

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 0070 Meridian

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass		Right	7.92	11/06/2015 11/06/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0070_01_f_2015_12				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0070_01_s_2013_13				
Action/Comments					
Inspector Comments: The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD0070_01_s_2013_14				
Action/Comments					
Inspector Comments: The LMA completed flood fight training in 2014.					

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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	11/02/2015 11/02/2015	Bob Duffey

LM Start	0.05	Rating **	M	Issue No.	10
LM End	0.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.193219 °	39.190038 °
				-121.935783 °	-121.934199 °
DWR ID					
Action/Comments					
Inspector Comments: 1997 - Loss of cobble revetment in levee section. 2004 - New fresh erosion in a short section of the downstream end. 2010 - New deposition on cobbles. 2015: No observed changes. [2015 Site ID: SAC_138-1_L]					

Photo 1 of 1 : USACE2013A_SAC_138-1_L_5.jpg



USACE 2013 Photo #1

LM Start	1.78	Rating **	M	Issue No.	16
LM End	1.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.173912 °	39.172344 °
				-121.938745 °	-121.937925 °
DWR ID					
Action/Comments					
Inspector Comments: 1997 - Toe erosion on a cobble revetment on the outside of a low receding bend. 2012 - Toe appears pretty stable with old cobbles. 2015: No observed changes. [2015 Site ID: SAC_136-6_L]					

Photo 1 of 2 : USACE2013A_SAC_136-6_L_5.jpg



USACE 2013 Photo #1

LM Start	1.78	Rating **	M	Issue No.	16 (cont)
LM End	1.90	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : USACE2013A_SAC_136-6_L_9.jpg



USACE 2013 Photo #2

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	11/02/2015 11/02/2015	Bob Duffey

LM Start	4.57	Rating **	M	Issue No.	770
LM End	4.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.141155 °	39.141155 °
				-121.919432 °	-121.919432 °
DWR ID	DWR_RD0070_02_s_2014_770				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : FA_2015_RD0070_30_770_20150910_00021.jpg



View of the damaged ramp along the landside slope.

LM Start	6.42	Rating **	M	Issue No.	11
LM End	6.54	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.132040 °	39.130900 °
				-121.936521 °	-121.934690 °
DWR ID					
Action/Comments					
Inspector Comments: 2005 - (known as 132) On inside of bend. Erosion of berm toe. Levee slope is steep. Erosion probably due to eddy scour off upstream cobble. 2009 - Groins may be a good option for repair. 2010 - Scour off the upstream rock, some new erosion. 2011 - Site extended downstream. 2012 - Minor new erosion since last year and new animal holes. 2012 - Minor new erosion since last year and new animal holes. 2013 - New tree popout. 2015: No observed changes. [2015 Site ID: SAC_131-8_L]					

Photo 1 of 1 : USACE2013A_SAC_131-8_L_6.jpg



USACE 2013 Photo #1

LM Start	8.10	Rating **	M	Issue No.	2
LM End	8.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.122459 °	39.120684 °
				-121.910121 °	-121.909152 °
DWR ID					
Action/Comments					
Inspector Comments: 1997 - Critical Site - Erosion of cobble site on outside of a bend. Failure caused by erosion of a material from behind the cobbles and cobbles rolling down the slope. Failure is just above the toe levee. Some repairs had been done at the upstream end. 2004 - Some minor new erosion at the top of the berm. 2005 - Trees look okay and the downstream end has some new rock repair. Site is no longer critical. 2006 - No longer critical, some repairs. 2015: No observed changes. [2015 Site ID: SAC_130-0_L]					

Photo 1 of 1 : USACE2013A_SAC_130-0_L_5.jpg



USACE 2013 Photo #1

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	11/02/2015 11/02/2015	Bob Duffey

LM Start	10.02	Rating **	A	Issue No.	70
LM End	10.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.097565 °	39.097565 °
				-121.896122 °	-121.896122 °
DWR ID	DWR_RD0070_02_f_2015_70				
Action/Comments					
Add appropriate gravel or road base. Grade and compact. Inspector Comments: The Reclamation District placed gravel on the crown roadway.					

Photo 1 of 1 : FA_2015_RD0070_30_70_20151116_00058.jpg



View of the new gravel on the crown roadway.

LM Start	10.64	Rating **	M	Issue No.	6
LM End	10.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.090300 °	39.090300 °
				-121.893102 °	-121.893102 °
DWR ID	DWR_RD0070_02_s_2012_6				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : FA_2015_RD0070_30_6_20150910_00005.jpg



View of vehicle erosion along landside slope.

LM Start	11.64	Rating **	M	Issue No.	15
LM End	11.66	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.080669 °	39.080621 °
				-121.891164 °	-121.891564 °
DWR ID					
Action/Comments					
Inspector Comments: 2005 - Site was repaired. 2009 - Site is at upstream end of the repair site. 2011 - Still minor erosion. 2012 - Site shortened to remove non-eroding section, minor erosion with failing cobbles. 2015: No observed changes. [2015 Site ID: SAC_125-8_L]					

Photo 1 of 1 : USACE2013A_SAC_125-8_L_2.jpg



USACE 2013 Photo #1

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	11/02/2015 11/02/2015	Bob Duffey

LM Start	14.08	Rating **	M	Issue No.	14
LM End	14.21	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		39.069166 °	39.070105 °	
			-121.857995 °	-121.855929 °	
DWR ID					
Action/Comments					
Inspector Comments: 2006 - Erosion into the levee toe. Rock at upstream end has poor transition causing eddy scour. 2010 - Minor new erosion. 2011 - Some fresh erosion. 2012 - Additional slumping on the previously slumped bank, site extended downstream. 2015: No observed changes. [2015 Site ID: SAC_123-3_L]					

Photo 1 of 2 : USACE2013A_SAC_123-3_L_6.jpg



USACE 2013 Photo #1

LM Start	14.08	Rating **	M	Issue No.	14 (cont)
LM End	14.21	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : USACE2013A_SAC_123-3_L_7.jpg



USACE 2013 Photo #2

LM Start	14.96	Rating **	A	Issue No.	71
LM End	14.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.068708 °	39.068708 °	
			-121.844612 °	-121.844612 °	
DWR ID	DWR_RD0070_02_f_2015_71				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The Reclamation District burned and dragged both slopes.					

Photo 1 of 1 : FA_2015_RD0070_30_71_20151116_00060.jpg



View of no vegetation on both slopes.

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Unit No. 02 Sacramento River	Left	15.50	11/02/2015 11/02/2015	Bob Duffey

LM Start	15.41	Rating **	M	Issue No.	37
LM End	15.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.064557 °	39.064557 °	
			-121.838332 °	-121.838332 °	
DWR ID	DWR_RD0070_02_s_2015_37				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Monitor the erosion along the waterside berm.					

Photo 1 of 1 : FA_2015_RD0070_30_37_20150910_00019.jpg



View of the erosion along waterside berm.

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