

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2015 Levee Inspection Results****Sacramento Maintenance Yard Maintenance Area 0004**

	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. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sacramento Maintenance Yard Maintenance Area 0004

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	3.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/15/2015 - 04/15/2015			
DWR Inspector	Jai Lor			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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.

The LMA should submit this information to DWR using the LMA web application tool available at:

<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 - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0004_01_s _ 2013_9				
Action/Comments					
Inspector Comments: The Sacramento Maintenance Yard has copies of their O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0004_01_s _ 2013_10				
Action/Comments					
Inspector Comments: The Sacramento Maintenance Yard has a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0004_01_s _ 2013_11				
Action/Comments					
Inspector Comments: The Sacramento Maintenance Yard has a written flood response plan and flood response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	0.00	Rating **	A/W	Issue No.	1
LM End	3.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				°
					°
DWR ID	DWR_MA0004_01_f_2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_MA0004_298_1_20150417_00014.jpg



View of the vegetation on the landward side of the levee looking downstream. Spring 2015.

LM Start	0.19	Rating **	U	Issue No.	4
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.596797 °	38.596797 °
				-121.544192 °	-121.544192 °
DWR ID	DWR_MA0004_01_s_2015_4				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : SP_2015_MA0004_298_4_20150417_00015.jpg



View of the sinkhole on the landward side of the levee looking downstream. Spring 2015.

LM Start	0.19	Rating **	U	Issue No.	4 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_MA0004_298_4_20150417_00016.jpg



A close-up shot of the sinkhole on the landward side of the levee. Spring 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	0.24	Rating **	U	Issue No.	2
LM End	0.24	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.597193 °	38.597193 °
				-121.543421 °	-121.543421 °
DWR ID	DWR_MA0004_01_s _ 2012_2				
Action/Comments					
Fence					
Inspector Comments: This is the USACE yard and the chain link fence crosses the levee. The fence runs the length of the yard on the crown.					

Photo 1 of 2 : SP_2015_MA0004_298_2_20150326_00003.jpg



The fence blocks access to the waterside levee slope. Fall 2013

Photo 2 of 2 : SP_2015_MA0004_298_2_20150326_00004.jpg



The fence blocks the crown of the levee. Fall 2013

LM Start	1.03	Rating **	M	Issue No.	5
LM End	1.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.602373 °	38.602373 °
				-121.531265 °	-121.531265 °
DWR ID	DWR_MA0004_01_s _ 2015_5				
Action/Comments					
Firewood					

Photo 1 of 1 : SP_2015_MA0004_298_5_20150417_00017.jpg



View of the firewood on the landward side of the levee looking downstream. Spring 2015.

* Location LS : Land Side N/A : Not Applicable 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	1.20	Rating **	M	Issue No.	6
LM End	1.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.602760 °	38.602760 °
				-121.528127 °	-121.528127 °
DWR ID	DWR_MA0004_01_s _ 2015_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	1.34	Rating **	A/W	Issue No.	7
LM End	1.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.602756 °	38.600449 °
				-121.525618 °	-121.514459 °
DWR ID	DWR_MA0004_01_s _ 2012_7				
Action/Comments					
Landscaping					
Inspector Comments: The Rivers housing development					

Photo 1 of 2 : SP_2015_MA0004_298_7_20150326_00006.jpg



The landside levee slope is landscaped. Fall 2013

LM Start	1.34	Rating **	A/W	Issue No.	7 (cont)
LM End	1.97	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_MA0004_298_7_20150326_00007.jpg



The landside of the levee slope is landscaped. Fall 2013

* Location LS : Land Side N/A : Not Applicable 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	1.35	Rating **	A/W	Issue No.	8
LM End	1.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.602764 °	38.602596 °
				-121.525319 °	-121.522439 °
DWR ID	DWR_MA0004_01_s _ 2012_8				
Action/Comments					
Building					
Inspector Comments: The Rivers housing development houses on crown of levee waterside					

Photo 1 of 1 : SP_2015_MA0004_298_8_20150326_00008.jpg



Houses have been built on the crown of the levee. Fall 2013

LM Start	2.02	Rating **	M	Issue No.	14
LM End	2.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.599834 °	38.597531 °
				-121.513994 °	-121.513147 °
DWR ID	DWR_MA0004_01_s _ 2012_14				
Action/Comments					
Fence					
Inspector Comments: A fence runs along the toe of the landside levee					

Photo 1 of 1 : SP_2015_MA0004_298_14_20150326_00011.jpg



The fence runs along the toe and is within the easement. Fall 2013

LM Start	2.08	Rating **	U	Issue No.	19
LM End	2.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.599133 °	38.599133 °
				-121.513384 °	-121.513384 °
DWR ID	DWR_MA0004_01_s _ 2014_19				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Looks like it may be a old squirrel hole. Burrow goes thru the shoulder and breaks out on levee slope.					

Photo 1 of 2 : SP_2015_MA0004_298_19_20150326_00012.jpg



The exit side of the erosion from shoulder. Spring 2014

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	2.08	Rating **	U	Issue No.	19 (cont)	
LM End	2.08	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.599133 °	38.599133 °	
				-121.513384 °	-121.513384 °	
DWR ID	DWR_MA0004_01_s_2014_19					
Action/Comments						
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Looks like it may be a old squirrel hole. Burrow goes thru the shoulder and breaks out on levee slope.						

Photo 2 of 2 : SP_2015_MA0004_298_19_20150326_00013.jpg



Erosion on levee shoulder entrance side on crown. Spring 2014

LM Start	2.18	Rating **	M	Issue No.	13
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.597967 °	38.597967 °
				-121.512892 °	-121.512892 °
DWR ID	DWR_MA0004_01_s_2015_13				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : SP_2015_MA0004_298_13_20150417_00018.jpg



View of the erosion on the landward side of the levee looking downstream. Spring 2015.

LM Start	2.28	Rating **	M	Issue No.	15
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.596557 °	38.596557 °
				-121.513159 °	-121.513159 °
DWR ID	DWR_MA0004_01_s_2015_15				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 1 : SP_2015_MA0004_298_15_20150417_00019.jpg



View of the slope stability on the landward side of the levee looking downstream. Spring 2015.

* Location LS : Land Side N/A : Not Applicable 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	2.67	Rating **	M	Issue No.	17
LM End	2.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.590910 °	38.590910 °
				-121.510830 °	-121.510830 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41443 DS_ID:19405 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Found during the field survey, not listed in the desk study. FIELD_STRUCT_DESC: A 6-inch sewer line from the public facility of boat launching area. No other details available. FS Date: 09/12/2012					

No Photos

LM Start	2.75	Rating **	M	Issue No.	18
LM End	2.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.590140 °	38.590140 °
				-121.509750 °	-121.509750 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41485 DS_ID:19406 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Found during field survey. Not listed in the desk study. FIELD_STRUCT_DESC: 1 of 2. A 3-inch wrapped GI water pipe(of 3-inch and 5-inch water pipe) daylight in a metal cage box. A valve box for the pipe is also found. FS Date: 09/12/2012					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	2.75	Rating **	M	Issue No.	20
LM End	2.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.590130 °	38.590130 °
				-121.508740 °	-121.508740 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41486					
DS_ID:19407					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Found during field survey, not listed in the desk study.					
FIELD_STRUCT_DESC: 2 of 2. A 5-inch wrapped GI water pipe(of 3-inch and 5-inch water pipe) daylight in a metal cage box. A valve box for the pipe is also found.					
FS Date: 09/12/2012					

No Photos

LM Start	2.90	Rating **	M	Issue No.	21
LM End	2.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.588688 °	38.588688 °
				-121.507910 °	-121.507910 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41557 DS_ID:18883 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned 7-inch pipe found. Needs to be abandoned properly. FIELD_STRUCT_DESC: 2 of 4. An abandoned 7-inch pipe of one 3-inch, two 7-inch and one 10-inch pipes through the levee 18.6 feet below the crown. Unable to locate. Pipes exposed and extend 10 feet from bank. O&M Manual Sac 116, August 1955, Revision Year 2011. FS Date: 09/12/2012					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	3.01	Rating **	M	Issue No.	16
LM End	3.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.587532 °	38.587532 °
				-121.507980 °	-121.507980 °
DWR ID	DWR_MA0004_01_s_2015_16				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_MA0004_298_16_20150417_00020.jpg



View of the tree branches on the landward side of the levee looking downstream. Spring 2015.

LM Start	3.03	Rating **	M	Issue No.	3
LM End	3.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.587135 °	38.587135 °
				-121.508093 °	-121.508093 °
DWR ID	DWR_MA0004_01_f_2012_3				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_MA0004_298_3_20150326_00005.jpg



A large rodent hole on the landside levee slope. Fall 2013

LM Start	3.14	Rating **	A/W	Issue No.	12
LM End	3.40	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.585642 °	38.534710 °
				-121.508385 °	-121.517390 °
DWR ID	DWR_MA0004_01_s_2012_12				
Action/Comments					
Landscaping					
Inspector Comments: West Sacramento's River walk runs from Tower Bridge to the I Street bridge.					

Photo 1 of 2 : SP_2015_MA0004_298_12_20150326_00009.jpg



The Riverwalk is part of the landscape on the levee. Fall 2013

* Location LS : Land Side N/A : Not Applicable 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/15/2015 04/15/2015	Jai Lor

LM Start	3.14	Rating **	A/W	Issue No.	12 (cont)
LM End	3.40	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.585642 °	38.534710 °
				-121.508385 °	-121.517390 °
DWR ID	DWR_MA0004_01_s _ 2012_12				
Action/Comments					
Landscaping					
Inspector Comments: West Sacramento's River walk runs from Tower Bridge to the I Street bridge.					

Photo 2 of 2 : SP_2015_MA0004_298_12_20150326_00010.jpg



Landscaping and buildings are on the crown and waterside levee. Fall 2013

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