-2
Date and Time of Site Evaluation: March 1, 2011
Names of persons attending site evaluation, agencies belonging to and contact info (phone):
Stephen Lee (Transportation), see document (SFO), representative of Transportation; Sharron Harrison (Revolutionary); Dave Wacker (Revolutionary), Sharon Colburn (Revolutionary)
Landowner name, phone, contact info: Sharron Colburn
Seepage Location
Address or Farm
River Mile (if known): 257.8
Approximate Distance from S.P.: W66/F2-99-93-2 is located in an elevated position on the river.
Note between the canal and the river. The well appears to be 4.5 feet higher than the field near the canal. OS-666-50-1
Proximity to lease line of most seepage (field) or through lease. No seepage

2011 INTERIM FLOWS

Current Status- Flood and Interim Flows

[Graph showing flow rates for different locations over the calendar year 2011]
PARCEL GROUPINGS FOR FURTHER EVALUATION

Elements of the Seepage Project Handbook

- Introduction
- Site Evaluation
- Plan Formulation ← Today
- Data Collection
- Design
- Environmental Compliance
- Construction
- Financial Assistance
Plan Formulation

1) Divide project area into parcel groups
2) Initial existing data collection
   • Prioritize parcel groups for first tier of potential project locations; rule out others
3) Develop list of potential projects for a parcel group
   • Today: Walk through parcels adjacent to the SJRRP project area, have been divided into parcel groups,

Step 1: Parcel Grouping Memo

• Purpose: Divide the project area into manageable sections for initiating and tracking projects
• Criteria for Initial Parcel Grouping:
  • Ownership
  • Topography
  • Infrastructure
  • Level of flow where impacts may occur
  • Soil Texture

Step 1: Parcel Grouping Memo

• Parcel groups may become seepage projects
• SCTF Comments: Logical divisions where criteria change
• Next steps:
  1. Existing Data Review
  2. Decision on further evaluation
  3. Site Evaluation
  4. Potential Seepage Project
**Step 1: Parcel Groupings**

**Step 2: Initial Existing Data Collection**

- **Purpose:**
  1) Prioritize initial list of parcel groups for further analysis / rule out others
  2) Get initial list of potential projects on a specific parcel group

- **Please add other information:**
  - Historical flooding
  - High groundwater
  - No issues

- **Data includes:**
  - Location information
  - Identified as historical seepage locations
  - Groundwater monitoring
  - Seepage observed from 2011 floods
  - Elevation
  - 1D hydraulic modeling
Step 2: Initial Existing Data Collection

- Please add other information:
  - Historical flooding
  - High groundwater
  - No concerns, continued monitoring
  - No further seepage consideration needed

---

Step 2: Initial Existing Data Collection

<table>
<thead>
<tr>
<th>Parcel Group</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reach:</td>
<td>3</td>
</tr>
<tr>
<td>River Mile:</td>
<td>301</td>
</tr>
<tr>
<td>Bank:</td>
<td>Left</td>
</tr>
<tr>
<td>Area (acres):</td>
<td>1218</td>
</tr>
</tbody>
</table>

- Identified as parcel having historical seepage by: Landowner, FWC
- Shallowest Groundwater level (level Measured): 4.0 feet below ground surface
- Measured on: 8/17/2000
- Monitoring Well: 366
- Shallowest Groundwater level Observed in 2011 (depth of surface ponding): 4.0 feet below ground surface
- Approximate Max Elevation (NAVD 88): Not Flow (ft)

---

Step 3: Initial List of Projects

- Projects include:
  - Real Estate
  - Easements
  - Acquisition
  - Physical
    - Tile drains
    - Slurry walls
    - Drainage ditches
    - Shallow well pumping
    - Conveyance improvements
Discussion

• Are these groupings okay?
• Are we missing divisions in soil texture, infrastructure, etc. to divide differently?
• Which parcel groups do we have enough information about to say no further analysis is needed?
• Which parcel groups need further analysis of existing data?
• Are there any parcel groups we know already need a project?

Katrina Harrison

DRAFT HIGH-PRIORITY LOCATIONS FOR ANALYSIS

Priority Parcel Groups

• Selected potential parcel groups for priority evaluation
• Criteria:
  • Observed 2011 seepage AND/OR
  • District manager observed historical seepage AND/OR
  • Shallowest nearby groundwater level above 4 feet, unaffected by irrigation
As shown in Parcel Group Packet

Parcel Group 2

- Parcel
- Parcel
- Parcel

Identified as potential parcel group for evaluation

- Identified as potential parcel group for evaluation
- Identified as potential parcel group for evaluation

Priority Parcel Groups – Part 1

Priority Parcel Groups – Part 2
Priority Parcel Groups

- What are we missing?
- Are there other criteria for selecting priority parcel groups we should be considering?

Prioritization Methods - Brainstorm

- Within priority parcel groups -
  - By location
  - By locations observed to flood in 2011 (flows different in different reaches)
  - By locations observed to historically flood (may be missing information)
  - By calculated Friant release flow from HEC-RAS and groundwater threshold assuming flat groundwater table

Projects Next Steps

- Comments back on parcel groups
- Comments back on data for parcel groups
- Comments back on priority parcel groups
- Prioritization Method within Priority groups
- Initial Projects for each Priority Parcel Group
- Selection Criteria
- Weighting
- Final Project Alternative(s)
Brainstorming

- Purpose: Open Forum for further comments

- Possible input includes:
  - Are we missing pieces of site evaluation?
  - Has anyone come up with creative solutions to a challenge?
  - Strategies to avoid inducing seepage?

Challenges

- Ownership
- Operations and Maintenance
- Water Discharge
- Water Rights
- Long-term Monitoring
- Cost-share
- Terms of an Agreement
Next Steps

- Feedback from Landowners on Parcel Groups, considerations for parcel groups, and priority parcel groups – July 27

- Set Next Meeting Dates:
  - August 4
  - September 8

Milestones for Handbook Preparation

- SMP Projects Intro
  - Site Evaluation
  - Plan Formulation
  - 2/18 Draft SMP
  - 3/11 3/15 2011 SMP
  - 4/14
  - 7/16
  - 7/16 Parcel Groupings
  - 7/27 Design Data Collection
Milestones for Handbook Preparation

<table>
<thead>
<tr>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Data</td>
<td>Design &amp; Environmental Compliance</td>
<td>Construction</td>
<td>Financial Assistance</td>
</tr>
<tr>
<td>TFG Meeting</td>
<td>Stakeholder Comments</td>
<td>Agency Deliverable Comments</td>
<td></td>
</tr>
</tbody>
</table>