

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0011	Overall LMA Rating	Total LMA Miles						
Sacramento Maintenance Yard West Levee Yolo Bypass	A	9.33						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					3.53			
<i>Supplemental</i>								
USACE Erosion Survey	0.15		0.15	1.61%				
<i>LMA Totals:</i>	0.15	0.00	0.15	1.61%	3.53	0.00	0.00	0.00

Unit No. 01 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0011	A	2.72						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.84			
<i>Supplemental</i>								
USACE Erosion Survey	0.15		0.15	5.52%				
<i>Unit Totals:</i>	0.15	0.00	0.15	5.52%	0.84	0.00	0.00	0.00

Unit No. 02 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0011	A	1.52						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.93			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.93	0.00	0.00	0.00

Unit No. 03 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0011	A	1.48						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

Unit No. 04 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0011	A	3.61						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.76			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	1.76	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2012 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

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

** 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 2012 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 01 West Levee			Right	2.72
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/21/2012 - 03/21/2012		10/11/2012 - 10/11/2012	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Phil Carey Sacramento Maintenance		Phil Carey Sacramento Maintenance	
	Ted Skidgel Sac maint		Ted Skidgel Sac maint	

Summer & Winter Inspections

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DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

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<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee						Right	2.72	10/11/2012 10/11/2012	John Williamson
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS A Ma		°	°	9
DWR ID: DWR_ST0011_01_s_2012_9									
2			Earthen Levee	Emergency Supplies & Equipment	LS A Ma		°	°	10
DWR ID: DWR_ST0011_01_s_2012_10									
3			Earthen Levee	Flood Preparedness & Training	LS A Ma		°	°	11
DWR ID: DWR_ST0011_01_s_2012_11									
4	0.36	0.43	Earthen Levee	Encroachments	LS M En	DT : Ditch	38.755535 ° -121.664127 °	38.754512 ° -121.663907 °	1 Y
DWR ID: DWR_ST0011_01_s_2012_1									
5	0.93	1.63	Earthen Levee	Encroachments	LS M En	DT : Ditch	38.747888 ° -121.660202 °	38.737688 ° -121.660235 °	8 Y
DWR ID: DWR_ST0011_01_s_2012_8									
6	2.53	2.68	Supplemental	USACE Erosion Survey	WS M Ma	Inspector Comments: 2006 - Slow wave wash and general fluvial erosion of the toe area under river cobbles. Erosion is creating a scarp and cobble covered wave-cut bench. 2011 - Site appears better than it looked in 2006, but still eroding. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: YOL_2-6_R]	38.725505 ° -121.662041 °	38.724385 ° -121.664564 °	2
DWR ID:									
7	2.63	2.70	Earthen Levee	Encroachments	LS M En	DT : Ditch	38.724800 ° -121.663710 °	38.724230 ° -121.664873 °	4 Y
DWR ID: DWR_ST0011_01_s_2012_4									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.72	10/11/2012 10/11/2012	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.36
End Levee Mile	0.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The end of the agricultural ditch along the toe of the levee. Photo taken Fall 2011.

johngw_f_20120911_669.jpg



Levee Mile Report Line	4
Start Levee Mile	0.36
End Levee Mile	0.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments

This photo shows the agricultural ditch as it turns towards the levee toe. Photo taken Fall 2011.

johngw_f_20120911_670.jpg



Levee Mile Report Line	4
Start Levee Mile	0.36
End Levee Mile	0.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Photo taken spring 2012, agricultural ditch runs along toe of levee.

johngw_f_20120911_671.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.72	10/11/2012 10/11/2012	John Williamson

Levee Mile Report Line	5
Start Levee Mile	0.93
End Levee Mile	1.63
Location	Land Side
Category	Earthen Levee
Item	Encroachments

A photo of the agricultural ditch along the toe.
Photo taken fall 2011.

johngw_f_20120911_676.jpg



Levee Mile Report Line	5
Start Levee Mile	0.93
End Levee Mile	1.63
Location	Land Side
Category	Earthen Levee
Item	Encroachments

This is another view of the agricultural ditch along
the toe. Photo taken fall 2011.

johngw_f_20120911_677.jpg



Levee Mile Report Line	7
Start Levee Mile	2.63
End Levee Mile	2.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch running along toe landside. 3-7-
11

johngw_f_20120911_674.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 02 West Levee			Right	1.52
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/21/2012 - 03/21/2012		10/11/2012 - 10/11/2012	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Ted Skidgel Sac maint		Ted Skidgel Sac maint	

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 West Levee						Right	1.52	10/11/2012 10/11/2012	John Williamson	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.07	0.07	Earthen Levee	Encroachments	LS	M En	DE : Debris Inspector Comments: 36" concrete pipe at toe of levee	38.718087 ° -121.664462 °	38.718087 ° -121.664462 °	8 Y
DWR ID: DWR_ST0011_02_s_2012_8										
2	0.08	0.21	Earthen Levee	Encroachments	LS	M En	DT : Ditch	38.718005 ° -121.664496 °	38.716140 ° -121.665460 °	4 Y
DWR ID: DWR_ST0011_02_s_2012_4										
3	0.47	0.97	Earthen Levee	Encroachments	LS	M En	DT : Ditch	38.712813 ° -121.667349 °	38.706018 ° -121.670831 °	3 Y
DWR ID: DWR_ST0011_02_s_2012_3										
4	1.15	1.44	Earthen Levee	Encroachments	LS	M En	DT : Ditch	38.703681 ° -121.672090 °	38.699637 ° -121.674112 °	5 Y
DWR ID: DWR_ST0011_02_s_2012_5										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 West Levee	Right	1.52	10/11/2012 10/11/2012	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.07
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Photo taken spring 2012, concrete stand pipe laying at toe of levee.	
johngw_f_20120911_681.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.08
End Levee Mile	0.21
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The agricultural ditch is at the toe of the levee. Photo fall 2012.	
johngw_f_20121022_762.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.47
End Levee Mile	0.97
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The agricultural ditch is at the toe of the levee. Photo 2012.	
johngw_f_20121022_763.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 West Levee	Right	1.52	10/11/2012 10/11/2012	John Williamson

Levee Mile Report Line	4
Start Levee Mile	1.15
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The agricultural ditch is at the toe of the levee.
Photo fall 2012.

johngw_f_20121022_764.jpg

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 03 West Levee			Right	1.48
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/21/2012 - 03/21/2012		10/11/2012 - 10/11/2012	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Ted Skidgel Sac maint		Ted Skidgel Sac maint	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 West Levee	Right	1.48	10/11/2012 10/11/2012	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.01	1.41	Earthen Levee	Vegetation	LS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	38.698405 ° -121.674087 °		3
						Ma		38.698405 ° -121.674087 °		Y
								DWR ID: DWR_ST0011_03_f_2012_3		
2	0.01	1.41	Earthen Levee	Vegetation	WS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	38.698405 ° -121.674087 °		4
						Ma		38.698405 ° -121.674087 °		Y
								DWR ID: DWR_ST0011_03_f_2012_4		

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 West Levee	Right	1.48	10/11/2012 10/11/2012	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The levee slope complies with USACE standards.

johngw_f_20121029_825.jpg



Levee Mile Report Line	2
Start Levee Mile	0.01
End Levee Mile	1.41
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The levee slope complies with USACE standards.

johngw_f_20121029_824.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 04 West Levee			Right	3.61
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/22/2012 - 03/22/2012		10/31/2012 - 10/31/2012	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Casey Lund Sac maint.		Casey Lund Sac maint.	

Summer & Winter Inspections

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/31/2012 10/31/2012	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	3.61	Earthen Levee	Vegetation	WS Ma	A	V1 : Control annual grass and weeds on the levee slopes and easements.	38.574328 ° -121.638743 °	38.523723 ° -121.631458 °	2 Y
DWR ID: DWR_ST0011_04_s_2012_2										
2	0.02	3.61	Earthen Levee	Vegetation	LS Ma	A	V1 : Control annual grass and weeds on the levee slopes and easements.	38.574333 ° -121.638745 °	38.523727 ° -121.631450 °	1 Y
DWR ID: DWR_ST0011_04_s_2012_1										
3	1.78	2.70	Earthen Levee	Encroachments	LS En	M	DT : Ditch	38.550387 ° -121.631257 °	38.536958 ° -121.631450 °	3 Y
DWR ID: DWR_ST0011_04_s_2012_3										
4	2.76	3.60	Earthen Levee	Encroachments	LS En	M	DT : Ditch	38.536100 ° -121.631425 °	38.523807 ° -121.631535 °	4 Y
DWR ID: DWR_ST0011_04_s_2012_4										

*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/31/2012 10/31/2012	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	3.61
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Photo taken spring 2012, both landside and waterside slopes are mostly grasses.

johngw_f_20120911_686.jpg



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	3.61
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The slope complies with standards mostly grasses. Fall 2012

johngw_f_20121105_833.jpg



Levee Mile Report Line	3
Start Levee Mile	1.78
End Levee Mile	2.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The argricultural ditch runs along the landside toe. Fall 2011

johngw_f_20120911_687.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/31/2012 10/31/2012	John Williamson

Levee Mile Report Line	3
Start Levee Mile	1.78
End Levee Mile	2.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Photo taken spring 2012, agricultural ditch runs along toe of levee.	
johngw_f_20120911_688.jpg	



Levee Mile Report Line	4
Start Levee Mile	2.76
End Levee Mile	3.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The agricultural ditch runs along the toe of the landside. Fall 2011	
johngw_f_20120911_689.jpg	



Levee Mile Report Line	4
Start Levee Mile	2.76
End Levee Mile	3.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
This view is looking to the north. Fall 2011	
johngw_f_20120911_690.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/31/2012 10/31/2012	John Williamson

Levee Mile Report Line	4
Start Levee Mile	2.76
End Levee Mile	3.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Photo taken spring 2012, agricultural ditch runs along toe of levee.	
johngw_f_20120911_691.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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