

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

Sutter Maintenance Yard Maintenance Area 0005

	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 2011 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 01 Butte Creek 1			Left	15.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/21/2011 - 4/21/2011			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper Sutter Yard			

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 - Spring 2011

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Butte Creek 1						Left	15.29	04/21/2011 04/21/2011	Bob Duffey	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.58	0.58	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	39.690745 ° -121.777342 °	39.690745 ° -121.777342 °	903 Y
2	1.68	1.68	Earthen Levee	Encroachments	LS	M	Debris	39.675528 ° -121.778642 °	39.675528 ° -121.778642 °	1 Y
3	2.13	2.13	Earthen Levee	Repair Gates	CR	M		39.670112 ° -121.782012 °	39.670112 ° -121.782012 °	10
4	2.86	2.86	Earthen Levee	Encroachments	LS	M	Prunings	39.660124 ° -121.785136 °	39.660124 ° -121.785136 °	2 Y
5	3.12	3.12	Earthen Levee	Encroachments	LS	M	Prunings	39.656779 ° -121.787127 °	39.656779 ° -121.787127 °	3
6	3.27	3.27	Earthen Levee	Encroachments	LS	M	Prunings	39.654847 ° -121.787893 °	39.654847 ° -121.787893 °	4
7	9.66	9.69	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, vertical slope, no stability issues, sands and silts, 3.5 ft/s plus eddy currents [2009 SiteID:BTC_9-6_L]	39.574908 ° -121.807800 °	39.574875 ° -121.808108 °	7 Y
8	9.66	10.48	Earthen Levee	Encroachments	WS	PO	Agricultural Ditch	39.574837 ° -121.807913 °	39.567892 ° -121.819283 °	5 Y
9	12.00	13.83	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.551235 ° -121.837697 °	39.531462 ° -121.856165 °	6 Y

*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/21/2011 04/21/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.58
End Levee Mile	0.58
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the large elderberries along the L/S toe.

rduffey_s_20110426_276.jpg



Levee Mile Report Line	2
Start Levee Mile	1.68
End Levee Mile	1.68
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the removed garbage but construction supply on pallets.

rduffey_s_20110228_026.jpg



Levee Mile Report Line	4
Start Levee Mile	2.86
End Levee Mile	2.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the large pruning along the L/S toe.

rduffey_s_20110426_277.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/21/2011 04/21/2011	Bob Duffey

Levee Mile Report Line	7
Start Levee Mile	9.66
End Levee Mile	9.69
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, vertical slope, no stability issues, sands and silts, 3.5 ft/s plus eddy currents [2009 SiteID:BTC_9-6_L]	
rduffey_s_20110228_027.JPG	



Levee Mile Report Line	8
Start Levee Mile	9.66
End Levee Mile	10.48
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of the AG ditch along the L/S toe.	
rduffey_s_20110426_278.jpg	



Levee Mile Report Line	9
Start Levee Mile	12.00
End Levee Mile	13.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the AG ditch along the L/S toe.	
rduffey_s_20110426_279.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 02 Butte Creek 1			Right	16.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/21/2011 - 4/21/2011			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper Sutter Yard			

Check one:

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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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X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Butte Creek 1						Right	16.53	04/21/2011 04/21/2011	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	1.23	1.62	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.529933 ° -121.861563 °	39.534102 ° -121.856947 °	1 Y
2	1.89	1.89	Earthen Levee	Encroachments	LS	M	Garbage	39.536923 ° -121.853638 °	39.536923 ° -121.853638 °	4 Y
3	2.04	2.04	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.538617 ° -121.851862 °	39.538617 ° -121.851862 °	9
4	3.15	4.60	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.551780 ° -121.840507 °	39.567430 ° -121.823065 °	7 Y
5	4.86	4.86	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.570017 ° -121.819527 °	39.570017 ° -121.819527 °	10
6	6.52	6.52	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.588575 ° -121.800892 °	39.588588 ° -121.800865 °	8
7	7.38	7.38	Earthen Levee	Encroachments	LS	M	Prunings	39.599607 ° -121.793848 °	39.599607 ° -121.793848 °	11
8	7.86	7.86	Earthen Levee	Encroachments	LS	M	Prunings	39.605265 ° -121.788388 °	39.605265 ° -121.788388 °	2 Y
9	10.54	10.54	Earthen Levee	Encroachments	LS	M	Prunings	39.639018 ° -121.781458 °	39.639018 ° -121.781458 °	3
10	10.61	10.61	Earthen Levee	Encroachments	LS	M	Equipment	39.639967 ° -121.782152 °	39.639967 ° -121.782152 °	14
11	10.81	10.81	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	39.642447 ° -121.784105 °	39.642447 ° -121.784105 °	16
12	11.22	11.22	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	39.647400 ° -121.787825 °	39.647400 ° -121.787825 °	26
13	13.23	13.23	Earthen Levee	Encroachments	LS	M	Equipment	39.673956 ° -121.781278 °	39.673956 ° -121.781278 °	5
14	13.35	13.35	Earthen Levee	Encroachments	LS	C	Prunings	39.675379 ° -121.780309 °	39.675379 ° -121.780309 °	6
15	14.54	14.54	Earthen Levee	Encroachments	LS	CO	Buildings	39.691432 ° -121.778933 °	39.691432 ° -121.778933 °	25
16	15.96	15.96	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.711222 ° -121.778188 °	39.711222 ° -121.778188 °	12

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/21/2011 04/21/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	1.23
End Levee Mile	1.62
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the AG ditch along the L/S toe.	
rduffey_s_20110426_272.jpg	



Levee Mile Report Line	2
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the garbage along the L/S toe.	
rduffey_s_20110426_273.jpg	



Levee Mile Report Line	4
Start Levee Mile	3.15
End Levee Mile	4.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the AG ditch along the L/S toe.	
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Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/21/2011 04/21/2011	Bob Duffey

Levee Mile Report Line	8
Start Levee Mile	7.86
End Levee Mile	7.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the debris and garbage along the landside toe of the levee.	
rduffey_s_20110228_028.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 03 Little Chico Creek Diversion 1			Left	1.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/21/2011 - 4/21/2011			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper Sutter Yard			

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1						Left	1.50	04/21/2011 04/21/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.50	Earthen Levee	Vegetation	LS	A	Control annual grass and weeds on the levee slopes and easements.	39.724075 ° -121.780800 °	39.724075 ° -121.780800 °	1 Y

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Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1	Left	1.50	04/21/2011 04/21/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.50
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the Levee clean of vegetation.

rduffey_s_20110426_275.jpg



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