

**Flood Control Project Maintenance
Levee Inspections**

Fall 2009 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2085		Overall LMA Rating	Total LMA Miles				
Reclamation District No. 2085 Kasson		M	6.18				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Trim / Thin Trees	0.20		0.20	3.24%			
Encroachments	0.48		0.48	7.77%	0.17		
Animal Control	0.04	0.10	0.44	7.12%			
Slope Stability	0.02		0.02	0.32%			
Metal Pipes	0.01		0.01	0.16%			
<i>LMA Totals:</i>	0.75	0.10	1.15	18.61%	0.17	0.00	

Unit No. 01 San Joaquin River		Overall Unit Rating	Total Unit Miles				
		U	5.20				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Trim / Thin Trees	0.20		0.20	3.85%			
Encroachments	0.48		0.48	9.23%	0.17		
Animal Control	0.04	0.10	0.44	8.46%			
Slope Stability	0.01		0.01	0.19%			
Metal Pipes	0.01		0.01	0.19%			
<i>Unit Totals:</i>	0.74	0.10	1.14	21.92%	0.17	0.00	

Unit No. 02 San Joaquin River		Overall Unit Rating	Total Unit Miles				
		A	0.69				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
No Items							
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.00	0.00	

Unit No. 03 San Joaquin River		Overall Unit Rating	Total Unit Miles				
		A	0.29				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Slope Stability	0.01		0.01	3.45%			
<i>Unit Totals:</i>	0.01	0.00	0.01	3.45%	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2009 Levee Inspection Results

Reclamation District No. 2085 Kasson

	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 2009 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Left	5.20

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/6/2009		10/28/2009	
DWR Inspector	David Pesavento		John Paasch	
Accompanied By			Ralph Timan	

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, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/28/2009 12/09/2009	John Paasch

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.46	Earthen Levee	Encroachments	WS	M	Material Inspector Comments: Dredging tailings from Banta Carbona inlet are placed on levee crown and slope.	37.718143 ° -121.303636 °	37.723469 ° -121.298821 °	40 Y
2	0.64	0.69	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Nothing has changed.	37.722037 ° -121.296227 °	37.721460 ° -121.295535 °	3 Y
3	0.83	0.83	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Several small animal holes in the levee slope.	37.719939 ° -121.293779 °	37.719939 ° -121.293779 °	41 Y
4	0.90	0.90	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: ATV traffic up levee slope	37.719193 ° -121.292902 °	37.719193 ° -121.292902 °	42 Y
5	1.28	1.28	Interior Drainage & Piping Systems	Metal Pipes	WS	M	Inspector Comments: Drainage outlet pipe has completely deteriorated. District has a design and is accepting bids for the repair.	37.714462 ° -121.289608 °	37.714462 ° -121.289608 °	43 Y
6	1.59	1.59	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.712639 ° -121.284665 °	37.712639 ° -121.284665 °	26
7	2.45	2.45	Earthen Levee	Trim / Thin Trees	CR	M	Trim trees over roadway to at least 12 feet above ground level.	37.703743 ° -121.274552 °	37.703743 ° -121.274552 °	6
8	2.49	2.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	37.703144 ° -121.274716 °	37.703144 ° -121.274716 °	27 Y
9	2.56	2.56	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.702135 ° -121.275212 °	37.702135 ° -121.275212 °	7
10	2.66	2.66	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.714462 ° -121.289608 °	37.714462 ° -121.289608 °	44
11	3.01	3.01	Earthen Levee	Animal Control	WS	U	Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Photo of uncovered den	37.696662 ° -121.277066 °	37.696662 ° -121.277066 °	45 Y
12	3.04	3.04	Earthen Levee	Encroachments	LS	C	Tree or limb	37.696289 ° -121.276870 °	37.696289 ° -121.276870 °	28
13	3.24	3.24	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: Steel Pipe daylights on water side. Remnants of a turnout and collar on land side. Condition of abandoned pipe under levee is unknown.	37.693439 ° -121.277702 °	37.693439 ° -121.277702 °	46

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected	C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/28/2009 12/09/2009	John Paasch

LMIR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	3.24	3.33	Earthen Levee	Animal Control	WS	U	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Numerous animal burrows through this segment of levee.	37.693439 ° -121.277702 °	37.692166 ° -121.278074 °	47 Y
15	3.76	3.76	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Iceplant	37.686358 ° -121.276752 °	37.686358 ° -121.276752 °	29
16	3.78	3.78	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	37.686063 ° -121.276757 °	37.686063 ° -121.276757 °	10
17	3.84	3.84	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Iceplant	37.685251 ° -121.276522 °	37.685251 ° -121.276522 °	30
18	3.87	3.89	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Visibility and access are more limited as tree density increases.	37.684827 ° -121.276350 °	37.684531 ° -121.276267 °	31 Y
19	4.15	4.15	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.682057 ° -121.272894 °	37.682057 ° -121.272894 °	48
20	4.16	4.16	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	37.682019 ° -121.272723 °	37.682019 ° -121.272723 °	32
21	4.29	4.32	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Photo of trees near gate.	37.681765 ° -121.270375 °	37.681868 ° -121.269917 °	11 Y
22	4.32	4.37	Earthen Levee	Encroachments	LS	PO	Landscaping	37.681863 ° -121.269856 °	37.681640 ° -121.269046 °	33 Y
23	4.37	4.37	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.681606 ° -121.268942 °	37.681606 ° -121.268942 °	13
24	4.39	4.39	Earthen Levee	Encroachments	LS	M	Tree or limb	37.681536 ° -121.268668 °	37.681536 ° -121.268668 °	12 Y
25	4.44	4.44	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.681355 ° -121.267775 °	37.681355 ° -121.267775 °	34
26	4.46	4.46	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.681280 ° -121.267300 °	37.681280 ° -121.267300 °	14
27	4.64	4.64	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.679995 ° -121.264968 °	37.679995 ° -121.264968 °	15
28	4.79	4.79	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: iceplant	37.678316 ° -121.266536 °	37.678316 ° -121.266536 °	35
29	4.82	4.82	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.678183 ° -121.267181 °	37.678183 ° -121.267181 °	16

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/28/2009 12/09/2009	John Paasch

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
30	4.85	4.85	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.678025 ° -121.267691 °	37.678025 ° -121.267691 °	36
31	4.87	4.87	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.677946 ° -121.268061 °	37.677946 ° -121.268061 °	37 Y
32	4.96	4.96	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	37.677520 ° -121.269489 °	37.677520 ° -121.269489 °	38
33	5.03	5.12	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Owner has landscaped the LS levee with a sprinkler system and iceplant.	37.676818 ° -121.269630 °	37.675291 ° -121.269229 °	23
34	5.04	5.04	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	37.676415 ° -121.269567 °	37.676415 ° -121.269567 °	39

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/28/2009 12/09/2009	John Paasch

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Photo of tailings along canal.

jpaasch_20091102_130.jpg



Levee Mile Report Line	3
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Photo of several animal burrows on water side slope.

jpaasch_20091102_131.jpg



Levee Mile Report Line	4
Start Levee Mile	0.90
End Levee Mile	0.90
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Photo of vehicle traffic on landside slope of levee. Tracks continue onto water side.

jpaasch_20091102_132.jpg



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>	<p>C : Corrected</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/28/2009 12/09/2009	John Paasch

Levee Mile Report Line	5
Start Levee Mile	1.28
End Levee Mile	1.28
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes
Photo of deteriorated drainage outlet at the bank of the San Joaquin River.	
jpaasch_20091102_133.jpg	



Levee Mile Report Line	8
Start Levee Mile	2.49
End Levee Mile	2.49
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trim tree branches that are low at this location to allow for vehicular traffic.	
jpaasch_20091102_134.jpg	



Levee Mile Report Line	11
Start Levee Mile	3.01
End Levee Mile	3.01
Location	Water Side
Category	Earthen Levee
Item	Animal Control
Photo of small animal burrow uncovered by a predator creating a larger entrance.	
jpaasch_20091102_135.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/28/2009 12/09/2009	John Paasch

Levee Mile Report Line	14
Start Levee Mile	3.24
End Levee Mile	3.33
Location	Water Side
Category	Earthen Levee
Item	Animal Control
Several animal burrows on the water side slope.	
jpaasch_20091102_136.jpg	



Levee Mile Report Line	18
Start Levee Mile	3.87
End Levee Mile	3.89
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Photo of untrimmed trees on water side slope of levee.	
jpaasch_20091102_137.jpg	



Levee Mile Report Line	21
Start Levee Mile	4.29
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Photo of trees requiring trimming on land side slope.	
jpaasch_20091102_138.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	10/28/2009 12/09/2009	John Paasch

Levee Mile Report Line	22
Start Levee Mile	4.32
End Levee Mile	4.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Photo of obstructive landscaping on land side slope and toe.

jpaasch_20091102_139.jpg



Levee Mile Report Line	24
Start Levee Mile	4.39
End Levee Mile	4.39
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Photo of fallen tree near levee slope and toe. This tree was documented in the previous inspection.

jpaasch_20091102_140.jpg



Levee Mile Report Line	31
Start Levee Mile	4.87
End Levee Mile	4.87
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees within 20-ft of levee crown need to be trimmed for access and visibility.

jpaasch_20091102_141.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River		0.69

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/6/2009		10/28/2009	
DWR Inspector	David Pesavento		John Paasch	
Accompanied By			Ralph Timan	

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Signature of LMA Representative

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Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	10/28/2009 10/28/2009	John Paasch

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.15	0.15	Earthen Levee	Vegetation		C	Remove the wild growth other than native grasses from the levee slopes.	37.706212 ° -121.273821 °	37.706212 ° -121.273821 °	1

<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>	<p>C : Corrected</p>
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles
Unit No. 03 San Joaquin River		0.29

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/6/2009		10/28/2009	
DWR Inspector	David Pesavento		John Paasch	
Accompanied By			Ralph Timan	

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/28/2009 10/28/2009	John Paasch

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.21	0.21	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.682796 ° -121.262034 °	37.682796 ° -121.262034 °	3 Y
2	0.28	0.28	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Condition of this unit serves as an example of acceptable vegetation.	37.683617 ° -121.261845 °	37.683617 ° -121.261845 °	2

<p>* Location LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/28/2009 10/28/2009	John Paasch

Levee Mile Report Line	1
Start Levee Mile	0.21
End Levee Mile	0.21
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Photo of damaged slope due to vehicle traffic.	
jpaasch_20091102_142.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable PO : Partially Obstructing C : Corrected M : Minimally Acceptable CO : Completely Obstructing U : Unacceptable N : Not Inspected</p>
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