

Seepage and Conveyance Technical Feedback Group

August 4, 2011 11704 Henry Miller Avenue Dos Palos, CA



Agenda

- Introductions and Technical Feedback Group (TFG) Purpose
- Action Item Review and Update
- Seepage Project Implementation Steps
- Book of Seepage Parcel Groups
- Site Evaluation Process
- Plan Formulation Criteria Brainstorming
- Information & Data Exchange
- Next Steps and Follow-through

,

Review and Context

TECHNICAL FEEDBACK GROUP OBJECTIVES



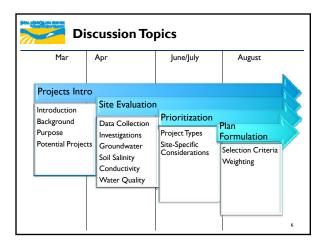
TFG Objectives

- 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

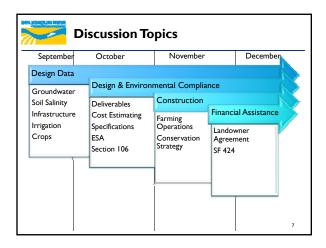


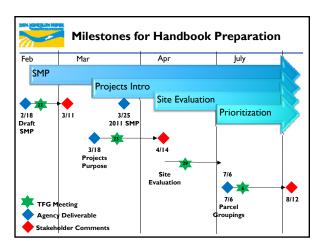
Process & Decision-making

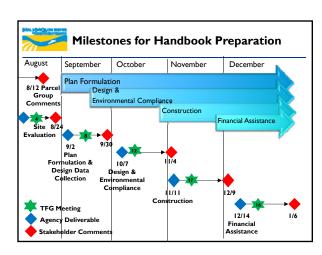
- Monthly Meetings
 - Focused on Seepage Project Handbook and identifying projects to avoid seepage impacts
- Additional topics and meetings identified and considered as we proceed
 - Update Charter in Fall 2011
- Reclamation and its partner agencies retain decision authority for Program implementation



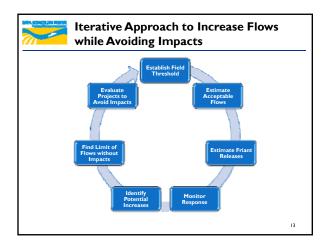
_	
7	
/	

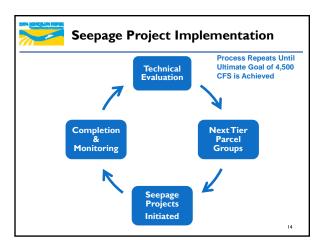


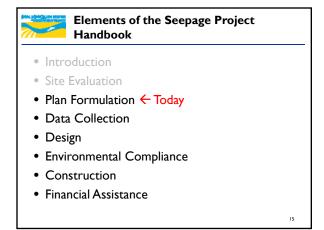


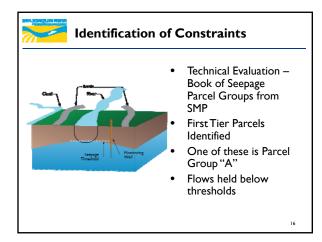


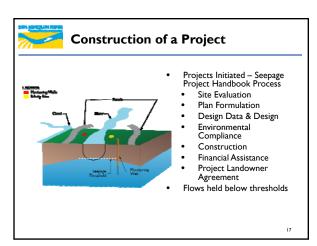
Review and Update						
ACTION ITE	EMS					
				10		
		11.16.10	8.50	V 70		
Action Iter	me					
Action iter	115					
Action Items	ID'ed	Due	Assigned to:	Status		
1. Restart weekly operators call to discuss	7/6/11	7/13/11	Mooney	Completed		
transition of flows	7/6/11	9/4/11	Harrican	Completed		
2. Add crop type to parcel data	7/6/11	8/4/11	Harrison	Completed		
3. Can parcel groups include individual APNs?	7/6/11	8/4/11	Harrison			
4. Provide RMC with list of landowner	7/6/11	Prior to RMC	Harrison	Complete		
names from priority parcel groupings		Exec Team Mtg.				
5. Confirm times/locations of upcoming	7/6/11	7/6/11	All	Complete		
meetings						
6. Post deliverables from July 6 meeting	7/6/11	7/30/11	Harrison,]		
on website upon approval from landowners via RMC	1		Ransdell	1		
7. Have a general conversation with Kings		8/4/11	Sarge Green			
River area Regional Board Staff about]			
types of info they like to see on permits				11		
Permits	1	1	1	111		
Davo Maanay						
Dave Mooney						
SEEPAGE PE	ROIE	CT				
		ONICT	-FPC			
IMPLEMENT	TATIO	ON ST	EPS			
	TATIO	ON ST	EPS			
	ΓΑΤΙ	ON ST	EPS	12		

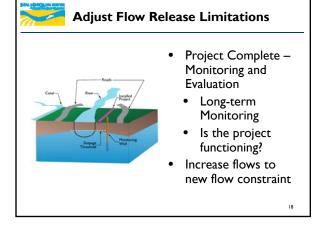


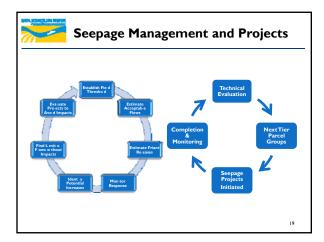












Katrina Harrison

BOOK OF PARCEL GROUPS

20



Input Needed on Parcel Groups

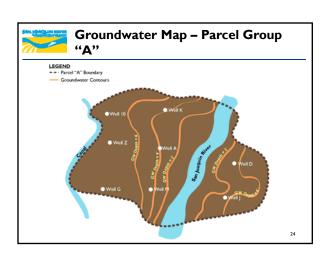
- Are there other boundaries we should consider?
- New ownership lines?
- Others?
- Comments due Friday, August 12

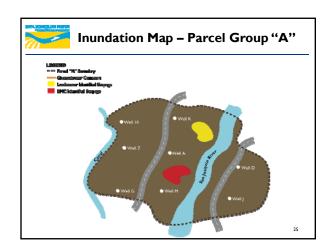


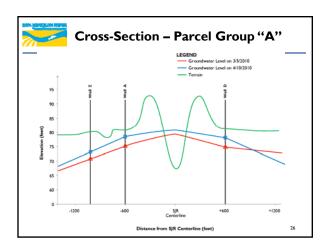
Input needed on Parcel Group Data

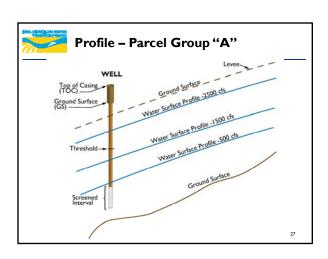
- Existing Data Includes:
 - Groundwater Data
 - Anecdotal Inundation Data
 - Cross-sections
 - Profiles
 - Locations
- Comments due Friday, August 12









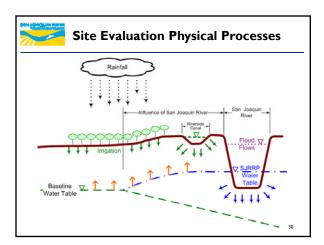




70 -

Seepage Project Handbook Sections

- A. Introduction
- B. Site Evaluation
 - I. Records Review
 - 2. Fieldwork
 - 3. Analysis
 - 4. Reporting
 - 1. Initial Screening
 - 2. Initial Alternatives





Salinity Sources

- Irrigation Water
- Fertilizer
- Soil Amendments
- Natural Soil Minerals
- Shallow Groundwater Rise





Groundwater Rise Sources

- Rainfall
- Irrigation
- Canal Seepage
- Flood Flow Seepage
- SJRRP Seepage



Existing Records Review

Reclamation has:

- Precipitation Records
- Historic Aerial Photos
- Reclamation may have:
- Soil Texture
- Soil Salinity Sampling
- Groundwater Monitoring Infrastructure
- Monitoring

- Landowners may have:
- Yield Data
- Irrigation Records
- Fertilizer Applications
- Aerial Photos
- Soil Texture
- Soil Salinity
- Surface Water



Site Evaluation Report

- Standard technical write-up of Site Evaluation
 - Methods
 - Results
 - Discussion
 - Conclusion
- Initial Screening
- Initial Alternatives
 - Those project types that pass the initial screening

34



Seepage Project Handbook

- Comments:
 - Any additional site evaluation techniques?
 - Does initial screening make sense?
 - Any additional reporting that would help?
- Written Comments due by August 24

35

Katrina Harrison

PLAN FORMULATION CRITERIA BRAINSTORMING



Plan Formulation

- Purpose: Selection of a project from a list of initial alternatives
 - Need a defensible approach
 - Use selection criteria
 - Weight criteria according to importance
- Obtain final project type and move on to design data collection and then design

37



Potential Projects

- Real Estate
 - Easements
 - Acquisition
- Physical
 - Tile drains
 - Slurry walls
 - Drainage ditches
 - · Shallow well pumping
 - Conveyance improvements



38



Brainstorm Selection Criteria

- How do you want to chose a seepage project given the information available?
 - Design/Feasibility
 - Suitability to Site Conditions
 - Landowner Acceptability
 - Cost
 - $\, \mathsf{Ownership} \, / \, \mathsf{Project} \, \mathsf{Agreement} \,$
 - Environmental Compliance
 - Others?



Brainstorm Selection Criteria

Are some criteria more important than others?

How should we weight these criteria?

Brainstorm weightings:

- High
- Medium
- Low

40



Projects Next Steps

- Comments back on parcel groups, data
 - Due Friday, August 12
- Comments back on Site Evaluation SPH section
 - Due Wednesday, August 24
- Agency deliverable for Plan Formulation and Design Data Collection
 - September 2

41

Dave Mooney

INFORMATION & DATA EXCHANGE



Landowner Input

- Preparation for next meeting:
 - What additional data needs to be collected for design?
 - What should design considerations be?

43



Challenges

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

44

Patti Ransdell

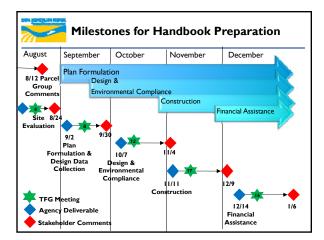
NEXT STEPS AND FOLLOW-THROUGH



Next Steps

- Feedback from Landowners on Parcel Groups, considerations for parcel groups, and priority parcel groups
 - Due Friday, August 12
- Feedback on Draft Seepage Project Handbook Section
 - Due Wednesday, August 24
- Next Meeting Date:
 - Thursday, September 8

46



Char selate	
200	-
00	
,,,,	

Action Items and Review

- Update Action Items
 - Revised Actions
 - New Actions

MARK MARK		100
	_	
The same of the sa		
		_

Contact

- Technical Feedback Group David Mooney
 - 916-978-5458
 - dmmooney@usbr.gov
- Seepage Concerns Seepage Hotline
 - 916-978-4398
 - interimflows@restoresjr.net

1	7
_	,