

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	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			°	°
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			°	°
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			°	°
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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Unit No. 01 Sacramento River	Left	19.85	09/16/2015 09/16/2015	Bob Duffey

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

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 : FA\_2015\_ST0003\_264\_14\_20150910\_00005.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. Inspector Comments: The Elderberry is partially blocking visibility.					

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	19.85	09/16/2015 09/16/2015	Bob Duffey

LM Start	<b>11.53</b>	Rating **	M	Issue No.	<b>8</b>
LM End	<b>11.79</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID					
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. 2015: Last observed in 2013. [2015 Site ID: SAC_152-6_L]					

Photo 1 of 1 : USACE2013A\_SAC\_152-6\_L\_8.jpg



USACE 2013 Photo #1

LM Start	<b>11.85</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>11.90</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID					
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. 2015: Last observed in 2013. [2015 Site ID: SAC_157-7_R]					

Photo 1 of 1 : USACE2013A\_SAC\_157-7\_R\_4.jpg



USACE 2013 Photo #1

LM Start	<b>11.85</b>	Rating **	M	Issue No.	<b>13</b>
LM End	<b>11.90</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.284568 °	39.285298 °
				-122.015690 °	-122.015208 °
DWR ID					
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. 2015: Last observed in 2013. [2015 Site ID: SAC_152-8_L]					

Photo 1 of 1 : USACE2013A\_SAC\_152-8\_L\_1.jpg



USACE 2013 Photo #1

<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	19.85	09/16/2015 09/16/2015	Bob Duffey

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 : FA\_2015\_ST0003\_264\_9\_20150910\_00002.jpg



View of the erosion along the W/S toe.

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. Inspector Comments: Repair the rodent hole along the landside slope					

Photo 1 of 1 : FA\_2015\_ST0003\_264\_57\_20150910\_00019.jpg



View of the rodent holes on the landside slope.

LM Start	<b>18.01</b>	Rating **	M	Issue No.	<b>23</b>
LM End	<b>18.15</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.359188 °	122.006880 °	
			39.359980 °	122.004520 °	
DWR ID	DWR_ST0003_01_f_ 2015_23				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Trim trees to at least five feet to allow visibility.					

No Photos

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable 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	09/16/2015 09/16/2015	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.					

No Photos

LM Start	<b>0.38</b>	Rating **	A	Issue No.	<b>3</b>
LM End	<b>0.38</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.231365 °	39.231365 °	
			-121.988935 °	-121.988935 °	
DWR ID	DWR_ST0003_02_f_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard burned and dragged both slopes.					

Photo 1 of 1 : FA\_2015\_ST0003\_265\_3\_20151013\_00003.jpg



View of the levee slope with no vegetation.

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable 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. 03 Colusa Bypass	Left	2.29	09/16/2015 09/16/2015	Bob Duffey

LM Start	<b>0.71</b>	Rating **	A	Issue No.	<b>3</b>
LM End	<b>0.71</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.237768 °	39.237768 °	
			-121.981307 °	-121.981307 °	
DWR ID	DWR_ST0003_03_f_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard burned and dragged both slopes.					

Photo 1 of 1 : FA\_2015\_ST0003\_266\_3\_20151013\_00005.jpg



View of the levee slopes with no vegetation.

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.					

No Photos

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.					

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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**Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	09/17/2015 09/17/2015	Bob Duffey

LM Start	<b>0.08</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.08</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.337897 °	39.337897 °	
			-122.020677 °	-122.020677 °	
DWR ID	DWR_ST0003_04_f_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard Burned and dragged both slopes.					

Photo 1 of 1 : FA\_2015\_ST0003\_267\_1\_20151013\_00002.jpg



View of the levee slope with no vegetation.

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.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	09/17/2015 09/17/2015	Bob Duffey

LM Start	<b>0.36</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.36</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.343158 °	39.343158 °	
			-122.016377 °	-122.016377 °	
DWR ID	DWR_ST0003_05_f_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard Burned and dragged both slopes.					

Photo 1 of 1 : FA\_2015\_ST0003\_268\_1\_20151013\_00001.jpg



View of the levee slopes with no vegetation.

<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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