

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		°	°	°
DWR ID	DWR_RD0017_01_s_2013_1				
Action/Comments					
Inspector Comments: LMA has a copy of the manual on file.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>2</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		°	°	°
DWR ID	DWR_RD0017_01_s_2013_2				
Action/Comments					
Inspector Comments: LMA has adequate flood fight supplies.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>3</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		°	°	°
DWR ID	DWR_RD0017_01_s_2013_3				
Action/Comments					
Inspector Comments: District staff will be involve in the Twitchell Island training on Oct. 22-23, 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 French Camp Slough	Left	1.76	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>0.03</b>	Rating **	A	Issue No.	<b>12</b>
LM End	<b>0.03</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.911629 °	37.911629 °	
			-121.291585 °	-121.291585 °	
DWR ID	DWR_RD0017_01_s_2014_12				
Action/Comments					
Tree or limb					

Photo 1 of 4 : FA\_2014\_RD0017\_303\_12\_20141023\_00004.jpg



Looking north at corrected site.

LM Start	<b>0.03</b>	Rating **	A	Issue No.	<b>12 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA\_2014\_RD0017\_303\_12\_20141010\_00001.jpg



Looking north at tree limbs across levee crown and slope.

LM Start	<b>0.03</b>	Rating **	A	Issue No.	<b>12 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA\_2014\_RD0017\_303\_12\_20141023\_00003.jpg



Looking east at corrected site.

<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 French Camp Slough	Left	1.76	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>0.03</b>	Rating **	A	Issue No.	<b>12 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.911629 °	37.911629 °	
			-121.291585 °	-121.291585 °	
DWR ID	DWR_RD0017_01_s_2014_12				
Action/Comments					
Tree or limb					

Photo 4 of 4 : FA\_2014\_RD0017\_303\_12\_20141010\_00002.jpg



Looking northeast at down tree on waterward slope.

LM Start	<b>0.71</b>	Rating **	C	Issue No.	<b>8</b>
LM End	<b>0.71</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.914795 °	37.914795 °	
			-121.301662 °	-121.301662 °	
DWR ID	DWR_RD0017_01_s_2013_8				
Action/Comments					
Prunings Inspector Comments: Prunings on waterward shoulder.					

No Photos

LM Start	<b>0.89</b>	Rating **	A/W	Issue No.	<b>6</b>
LM End	<b>0.98</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.915087 °	37.915295 °	
			-121.304833 °	-121.306385 °	
DWR ID	DWR_RD0017_01_s_2013_6				
Action/Comments					
Environmental Requirements.					

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	<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. 02 San Joaquin River	Right	14.27	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>0.07</b>	Rating **	C	Issue No.	<b>7</b>
LM End	<b>0.07</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.915161 °	37.915161 °	
			-121.321595 °	-121.321595 °	
DWR ID	DWR_RD0017_02_s_2012_7				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	<b>0.46</b>	Rating **	C	Issue No.	<b>8</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.910190 °	37.910190 °	
			-121.324424 °	-121.324424 °	
DWR ID	DWR_RD0017_02_s_2012_8				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	<b>1.08</b>	Rating **	U	Issue No.	<b>6</b>
LM End	<b>1.08</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.902530 °	37.902530 °	
			-121.325690 °	-121.325690 °	
DWR ID					
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The erosion is nearly vertical, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2014 Site ID:RD0017U02RM44.32]					

Photo 1 of 1 : SJR2014\_RD0017U02RM44.32\_1.jpg



Front view of the erosion site. Note the concrete blocks and vegetation.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>1.28</b>	Rating **	M	Issue No.	<b>14</b>
LM End	<b>1.28</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.899510 °	37.899510 °	
			-121.326030 °	-121.326030 °	
DWR ID					
Action/Comments					
Inspector Comments: 06/19/2014: The erosion has been repaired. A minor erosion is still visible near the tree. 08/13/2013: A mid-size tree is present immediately upstream of the erosion, which could block the view of the site. Some debris is visible. [2014 Site ID:RD0017U02RM44.52]					

Photo 1 of 1 : SJR2014\_RD0017U02RM44.52\_1.jpg



View from downstream.

LM Start	<b>2.66</b>	Rating **	M	Issue No.	<b>92</b>
LM End	<b>2.66</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.881020 °	37.881020 °	
			-121.332260 °	-121.332260 °	
DWR ID					
Action/Comments					
Inspector Comments: 6/19/2014: The erosion was probably caused by the irrigation pipe found at the site. [2014 Site ID:RD0017U02RM45.94]					

Photo 1 of 1 : SJR2014\_RD0017U02RM45.94\_1.jpg



Close view of the erosion site.

LM Start	<b>2.71</b>	Rating **	M	Issue No.	<b>93</b>
LM End	<b>2.73</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.880710 °	37.880710 °	
			-121.332200 °	-121.332200 °	
DWR ID					
Action/Comments					
Inspector Comments: 6/19/2014: The erosion is in the river bank which has an estimated 10-ft wide berm. [2014 Site ID:RD0017U02RM45.95]					

Photo 1 of 1 : SJR2014\_RD0017U02RM45.95\_1.jpg



Front view of the erosion along the water edge. Note the vegetation at the erosion site.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>2.78</b>	Rating **	C	Issue No.	<b>94</b>
LM End	<b>2.79</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.879293 °	37.879293 °
				-121.332518 °	-121.332518 °
DWR ID					
Action/Comments					
Inspector Comments: 06/19/2014: The erosion has been repaired. 08/13/2013: Found during boat survey. There is vegetation at the site. [2014 Site ID:RD0017U02RM46.03]					

No Photos

LM Start	<b>2.81</b>	Rating **	M	Issue No.	<b>95</b>
LM End	<b>2.81</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878660 °	37.878660 °
				-121.332400 °	-121.332400 °
DWR ID					
Action/Comments					
Inspector Comments: 06/19/2014: A pocket erosion was found during the boat survey. [2014 Site ID:RD0017U02RM46.1]					

Photo 1 of 1 : SJR2014\_RD0017U02RM46.1\_1.jpg



Front view of the erosion.

LM Start	<b>3.46</b>	Rating **	C	Issue No.	<b>5</b>
LM End	<b>3.46</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.870560 °	37.870560 °
				-121.329120 °	-121.329120 °
DWR ID					
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: This site was repaired prior to the boat survey. No new erosion discovered. 08/07/2012: The erosion is immediately upstream of riprap protection section. The possible cause of the erosion is the rainfall runoff washout. [2014 Site ID:RD0017U02RM42.02]					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>3.62</b>	Rating **	M	Issue No.	<b>96</b>
LM End	<b>3.62</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.868500 °	37.868500 °
				-121.327670 °	-121.327670 °
DWR ID					
Action/Comments					
Inspector Comments: 06/19/2014: The erosion is near a large tree and probably has been caused by the irrigation pipe on the site. [2014 Site ID:RD0017U02RM46.89]					

Photo 1 of 1 : SJR2014\_RD0017U02RM46.89\_1.jpg



Front view of the erosion. Note the tree and the irrigation pipe.

LM Start	<b>5.01</b>	Rating **	C	Issue No.	<b>3</b>
LM End	<b>5.01</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.855343 °	37.855343 °
				-121.319845 °	-121.319845 °
DWR ID	DWR_RD0017_02_s_2012_3				
Action/Comments					
Prunings					

No Photos

LM Start	<b>5.77</b>	Rating **	C	Issue No.	<b>19</b>
LM End	<b>5.77</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.849267 °	37.849267 °
				-121.322590 °	-121.322590 °
DWR ID	DWR_RD0017_02_s_2012_19				
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	<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. 02 San Joaquin River	Right	14.27	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>5.98</b>	Rating **	C	Issue No.	<b>16</b>
LM End	<b>5.98</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.847107 °	37.847107 °	
			-121.323238 °	-121.323238 °	
DWR ID	DWR_RD0017_02_s_2013_16				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus on landside toe.					

No Photos

LM Start	<b>7.29</b>	Rating **	M	Issue No.	<b>18</b>
LM End	<b>7.29</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.833162 °	37.833162 °	
			-121.312715 °	-121.312715 °	
DWR ID	DWR_RD0017_02_s_2013_18				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>7.51</b>	Rating **	M	Issue No.	<b>4</b>
LM End	<b>7.51</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.830350 °	37.830350 °	
			-121.310880 °	-121.310880 °	
DWR ID	DWR_RD0017_02_s_2012_4				
Action/Comments					
Trim trees to at least five feet above ground level.					

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	<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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Unit No. 02 San Joaquin River	Right	14.27	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>7.67</b>	Rating **	M	Issue No.	<b>25</b>
LM End	<b>7.69</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.828095 °	37.827920 °	
			-121.309945 °	-121.309847 °	
DWR ID	DWR_RD0017_02_s_2012_25				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA\_2014\_RD0017\_304\_25\_20141010\_00016.jpg



Elderberry blocking view of landside slope and toe from LM 7.67 to 7.69

LM Start	<b>9.40</b>	Rating **	M	Issue No.	<b>9</b>
LM End	<b>9.40</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.815243 °	37.815243 °	
			-121.317470 °	-121.317470 °	
DWR ID	DWR_RD0017_02_s_2012_9				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA\_2014\_RD0017\_304\_9\_20141023\_00028.jpg



Looking east at bamboo at landward toe.

LM Start	<b>14.02</b>	Rating **	C	Issue No.	<b>37</b>
LM End	<b>14.26</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.774285 °	37.773138 °	
			-121.295703 °	-121.291763 °	
DWR ID	DWR_RD0017_02_s_2012_37				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

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	<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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Unit No. 02 San Joaquin River	Right	14.27	10/14/2014 10/14/2014	Richard Willoughby

LM Start	<b>14.04</b>	Rating **	<b>C</b>	Issue No.	<b>38</b>
LM End	<b>14.44</b>	Issue Type +	<b>Ma</b>	Location *	<b>LS</b>
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.774262 °	37.772163 °	
			-121.295305 °	-121.289295 °	
DWR ID	DWR_RD0017_02_s_2012_38				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

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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