

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Spring 2010 Levee Inspection Results**

Brannan Andrus Levee Maintenance District

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

** 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

Spring 2010 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough			Right	6.02
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/27/2010 - 4/27/2010			
DWR Inspector	Richard Willoughby			
Accompanied By	Gil Labrie DCC Engineering			

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 - Spring 2010

Brannan Andrus Levee Maintenance District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Georgiana Slough						Right	6.02	04/27/2010 04/27/2010	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	6.02	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	38.186441 ° -121.562644 °	38.186441 ° -121.562644 °	3
2	0.00	6.02	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	38.186441 ° -121.562644 °	38.186441 ° -121.562644 °	4
3	2.25	2.25	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.163460 ° -121.584406 °	38.163460 ° -121.584406 °	6
4	2.29	2.34	Earthen Levee	Encroachments	LS	PO	Landscaping	38.162918 ° -121.584721 °	38.162322 ° -121.585081 °	36
5	2.36	2.36	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	38.162004 ° -121.585229 °	38.162004 ° -121.585229 °	7
6	2.38	2.46	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.161731 ° -121.585352 °	38.160638 ° -121.585845 °	8
7	3.62	3.62	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.151744 ° -121.596425 °	38.151744 ° -121.596425 °	9
8	3.93	3.93	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.148379 ° -121.599970 °	38.148379 ° -121.599970 °	10
9	3.93	3.97	Earthen Levee	Encroachments	LS	PO	Landscaping	38.148318 ° -121.599947 °	38.147898 ° -121.600347 °	11
10	4.18	4.20	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.145094 ° -121.601585 °	38.144817 ° -121.601477 °	12
11	4.25	4.28	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.144134 ° -121.601177 °	38.143747 ° -121.600924 °	13
12	4.84	4.84	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.136707 ° -121.595856 °	38.136707 ° -121.595856 °	1
13	4.98	4.98	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	38.135158 ° -121.594198 °	38.135158 ° -121.594198 °	14
14	5.11	5.11	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	38.133759 ° -121.592598 °	38.133759 ° -121.592598 °	15
15	5.17	5.17	Earthen Levee	Encroachments	WS	C	Landscaping	38.133187 ° -121.591952 °	38.133187 ° -121.591952 °	5
16	5.25	5.25	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.132238 ° -121.590897 °	38.132238 ° -121.590897 °	16
17	5.35	5.35	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.131119 ° -121.589730 °	38.131119 ° -121.589730 °	2

*** 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
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Brannan Andrus Levee Maintenance District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough						Right	6.02	04/27/2010 04/27/2010	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	5.79	5.81	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.129550 ° -121.582517 °	38.129599 ° -121.582155 °	17

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2010 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway				Bank	Unit Miles
Unit No. 02 Sacramento River				Left	13.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)	
Unit Maintenance Rating (Fall Only)					
Date of Inspection	4/28/2010 - 4/28/2010				
DWR Inspector	Richard Willoughby				
Accompanied By	Andy Ginnianni BALMD				
	Gil Labrie DCC Engineering				

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- ☐ 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

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Brannan Andrus Levee Maintenance District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Sacramento River						Left	13.30	04/28/2010 04/28/2010	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.67	0.67	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.187486 ° -121.578783 °	38.187486 ° -121.578783 °	1
2	0.78	0.83	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.186535 ° -121.580395 °	38.186103 ° -121.581127 °	2
3	0.81	0.83	Earthen Levee	Encroachments	LS	PO	Landscaping	38.186455 ° -121.580712 °	38.186215 ° -121.581060 °	8 Y
4	1.64	1.64	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.176486 ° -121.589445 °	38.176486 ° -121.589445 °	3
5	1.84	1.84	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.173905 ° -121.591082 °	38.173905 ° -121.591082 °	4
6	1.91	1.95	Earthen Levee	Encroachments	LS	CO	Landscaping	38.173120 ° -121.591505 °	38.172598 ° -121.591853 °	12 Y
7	2.66	2.74	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1:1 slope, tree hazards, clays and silts, 3.81 ft/s [2009 SiteID:SAC_18-0_L]	38.165367 ° -121.600517 °	38.164747 ° -121.601844 °	17 Y
8	3.17	3.17	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	38.162638 ° -121.609068 °	38.162638 ° -121.609068 °	5
9	3.20	3.20	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	38.162643 ° -121.609616 °	38.162643 ° -121.609616 °	6
10	3.22	3.22	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.162609 ° -121.609979 °	38.162609 ° -121.609979 °	7
11	3.38	3.57	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, vertical slope, tension cracks, tree hazards, holes and slumping, silts, 3.43 ft/s [2009 SiteID:SAC_17-2_L]	38.162467 ° -121.612806 °	38.162858 ° -121.616256 °	18 Y
12	3.53	3.60	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.162590 ° -121.615345 °	38.162728 ° -121.616622 °	22
13	3.63	3.74	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, vertical slope, tension cracks, tree hazards, holes and slumping, silts, 3.22 ft/s [2009 SiteID:SAC_16-8_L]	38.163022 ° -121.617317 °	38.163333 ° -121.619311 °	19 Y
14	4.04	4.15	Earthen Levee	Encroachments	LS	PO	Landscaping	38.164498 ° -121.624343 °	38.165167 ° -121.626273 °	59
15	5.19	5.35	Earthen Levee	Trim / Thin Trees	CR	M	Trim trees to at least five feet above ground level.	38.171455 ° -121.643229 °	38.171862 ° -121.645958 °	9
16	5.59	5.59	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.172019 ° -121.650327 °	38.172019 ° -121.650327 °	10

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Brannan Andrus Levee Maintenance District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Sacramento River						Left	13.30	04/28/2010 04/28/2010	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	5.66	5.70	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.172308 ° -121.651552 °	38.172497 ° -121.652243 °	11
18	5.68	5.71	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.172388 ° -121.651892 °	38.172512 ° -121.652322 °	36
19	5.70	5.72	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, 1:1 slope, tension cracks and slumping, sands and cobbles, 2.82 ft/s [2009 SiteID:SAC_15-0_L]	38.172631 ° -121.652144 °	38.172733 ° -121.652500 °	20 Y
20	5.76	5.78	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.172748 ° -121.653137 °	38.172873 ° -121.653553 °	37
21	5.82	6.15	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.173130 ° -121.654285 °	38.174559 ° -121.659867 °	13
22	5.92	5.92	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.173620 ° -121.656002 °	38.173620 ° -121.656002 °	58
23	6.35	6.38	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.173586 ° -121.663297 °	38.173391 ° -121.663786 °	14
24	6.82	6.82	Earthen Levee	Encroachments	LS	CO	Fences	38.169008 ° -121.669420 °	38.169008 ° -121.669420 °	42 Y
25	8.35	8.71	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.150112 ° -121.682305 °	38.144977 ° -121.683345 °	44
26	8.99	9.21	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, 1:1 slope, tree hazards, holes, and slumping, clays and silts, 6.8 ft/s [2009 SiteID:SAC_11-2_L]	38.138169 ° -121.686606 °	38.141403 ° -121.685450 °	21 Y
27	9.42	9.42	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.135106 ° -121.686065 °	38.135106 ° -121.686065 °	15
28	9.63	9.74	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.132093 ° -121.686184 °	38.130558 ° -121.686694 °	16
29	9.70	9.97	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1:1 slope, no stability issues, clays and silts, 7.05 ft/s [2009 SiteID:SAC_10-8_L]	38.131386 ° -121.687347 °	38.127750 ° -121.688806 °	23 Y

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**Flood Control Project Maintenance
Levee Inspections**

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Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landside slope blocking view of slope from LM .81 to 0.83

richard_s_20100505_001.jpg



Levee Mile Report Line	6
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landside slope blocking view of slope from LM 1.91 to 1.95

richard_s_20100505_002.jpg



Levee Mile Report Line	7
Start Levee Mile	2.66
End Levee Mile	2.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, 1:1 slope, tree hazards, clays and silts, 3.81 ft/s [2009 SiteID:SAC_18-0_L]

USACE2009_SAC_18-0_L_2009_09_17-D3bP64_small.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	3.38
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, vertical slope, tension cracks, tree hazards, holes and slumping, silts, 3.43 ft/s [2009 SiteID:SAC_17-2_L]

USACE2009_SAC_17-2_L_2009_09_22-D7P30_small.JPG



Levee Mile Report Line	13
Start Levee Mile	3.63
End Levee Mile	3.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, vertical slope, tension cracks, tree hazards, holes and slumping, silts, 3.22 ft/s [2009 SiteID:SAC_16-8_L]

USACE2009_SAC_16-8_L_2009_09_17-D3bP67_small.JPG



Levee Mile Report Line	19
Start Levee Mile	5.70
End Levee Mile	5.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, 1:1 slope, tension cracks and slumping, sands and cobbles, 2.82 ft/s [2009 SiteID:SAC_15-0_L]

USACE2009_SAC_15-0_L_2009_09_22-D7P34_small.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	24
Start Levee Mile	6.82
End Levee Mile	6.82
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Brick wall on landside shoulder at LM 6.82	
richard_s_20100505_003.jpg	



Levee Mile Report Line	26
Start Levee Mile	8.99
End Levee Mile	9.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 1:1 slope, tree hazards, holes, and slumping, clays and silts, 6.8 ft/s [2009 SiteID:SAC_11-2_L]	
USACE2009_SAC_11-2_L_2009_09_18-D4P33_small.JPG	



Levee Mile Report Line	29
Start Levee Mile	9.70
End Levee Mile	9.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 1:1 slope, no stability issues, clays and silts, 7.05 ft/s [2009 SiteID:SAC_10-8_L]	
USACE2009_SAC_10-8_L_2009_09_18-D4P35_small.JPG	

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