

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2014 Levee Inspection Results**

**Sacramento Maintenance Yard Willow Slough Bypass**

	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 2014 Levee Inspection Results**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway		Bank	Unit Miles	
Unit No. 01 Willow Slough Bypass or North Levee		Left	5.09	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/15/2014 - 04/15/2014			
DWR Inspector	John Williamson			
Accompanied By	Casey Lund Sacramento Maintenance Yard			

**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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.09	04/15/2014 04/15/2014	John Williamson

LM Start	Rating **	A	Issue No.	6
LM End	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude	
			Start	End
Item	Operations & Maintenance Manuals		°	°
			°	°
DWR ID	DWR_ST0012_01_s_2013_6			
Action/Comments				

No Photos

LM Start	Rating **	A	Issue No.	7
LM End	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude	
			Start	End
Item	Emergency Supplies & Equipment		°	°
			°	°
DWR ID	DWR_ST0012_01_s_2013_7			
Action/Comments				

No Photos

LM Start	Rating **	A	Issue No.	8
LM End	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude	
			Start	End
Item	Flood Preparedness & Training		°	°
			°	°
DWR ID	DWR_ST0012_01_s_2013_8			
Action/Comments				

No Photos

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

**Levee Inspection Report By Mile - Spring 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee		Left	5.09	04/15/2014 04/15/2014	John Williamson

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>5</b>
LM End	<b>5.05</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.590774 °	38.599988 °	
			-121.665546 °	-121.752813 °	
DWR ID	DWR_ST0012_01_s_2014_5				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw\_s\_20140421\_837.jpg



Tall grasses partially blocks visibility. Spring 2014

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>0.15</b>	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.590742 °	38.590716 °	
			-121.665767 °	-121.668203 °	
DWR ID	DWR_ST0012_01_s_2012_1				
Action/Comments					
Landscaping Inspector Comments: This is the treatment plant's landscaping and chain link fence.					

Photo 1 of 2 : johngw\_s\_20140414\_703.jpg



The treatment plant's landscape and fence. This runs along the crown and toe of the levee.

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>0.15</b>	Issue Type +	En	Location *	CR

Photo 2 of 2 : johngw\_s\_20140414\_704.jpg



Photo taken spring 2012, the treatment plants landscaping.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.09	04/15/2014 04/15/2014	John Williamson

LM Start	<b>0.07</b>	Rating **	M	Issue No.	<b>10</b>
LM End	<b>0.21</b>	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Cracking		38.590724 °	38.590663 °	
			-121.666749 °	-121.669190 °	
DWR ID	DWR_ST0012_01_f_2012_10				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

Photo 1 of 2 : johngw\_s\_20140414\_707.jpg



There is still cracking and sloughing on the waterside crown. Attempts to fill in the cracks all along the roadway have been done.

LM Start	<b>0.07</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>0.21</b>	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : johngw\_s\_20140421\_839.jpg



The county road is sloughing off. There is ongoing attempts to repair the shoulders. Spring 2014

LM Start	<b>0.15</b>	Rating **	M	Issue No.	<b>11</b>
LM End	<b>1.45</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.590705 °	38.590331 °	
			-121.668146 °	-121.692046 °	
DWR ID	DWR_ST0012_01_s_2014_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw\_s\_20140421\_838.jpg



Tall grasses partially block visibility. Spring 2014

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.09	04/15/2014 04/15/2014	John Williamson

LM Start	<b>3.56</b>	Rating **	M	Issue No.	<b>12</b>
LM End	<b>5.05</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.590689 °	38.599988 °	
			-121.730865 °	-121.752813 °	
DWR ID	DWR_ST0012_01_s_2014_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw\_s\_20140421\_840.jpg



Tall grasses partially blocks visibility. Spring 2014

LM Start	<b>4.32</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>4.32</b>	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.598840 °	38.598840 °	
			-121.739600 °	-121.739600 °	
DWR ID	DWR_ST0012_01_s_2014_2				
Action/Comments					
Inspector Comments: FS_ID:29303 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: PG&E may provide further info FIELD_STRUCT_DESC: 8-inch gas main pipeline through both levees.(PG&E). O&M manual 120, revision Dec 2010. FS Date: 5/28/2013 2:36:00 PM					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.09	04/15/2014 04/15/2014	John Williamson

LM Start	<b>4.32</b>	Rating **	M	Issue No.	<b>4</b>
LM End	<b>4.63</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.598876 °	38.599845 °	
			-121.739640 °	-121.745007 °	
DWR ID	DWR_ST0012_01_s_2012_4				
Action/Comments					
Ditch					

Photo 1 of 1 : johngw\_s\_20140414\_705.jpg



The agricultural ditch runs along the toe of the levee. Fall 2011

LM Start	<b>5.09</b>	Rating **	M	Issue No.	<b>3</b>
LM End	<b>5.09</b>	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.599940 °	38.599940 °	
			-121.753530 °	-121.753530 °	
DWR ID	DWR_ST0012_01_s_2014_3				
Action/Comments					
Inspector Comments: FS_ID:13969 EP_NO: 15811 Repair Type: Crossing Status: UCIP Comments: FIELD_STRUCT_DESC: Replace existing 4-inch diameter natural gas pipeline with an 8-inch diameter natural gas pipeline under the channel and within both banks of Willow Slough. Application No. 15811. FS Date: 5/28/2013 2:38:30 PM					

No Photos

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

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.37

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/15/2014 - 04/15/2014			
DWR Inspector	John Williamson			
Accompanied By	Casey Lund Sacramento Maintenance Yard			

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

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*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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee		Right	7.37	04/15/2014 04/15/2014	John Williamson

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>0.00</b>	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.599100 °	38.599100 °	
			-121.753260 °	-121.753260 °	
DWR ID	DWR_ST0012_02_s_2014_1				
Action/Comments					
Inspector Comments: FS_ID:13863 EP_NO: 15811 Repair Type: Crossing Status: UCIP Comments: Need to contact owner of pipe to place indicators on levee FIELD_STRUCT_DESC: Replace existing 4-inch diameter natural gas pipeline with an 8-inch diameter natural gas pipeline under the channel and within both banks of Willow Slough. Application No. 15811. FS Date: 5/24/2013					

No Photos

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>4</b>
LM End	<b>7.37</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.599142 °	38.574613 °	
			-121.752997 °	-121.638946 °	
DWR ID	DWR_ST0012_02_s_2014_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw\_s\_20140421\_841.jpg



Tall grasses partially blocks visibility. Spring 2014

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee		Right	7.37	04/15/2014 04/15/2014	John Williamson

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>6</b>
LM End	<b>7.37</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.599142 °	38.574613 °	
			-121.752997 °	-121.638946 °	
DWR ID	DWR_ST0012_02_s_2014_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw\_s\_20140421\_842.jpg



Tall grasses partially blocks visibility. Spring 2014

LM Start	<b>0.17</b>	Rating **	M	Issue No.	<b>160</b>
LM End	<b>0.17</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.599062 °	38.599062 °	
			-121.750156 °	-121.750156 °	
DWR ID	DWR_ST0012_02_f_2013_160				
Action/Comments					
Debris					

Photo 1 of 1 : johngw\_s\_20140414\_710.jpg



There is some pipe and concrete debris on the levee slope. Fall 2013

LM Start	<b>0.22</b>	Rating **	M	Issue No.	<b>7</b>
LM End	<b>0.48</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.598993 °	38.599047 °	
			-121.749130 °	-121.744366 °	
DWR ID	DWR_ST0012_02_s_2014_7				
Action/Comments					
Ditch					

Photo 1 of 1 : johngw\_s\_20140421\_843.jpg



Agricultural ditch run along landside toe. Spring 2014

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee		Right	7.37	04/15/2014 04/15/2014	John Williamson

LM Start	<b>1.71</b>	Rating **	M	Issue No.	<b>8</b>
LM End	<b>1.71</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.589966 °	38.589966 °	
			-121.727072 °	-121.727072 °	
DWR ID	DWR_ST0012_02_s_2012_8				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : johngw\_s\_20140414\_709.jpg



Erosion on the edge of the channel. Fall 2012

LM Start	<b>1.97</b>	Rating **	M	Issue No.	<b>5</b>
LM End	<b>1.97</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.589906 °	38.589906 °	
			-121.722218 °	-121.722218 °	
DWR ID	DWR_ST0012_02_s_2012_5				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : johngw\_s\_20140414\_708.jpg



Erosion on the edge of the channel. Fall 2012.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2014**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.37	04/15/2014 04/15/2014	John Williamson

LM Start	<b>4.23</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>4.23</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.589530 °	38.589530 °
				-121.680560 °	-121.680560 °
DWR ID	DWR_ST0012_02_s_2014_2				
Action/Comments					
Inspector Comments: FS_ID:13876 EP_NO: 10334 Repair Type: Crossing Status: UCIP Comments: Rodent activities on headwall is far from the levee. Inlet is across city of davis drainage ditch. Inlet was cleaned last fall. see picture FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.5 feet below the crown. Flap gate on the waterward end. (A.B.O. No. 10334 - Rhinehart). O&M manual 120, revision Dec 2010. FS Date: 5/24/2013					

No Photos

LM Start	<b>4.53</b>	Rating **	M	Issue No.	<b>3</b>
LM End	<b>4.53</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.589575 °	38.589575 °
				-121.674950 °	-121.674950 °
DWR ID	DWR_ST0012_02_s_2014_3				
Action/Comments					
Inspector Comments: FS_ID:13877 EP_NO: 10319 Repair Type: Crossing Status: UCIP Comments: Material removed from inlet last fall. Outlet cleared FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. (A.B.O. No. 10319 - Bell). O&M manual 120, revision Dec 2010. FS Date: 5/24/2013					

Photo 1 of 1 : UCIP\_931.jpg



Waterside view- pipe and flap gate.

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