

**Flood Control Project Maintenance
Levee Inspections**

Fall 2009 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0019		Overall LMA Rating	Total LMA Miles				
Tehama County Flood Control and Water Conservation District		M	13.64				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.72		0.72	5.28%			
Trim / Thin Trees	0.14		0.14	1.03%			
Encroachments	0.52		0.52	3.81%	0.09		
Animal Control	0.01		0.01	0.07%			
Slope Stability	0.28		0.28	2.05%			
Erosion / Bank Caving	0.02		0.02	0.15%			
USACE Erosion Survey	0.01		0.01	0.07%			
<i>LMA Totals:</i>	1.70	0.00	1.70	12.46%	0.09	0.00	

Unit No. 01 Deer Creek		Overall Unit Rating	Total Unit Miles				
		A	4.11				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Trim / Thin Trees	0.14		0.14	3.41%			
Encroachments	0.04		0.04	0.97%	0.02		
Slope Stability	0.12		0.12	2.92%			
Erosion / Bank Caving	0.01		0.01	0.24%			
USACE Erosion Survey	0.01		0.01	0.24%			
<i>Unit Totals:</i>	0.32	0.00	0.32	7.79%	0.02	0.00	

Unit No. 02 Deer Creek		Overall Unit Rating	Total Unit Miles				
		U	1.50				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Encroachments	0.33		0.33	22.00%	0.01		
<i>Unit Totals:</i>	0.33	0.00	0.33	22.00%	0.01	0.00	

Unit No. 04 Elder Creek		Overall Unit Rating	Total Unit Miles				
		A	4.07				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.10		0.10	2.46%			
Encroachments	0.05		0.05	1.23%			
Slope Stability	0.16		0.16	3.93%			
<i>Unit Totals:</i>	0.31	0.00	0.31	7.62%	0.00	0.00	

Unit No. 05 Elder Creek		Overall Unit Rating	Total Unit Miles				
		M	3.96				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.62		0.62	15.66%			
Encroachments	0.10		0.10	2.53%	0.06		
Animal Control	0.01		0.01	0.25%			
Erosion / Bank Caving	0.01		0.01	0.25%			
<i>Unit Totals:</i>	0.74	0.00	0.74	18.69%	0.06	0.00	

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

Tehama County Flood Control and Water Conservation District

	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

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles
Unit No. 01 Deer Creek	Left	4.11

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/12/2009		10/12/2009	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By			Ernie Ohlin Tehama Co.	

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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(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

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.11	11/23/2009 11/23/2009	Bob Duffey

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	1.47	1.55	Earthen Levee	Encroachments	LS	C	Debris	39.969862 ° -122.006667 °	39.969388 ° -122.008142 °	1
2	2.50	2.58	Earthen Levee	Slope Stability	CR	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.967016 ° -122.024068 °	39.966455 ° -122.025531 °	7
3	2.72	2.76	Earthen Levee	Slope Stability	CR	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	39.965434 ° -122.027776 °	39.965180 ° -122.028331 °	8
4	2.79	2.79	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	39.964773 ° -122.029060 °	39.964773 ° -122.029060 °	915
5	2.84	2.84	Earthen Levee	Encroachments	WS	M	Tree or limb	39.964387 ° -122.029733 °	39.964387 ° -122.029733 °	914
6	2.85	2.85	Earthen Levee	Encroachments	LS	M	Tree or limb	39.964293 ° -122.029725 °	39.964293 ° -122.029725 °	3
7	3.00	3.00	Supplemental	USACE Erosion Survey	LS	M	Inspector Comments: tree hazards, slumping	39.962907 ° -122.031626 °	39.962907 ° -122.031626 °	913
8	3.64	3.64	Earthen Levee	Encroachments	CR	PO	Fences	39.945249 ° -122.053720 °	39.945249 ° -122.053720 °	9
9	3.74	3.74	Earthen Levee	Encroachments	CR	PO	Fences	39.944432 ° -122.054029 °	39.944432 ° -122.054029 °	10
10	3.79	3.79	Earthen Levee	Encroachments	LS	M	Prunings	39.944135 ° -122.054788 °	39.944135 ° -122.054788 °	5
11	3.96	4.10	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	39.942393 ° -122.056893 °	39.940958 ° -122.058852 °	11
12	3.99	3.99	Earthen Levee	Encroachments	LS	M	Prunings	39.941922 ° -122.057228 °	39.941910 ° -122.057238 °	6

<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

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles
Unit No. 02 Deer Creek	Right	1.50

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/12/2009		10/12/2009	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By			Ernie Ohlin Tehama Co.	

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.50	11/23/2009 11/23/2009	Bob Duffey

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.31	0.31	Earthen Levee	Encroachments	LS	M	Debris	39.970305 ° -122.014465 °	39.970305 ° -122.014465 °	2
2	0.36	0.36	Earthen Levee	Encroachments	LS	PO	Buildings	39.970117 ° -122.015365 °	39.970117 ° -122.015365 °	7
3	0.74	0.74	Earthen Levee	Encroachments	LS	M	Material	39.968832 ° -122.021802 °	39.968832 ° -122.021802 °	3
4	0.84	0.84	Earthen Levee	Encroachments	LS	M	Material	39.968557 ° -122.023477 °	39.968557 ° -122.023477 °	4
5	1.01	1.30	Earthen Levee	Encroachments	LS	M	Material	39.967177 ° -122.026250 °	39.964953 ° -122.030640 °	5
6	1.30	1.30	Earthen Levee	Encroachments	WS	M	Firewood	39.964883 ° -122.030655 °	39.964883 ° -122.030655 °	6

* 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**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Tehama County Flood Control and Water Conservation District

Waterway		Bank	Unit Miles
Unit No. 04 Elder Creek		Left	4.07

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/12/2009		10/12/2009	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By			Ernie Ohlin Tehama Co.	

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Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek				Left	4.07	11/23/2009 11/23/2009	Bob Duffey

LM/R No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.08	0.11	Earthen Levee	Encroachments	LS	M	Firewood	40.051737 ° -122.187700 °	40.051720 ° -122.187103 °	1
2	0.65	0.65	Earthen Levee	Encroachments	LS	M	Garbage	40.051673 ° -122.177185 °	40.051673 ° -122.177185 °	2
3	1.60	1.71	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	40.052607 ° -122.161418 °	40.053558 ° -122.159903 °	3
4	2.82	2.85	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	40.055033 ° -122.141457 °	40.055595 ° -122.141203 °	916
5	2.84	2.84	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	40.055584 ° -122.141332 °	40.055584 ° -122.141332 °	19
6	3.03	3.03	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	40.056388 ° -122.139168 °	40.056388 ° -122.139168 °	10
7	3.34	3.34	Earthen Levee	Encroachments	LS	C	Garbage	40.057318 ° -122.134292 °	40.057318 ° -122.134292 °	915
8	3.36	3.46	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	40.057267 ° -122.133947 °	40.055840 ° -122.133313 °	12
9	3.67	3.67	Earthen Levee	Encroachments	LS	M	Prunings	40.055666 ° -122.129712 °	40.055666 ° -122.129712 °	20
10	3.71	3.80	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	40.055868 ° -122.128948 °	40.055148 ° -122.127718 °	14
11	3.78	3.84	Supplemental	USACE Erosion Survey	LS	C	Inspector Comments: none	40.055339 ° -122.127894 °	40.054704 ° -122.127213 °	914

<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

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles
Unit No. 05 Elder Creek	Right	3.96

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	5/12/2009		10/12/2009	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By			Ernie Ohlin Tehama Co.	

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.96	11/23/2009 11/23/2009	Bob Duffey

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	2.57	2.57	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	40.051675 ° -122.148122 °	40.051675 ° -122.148122 °	8
2	2.70	2.76	Earthen Levee	Encroachments	LS	PO	Landscaping	40.051778 ° -122.145745 °	40.052243 ° -122.144825 °	2
3	2.97	3.07	Earthen Levee	Encroachments	WS	M	Prunings	40.054162 ° -122.142298 °	40.054725 ° -122.140552 °	3
4	3.13	3.13	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	40.055632 ° -122.138910 °	40.055607 ° -122.138868 °	11
5	3.37	3.84	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	40.056831 ° -122.136365 °	40.054862 ° -122.129279 °	9
6	3.45	3.45	Earthen Levee	Erosion / Bank Caving	LS	M	Schedule repair of erosion site prior to the next inspection.	40.056727 ° -122.134888 °	40.056727 ° -122.134888 °	7
7	3.77	3.91	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	40.056922 ° -122.136365 °	40.054562 ° -122.128345 °	10

* 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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