

**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**

<b>RD2031 Reclamation District No. 2031 Elliot</b>		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.		
		<b>M *</b>	<b>13.19</b>			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles	
Vegetation	0.10	0.04	0.26	1.97%		
Trim / Thin Trees	0.60		0.60	4.55%		
Encroachments	0.30		0.30	2.27%	0.32	0.13
Animal Control	0.05		0.05	0.38%		
Crown Surface / Depressions / Rutting	0.02		0.02	0.15%		
DWR Erosion Survey	0.04		0.04	0.30%		
<i>LMA Totals:</i>	1.11	0.04	1.27	9.63% *	0.32	0.13

  

<b>Unit No. 01 Stanislaus River</b>		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.		
		<b>M *</b>	<b>7.15</b>			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles	
Vegetation	0.03	0.04	0.19	2.66%		
Encroachments	0.29		0.29	4.06%	0.31	0.12
Animal Control	0.05		0.05	0.70%		
Crown Surface / Depressions / Rutting	0.02		0.02	0.28%		
DWR Erosion Survey	0.04		0.04	0.56%		
<i>Unit Totals:</i>	0.43	0.04	0.59	8.25% *	0.31	0.12

  

<b>Unit No. 02 San Joaquin River</b>		Overall Unit Rating	Total Unit Miles			
		<b>M</b>	<b>6.04</b>			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles	
Vegetation	0.07		0.07	1.16%		
Trim / Thin Trees	0.60		0.60	9.93%		
Encroachments	0.01		0.01	0.17%	0.01	0.01
<i>Unit Totals:</i>	0.68	0.00	0.68	11.26%	0.01	0.01

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

**Reclamation District No. 2031 Elliot**

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

\*\* 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. 2031 Elliot**

<b>Waterway</b>		<b>Bank</b>	<b>Unit Miles</b>
Unit No. 01 Stanislaus River		Left	7.15

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	5/11/2009		10/19/2009	
DWR Inspector	Herman Phillips		John Paasch	
Accompanied By			Bob Buckmaster	
			Billy Lyons	

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. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	10/20/2009 10/20/2009	John Paasch

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.07	Earthen Levee	Encroachments	WS	PO	Fences Inspector Comments: Wooden and steel livestock fence and debris limit access to slope.	37.710001 ° -121.155391 °	37.709871 ° -121.156568 °	963 Y
2	0.07	0.07	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Brush and small tree w/ photo	37.709871 ° -121.156568 °	37.709871 ° -121.156568 °	964 Y
3	0.40	0.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.705398 ° -121.158288 °	37.705398 ° -121.158288 °	966
4	0.47	0.50	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: No change; 1" fissure crack developing that is 6" deep; recommend as local maintenance issue, per CLRO CES Evaluation 2008 Report; previously rated "U" [2009 SiteID:RD2031U1RM0.48]	37.704740 ° -121.159140 °	37.704740 ° -121.159140 °	1
5	0.51	0.51	Earthen Levee	Encroachments	WS	M	Tree or limb Inspector Comments: Downed tree limbs should be removed.	37.704136 ° -121.159462 °	37.704136 ° -121.159462 °	967 Y
6	0.51	0.51	Earthen Levee	Vegetation	CR	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: tobacco leaf	37.704136 ° -121.159462 °	37.704136 ° -121.159462 °	968
7	0.55	0.65	Earthen Levee	Encroachments	LS	CO	Buildings Inspector Comments: Corrals and house	37.703626 ° -121.159714 °	37.702648 ° -121.160700 °	969 Y
8	0.64	0.64	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.702766 ° -121.160598 °	37.702766 ° -121.160598 °	970
9	0.70	0.75	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.702138 ° -121.161329 °	37.701566 ° -121.161852 °	971
10	0.75	0.78	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.701566 ° -121.161852 °	37.701178 ° -121.162086 °	972
11	0.97	0.97	Earthen Levee	Encroachments	WS	M	Tree or limb	37.699536 ° -121.164667 °	37.699536 ° -121.164667 °	973
12	1.08	1.08	Earthen Levee	Encroachments	CR	M	Tree or limb	37.699060 ° -121.166553 °	37.699060 ° -121.166553 °	974
13	1.09	1.09	Earthen Levee	Encroachments	LS	M	Prunings	37.699024 ° -121.166727 °	37.699024 ° -121.166727 °	975 Y
14	1.30	1.30	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	37.699686 ° -121.170118 °	37.699686 ° -121.170118 °	976 Y

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> 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. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	10/20/2009 10/20/2009	John Paasch

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	1.30	1.32	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.699686 ° -121.170118 °	37.699879 ° -121.170384 °	977
16	1.54	1.55	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.699317 ° -121.173762 °	37.699242 ° -121.173880 °	8
17	1.80	1.80	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation near small feedlot.	37.696895 ° -121.177452 °	37.696895 ° -121.177452 °	978 Y
18	2.44	2.47	Earthen Levee	Encroachments	LS	M	Equipment	37.688102 ° -121.180200 °	37.688102 ° -121.180200 °	24 Y
19	2.88	2.88	Earthen Levee	Encroachments	WS	M	Tree or limb Inspector Comments: Branches on waterside slope should be removed.	37.686858 ° -121.187210 °	37.686858 ° -121.187210 °	979
20	3.63	3.63	Earthen Levee	Encroachments	LS	M	Agricultural tilling	37.690371 ° -121.197307 °	37.690371 ° -121.197307 °	980 Y
21	3.70	3.70	Earthen Levee	Vegetation	LS	C	Elderberries are blocking visibility and flood fight capability.	37.689920 ° -121.198305 °	37.689920 ° -121.198305 °	14
22	4.60	4.80	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: Wind blown Poplars	37.684474 ° -121.208447 °	37.682167 ° -121.209098 °	981
23	4.60	4.80	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Poplars	37.684474 ° -121.208447 °	37.682167 ° -121.209098 °	982
24	5.45	5.45	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Wild Rose Bushes	37.677010 ° -121.217521 °	37.677010 ° -121.217521 °	983
25	5.68	5.68	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Mostly Willow	37.673718 ° -121.217609 °	37.673718 ° -121.217609 °	984
26	5.75	5.75	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Wild Rose Bushes	37.672782 ° -121.218019 °	37.672782 ° -121.218019 °	985

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> 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. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	10/20/2009 10/20/2009	John Paasch

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.07
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Photo looking upstream at beginning of unit 1. Water side to the left.	
jpaasch_20091026_60.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.07
End Levee Mile	0.07
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Photo of vegetation on water side slope.	
jpaasch_20091026_61.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.51
End Levee Mile	0.51
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Trees and limbs on water side slope limit access and visibility.	
jpaasch_20091026_63.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> 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. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	10/20/2009 10/20/2009	John Paasch

Levee Mile Report Line	7
Start Levee Mile	0.55
End Levee Mile	0.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Photo of livestock pens and house on landside slope.	
jpaasch_20091026_62.jpg	



Levee Mile Report Line	13
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Prunings within 10-ft of landside toe.	
jpaasch_20091026_64.jpg	



Levee Mile Report Line	14
Start Levee Mile	1.30
End Levee Mile	1.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Dense vegetation limits visibility and access to slope.	
jpaasch_20091026_65.jpg	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	10/20/2009 10/20/2009	John Paasch

Levee Mile Report Line	17
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Dense vegetation near small feedlot limits should be removed to 10-ft beyond the landside toe.	
jpaasch_20091026_66.jpg	



Levee Mile Report Line	18
Start Levee Mile	2.44
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Photo of equipment on landside to within 10-ft of levee toe partially obstructs access and visibility.	
jpaasch_20091026_67.jpg	



Levee Mile Report Line	20
Start Levee Mile	3.63
End Levee Mile	3.63
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Piles of sand presumably from nearby turnouts should be removed from the levee toe.	
jpaasch_20091026_68.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> 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  
Unit Cover Sheet  
Fall 2009 Levee Inspection Results  
Reclamation District No. 2031 Elliot**

Waterway		Bank	Unit Miles
Unit No. 02 San Joaquin River		Right	6.04

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	5/15/2009		10/19/2009	
DWR Inspector	Herman Phillips		John Paasch	
Accompanied By			Mr. Bob Buckmaster RD 2031	
			Billy Lyons	

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.
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Comments

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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. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	10/20/2009 10/20/2009	John Paasch

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.20	0.20	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: Fallen tree limb on slope.	37.659086 ° -121.234156 °	37.659086 ° -121.234156 °	964
2	1.45	1.45	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Wild Rose Bush on landside slope.	37.647708 ° -121.220873 °	37.647708 ° -121.220873 °	965
3	3.00	3.60	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: Trees and vegetation along highway are on the landside slope of the levee.	37.637626 ° -121.207191 °	37.638301 ° -121.196465 °	966
4	3.80	3.87	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall grass at toe should be removed for visibility.	37.638152 ° -121.192869 °	37.637997 ° -121.191658 °	967 Y
5	3.97	3.97	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Pepper trees are on landside slope.	37.636629 ° -121.191150 °	37.636629 ° -121.191150 °	968

<p><b>* Location</b>                  LS : Land Side                  WS : Water Side                  CR : Crown</p>	<p><b>** Rating</b>                  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. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	10/20/2009 10/20/2009	John Paasch

Levee Mile Report Line	4
Start Levee Mile	3.80
End Levee Mile	3.87
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Photo of tall grass near levee toe at the rod and gun club.	
jpaasch_20091026_69.jpg	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></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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