

Seepage and Conveyance Technical Feedback Group

July 6, 2011 11704 Henry Miller Avenue Dos Palos, CA



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

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Review and Context

TECHNICAL FEEDBACK GROUP OBJECTIVES



TFG Objectives

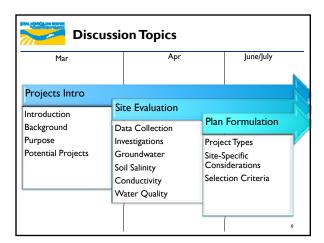
- Convey Interim and Restoration Flows while avoiding seepage impacts
- Identify potential projects that would avoid seepage impacts
- Identify locations for projects with potential for seepage impacts
- Develop a common understanding of the process, procedures and expectations for projects

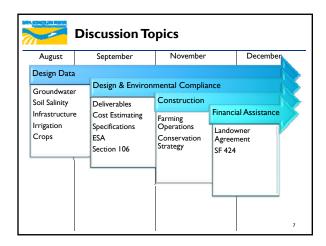
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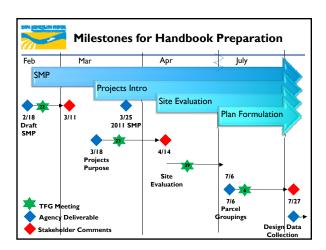


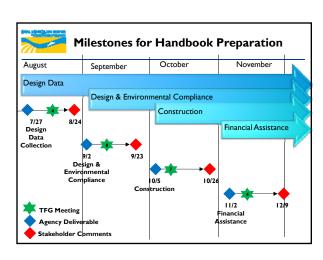
Process & Decision-making

- 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









Review and Update		
ACTION ITEMS		
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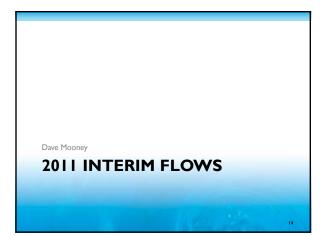
Open Action Items	ID'ed	Due	Assigned to:	Status
Work Plan for additional tensiometer work to develop more data on capillary fringe.	1/14/11	February 2011	Lee & Green	Need updated due date from Sarge.
2. Provide Monty and Chris with the excel files that the graphs are based on	2/10/11	3/10/11	Harrison	Pending
Add river mile station to river profile to link wells to locations	2/10/11	3/10/11	Harrison	Pending
 Explore partnering on the cultural resources survey to expand the scope to go out beyond the levee to collect information that would help evaluate projects 	2/10/11	3/10/11	Forsythe & White	Discussions underway with DWR.
5. Check that right of first refusal is offered to landowner	3/22/11	5/2/11	Mooney	Complete
Reclassify request for monitoring during floods as a hotline call. (Burkhart, Coburn, Nickel)	4/29/11	7/6/11	Mooney	Complete
7. Make CDEC streamgage info on stage consistently report in elevation	4/29/11			
8. Clarify the transition between flood and Interim Flows	4/29/11		Mooney	

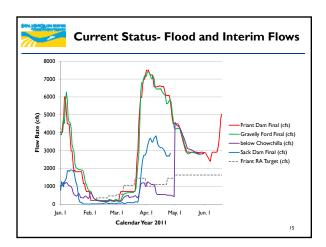


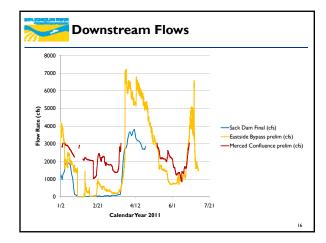
Tensiometer Study

- 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



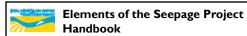






Katrina Harrison

PARCEL GROUPINGS FOR FURTHER EVALUATION



- 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

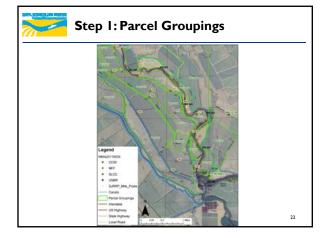
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Step I: Parcel Grouping Memo

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







Step 2: Initial Existing Data Collection

- Purpose:
- I) 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

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Step 2: Initial Existing Data Collection

- Data includes:
 - Location information
 - Identified as historical seepage locations
 - Groundwater monitoring
 - Seepage observed from 2011 floods
 - Elevation
 - ID 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

Parcel Group

Reach: 3 River Mile: 203 Bank: Left Area (acres): 1218

Review:

No Further considerations for seepage
No present concerns, continued monitoring
Historical seepage or flooding observed, evaluation required
Interim Flows seepage, flooding, or shallow groundwater observed

Status:

Nearby Monitoring Wells: 365, 366, 363, 369, 361, 367

Shallowest Groundwater Level Measured: 4.8 feet below ground surface Measured on 8/17/2010 in Monitoring Well 364

Shallowest Groundwater Level Observed in 2011 (depth of surface ponding):

Approximate Max Elevation (NAVD 88):

Max Flow (cfs):



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

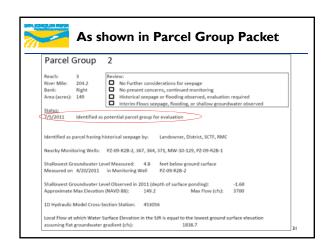
DRAFT HIGH-PRIORITY LOCATIONS FOR ANALYSIS

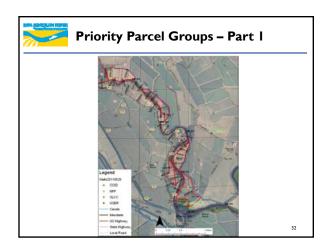
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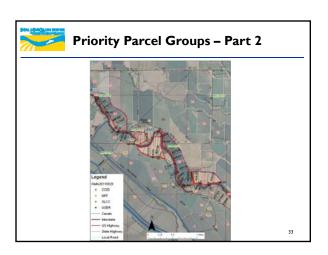


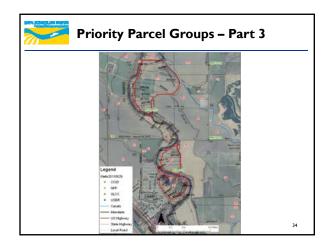
Priority Parcel Groups

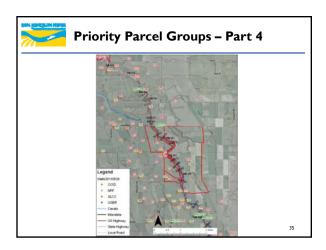
- Selected potential parcel groups for priority evaluation
- Criteria:
 - Observed 2011 seepage AND/OR
 - District manager observed historical seepage AND/OR
 - Shallowest nearby groundwater level above 4 feet, unaffected by irrigation

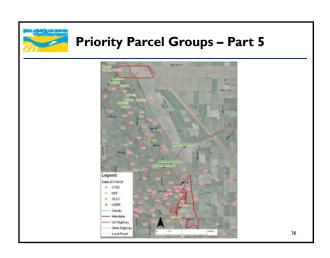














Priority Parcel Groups

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

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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

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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)

Dave Mooney
INFORMATION & DATA
EXCHANGE



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?

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Challenges

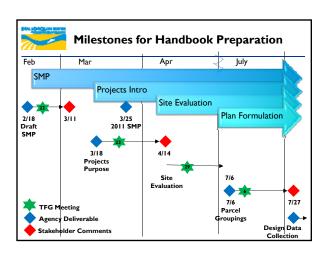
- Ownership
- Operations and Maintenance
- Water Discharge
- Water Rights
- Long-term Monitoring
- Cost-share
- Terms of an Agreement

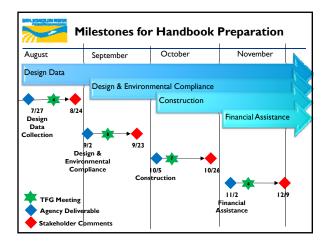
Patti Ransdell
NEXT STEPS AND FOLLOWTHROUGH



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





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Action Items and Review

- Update Action Items
 - Revised Actions
 - New Actions

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Contact

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