

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	<b>31</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_ST0003_01_s_2013_31				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>32</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_ST0003_01_s_2013_32				
Action/Comments					
Inspector Comments: The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	<b>33</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_ST0003_01_s_2013_33				
Action/Comments					
Inspector Comments: The LMA has completed flood fight training in 2014.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>27</b>
LM End	<b>11.41</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.266315 °	39.265730 °
				-122.020682 °	-122.014925 °
DWR ID	DWR_ST0003_01_f_2014_27				
Action/Comments					
Inspector Comments: 2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2013: No observed changes. [2013 Site ID: SAC_151-0_R]					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_27\_20150310\_00011.jpg



USACE 2013 Photo #1

LM Start	<b>4.72</b>	Rating **	M	Issue No.	<b>15</b>
LM End	<b>4.72</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.213271 °	39.213271 °
				-121.991676 °	-121.991676 °
DWR ID	DWR_ST0003_01_s_2013_15				
Action/Comments					
Repair slope instability. Inspector Comments: The erosion needs to be repaired.					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_15\_20150406\_00022.jpg



View of the erosion along the waterside slope.

LM Start	<b>4.85</b>	Rating **	M	Issue No.	<b>18</b>
LM End	<b>4.86</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.214215 °	39.214232 °
				-121.993810 °	-121.993805 °
DWR ID	DWR_ST0003_01_s_2012_18				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>6.48</b>	Rating **	M	Issue No.	<b>21</b>
LM End	<b>6.49</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.224982 °	39.225013 °	
			-121.998600 °	-121.998585 °	
DWR ID	DWR_ST0003_01_s_2012_21				
Action/Comments					
Material					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_21\_20150310\_00009.jpg



View of the material & garbage along the toe.

LM Start	<b>6.78</b>	Rating **	U	Issue No.	<b>14</b>
LM End	<b>6.78</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.228535 °	39.228535 °	
			-121.998330 °	-121.998330 °	
DWR ID	DWR_ST0003_01_s_2015_14				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: The erosion along the waterside slope needs to be repaired.					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_14\_20150406\_00023.jpg



View of the erosion along the waterside slope.

LM Start	<b>10.36</b>	Rating **	M	Issue No.	<b>5</b>
LM End	<b>10.36</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.270503 °	39.270503 °	
			-122.001339 °	-122.001339 °	
DWR ID	DWR_ST0003_01_s_2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>11.51</b>	Rating **	M	Issue No.	<b>28</b>
LM End	<b>11.79</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID	DWR_ST0003_01_f_2014_28				
Action/Comments					
Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. 2013: No observed changes. [2013 Site ID: SAC_152-6_L]					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_28\_20150310\_00012.jpg



USACE 2013 Photo #1

LM Start	<b>11.85</b>	Rating **	M	Issue No.	<b>29</b>
LM End	<b>11.90</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.284568 °	39.285298 °
				-122.015690 °	-122.015208 °
DWR ID	DWR_ST0003_01_f_2014_29				
Action/Comments					
Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion. 2013: No observed changes. [2013 Site ID: SAC_152-8_L]					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_29\_20150310\_00013.jpg



USACE 2013 Photo #1

LM Start	<b>13.47</b>	Rating **	M	Issue No.	<b>9</b>
LM End	<b>13.66</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.307448 °	39.310231 °
				-122.013037 °	-122.012912 °
DWR ID	DWR_ST0003_01_s_2012_9				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_9\_20150310\_00003.jpg



View of the erosion along the W/S toe.

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

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Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>15.53</b>	Rating **	M	Issue No.	<b>55</b>
LM End	<b>15.53</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID	DWR_ST0003_01_f_2014_55				
Action/Comments					
Inspector Comments: 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour. 2013: No observed changes. [2013 Site ID: SAC_157-7_R]					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_55\_20150310\_00017.jpg



USACE 2013 Photo #1

LM Start	<b>16.21</b>	Rating **	A/W	Issue No.	<b>56</b>
LM End	<b>16.21</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.342948 °	39.342948 °
				-122.024263 °	-122.024263 °
DWR ID	DWR_ST0003_01_f_2014_56				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_56\_20150310\_00018.jpg



View of the rodent holes on the landside slope.

LM Start	<b>17.44</b>	Rating **	M	Issue No.	<b>57</b>
LM End	<b>17.44</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.351553 °	39.351553 °
				-122.009388 °	-122.009388 °
DWR ID	DWR_ST0003_01_f_2014_57				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_57\_20150310\_00019.jpg



View of the rodent holes on the landside slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>17.97</b>	Rating **	M	Issue No.	<b>10</b>
LM End	<b>18.05</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.358956 °	39.359565 °	
			-122.007492 °	-122.006219 °	
DWR ID	DWR_ST0003_01_s_2012_10				
Action/Comments					
Firewood					

No Photos

LM Start	<b>18.01</b>	Rating **	M	Issue No.	<b>16</b>
LM End	<b>18.15</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.359188 °	39.359980 °	
			-122.006878 °	-122.004517 °	
DWR ID	DWR_ST0003_01_s_2012_16				
Action/Comments					
Equipment					

Photo 1 of 1 : SP\_2015\_ST0003\_264\_16\_20150310\_00007.jpg



View of the equipment and trees next to the landside toe of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable 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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**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>0.02</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.232058 °	39.232058 °	
			-121.995514 °	-121.995514 °	
DWR ID	DWR_ST0003_02_s_2012_1				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_ST0003\_265\_1\_20150310\_00001.jpg



View of the elderberries along the landside toe of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>1.94</b>	Rating **	M	Issue No.	<b>10</b>
LM End	<b>1.94</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.244888 °	39.244888 °	
			-121.965595 °	-121.965595 °	
DWR ID	DWR_ST0003_03_s_2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_ST0003\_266\_10\_20150310\_00001.jpg



View of the elderberries along the landside toe of the levee.

LM Start	<b>2.13</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>2.13</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.244925 °	39.244925 °	
			-121.962072 °	-121.962072 °	
DWR ID	DWR_ST0003_03_s_2015_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_ST0003\_266\_2\_20150406\_00003.jpg



View of the elderberry along the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable 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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**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>0.10</b>	Rating **	A	Issue No.	<b>2</b>
LM End	<b>0.10</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.337787 °	39.337787 °
				-122.020380 °	-122.020380 °
DWR ID	DWR_ST0003_04_s_2015_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_ST0003\_267\_2\_20150310\_00001.jpg



View of an elderberry bush by the waterside toe.

LM Start	<b>0.10</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.10</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				
DWR ID	DWR_ST0003_04_s_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP\_2015\_ST0003\_267\_1\_20150406\_00002.jpg



View of the native grasses on both slopes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	03/11/2015 03/11/2015	Bob Duffey

LM Start	<b>0.77</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.77</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.340798 °	39.340798 °
				-122.009498 °	-122.009498 °
DWR ID	DWR_ST0003_05_s_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP\_2015\_ST0003\_268\_1\_20150406\_00001.jpg



View of the native grasses on both slopes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable 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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