

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2091	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.			
Reclamation District No. 2091 Chase	M *	7.92				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Trim / Thin Trees	0.01		0.01	0.13%		
Animal Control	0.01		0.01	0.13%		
Slope Stability		0.01	0.04	0.51%		
<i>LMA Totals:</i>	0.02	0.01	0.06	0.76% *	0.00	0.00
Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
RD2091	M *	7.59				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Animal Control	0.01		0.01	0.13%		
Slope Stability		0.01	0.04	0.53%		
<i>Unit Totals:</i>	0.01	0.01	0.05	0.66% *	0.00	0.00
Unit No. 02 San Joaquin River NA	Overall Unit Rating	Total Unit Miles				
RD2091	A	0.33				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Trim / Thin Trees	0.01		0.01	3.03%		
<i>Unit Totals:</i>	0.01	0.00	0.01	3.03%	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2011 Levee Inspection Results

Reclamation District No. 2091 Chase

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	7.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	5/17/2011 - 5/17/2011		11/29/2011 - 11/29/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Mike Alves RD 2091		Mike Alves RD 2091	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2091 Chase

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	7.59	11/29/2011 11/29/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	7.59	Earthen Levee	Vegetation	CR	A	Remove the wild growth other than native grasses from the levee slopes.	37.541479 ° -121.092845 °	37.478860 ° -121.044650 °	6 Y
2	4.20	4.20	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.503555 ° -121.081932 °	37.503555 ° -121.081932 °	1
3	6.84	6.84	Earthen Levee	Seepage / Sandboils	LS	A	Inspector Comments: Several boils was activated doing the 2006 flood event. The LMA repaired the site with geo-farbic and drain rock this summer.	37.481305 ° -121.053302 °	37.481305 ° -121.053302 °	2 Y
4	7.55	7.55	Earthen Levee	Slope Stability	LS	U	Repair slope instability. Inspector Comments: Slide appears to be 100' + feet long on landside slope. Cracks are approx. 4-9" wide and 12-18" deep. Slide extends from the middle of the landside slope to landside toe.	37.479203 ° -121.044695 °	37.479203 ° -121.044695 °	3 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/29/2011 11/29/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	7.59
Location	Crown
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee crown

richard_f_20110922_571.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	7.59
Location	Crown
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of levee slopes.

richard_f_20111130_474.jpg



Levee Mile Report Line	3
Start Levee Mile	6.84
End Levee Mile	6.84
Location	Land Side
Category	Earthen Levee
Item	Seepage / Sandboils

Looking north at sandboils repair on landside berm.

richard_f_20111130_467.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/29/2011 11/29/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking south at slide on landside slope next to irrigation ditch.	
richard_f_20111130_468.jpg	



Levee Mile Report Line	4
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking southwest a slide on landside slope.	
richard_f_20111130_469.jpg	



Levee Mile Report Line	4
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking at south end of slide.	
richard_f_20111130_470.jpg	

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Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/29/2011 11/29/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking at north end of slide next to irrigation ditch.

richard_f_20111130_471.jpg



Levee Mile Report Line	4
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at irrigation ditch at landside toe.

richard_f_20111130_472.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.33

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/17/2011 - 5/17/2011		11/29/2011 - 11/29/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

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Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2091 Chase

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River						0.33	11/29/2011 11/29/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.03	0.03	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.482523 ° -121.051103 °	37.482523 ° -121.051103 °	1 Y

*** Location**

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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	11/29/2011 11/29/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southeast at tree on waterside toe and berm.

richard_f_20111130_473.jpg



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