

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/14/2015 04/14/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	1		
LM End	0.00	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	0.00	Rating **	A	Issue No.	2	
LM End	0.00	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	0.00	Rating **	A	Issue No.	3	
LM End	0.00	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 are involved in yearly training sponsored by DWR.						

No Photos

* 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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Unit No. 01 French Camp Slough	Left	1.76	04/14/2015 04/14/2015	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	9		
LM End	1.76	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Vegetation				o		o
					o		o
DWR ID	DWR_RD0017_01_s_2015_9						
Action/Comments							
Control annual grass and weeds on the levee slopes and easements.							

Photo 1 of 1 : SP_2015_RD0017_303_9_20150416_00001.jpg



Looking south at typical view of landward slope.

LM Start	0.00	Rating **	M	Issue No.	10
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				o
					o
DWR ID	DWR_RD0017_01_s_2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD0017_303_10_20150416_00002.jpg



Looking south at typical view of waterward slope.

* 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 San Joaquin River	Right	14.27	04/14/2015 04/14/2015	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	6
LM End	1.08	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	DWR_RD0017_02_s _ 2015_6				
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] Site has been corrected.					

Photo 1 of 1 : SP_2015_RD0017_304_6_20150309_00004.jpg



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

LM Start	1.16	Rating **	U	Issue No.	78
LM End	1.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.901318 °	37.901318 °
				-121.325522 °	-121.325522 °
DWR ID	DWR_RD0017_02_s _ 2015_78				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Sink hole (4' x 18" x 5')next to pipe.					

Photo 1 of 3 : SP_2015_RD0017_304_78_20150416_00020.jpg



Looking north at sink hole on landward toe next to irrigation pipe.

LM Start	1.16	Rating **	U	Issue No.	78 (cont)
LM End	1.16	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2015_RD0017_304_78_20150416_00019.jpg



Looking south at sink hole at landward toe next to irrigation ppe.

* 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 San Joaquin River	Right	14.27	04/14/2015 04/14/2015	Richard Willoughby

LM Start	1.16	Rating **	U	Issue No.	78 (cont)
LM End	1.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.901318 °	37.901318 °
				-121.325522 °	-121.325522 °
DWR ID	DWR_RD0017_02_s _ 2015_78				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Sink hole (4' x 18" x 5') next to pipe.					

Photo 3 of 3 : SP_2015_RD0017_304_78_20150416_00021.jpg



Looking west at sink hole on landward toe next to irrigation pipe.

LM Start	1.29	Rating **	M	Issue No.	14
LM End	1.29	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	DWR_RD0017_02_s _ 2015_14				
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 : SP_2015_RD0017_304_14_20150309_00010.jpg



View from downstream.

LM Start	2.66	Rating **	M	Issue No.	92
LM End	2.66	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	DWR_RD0017_02_s _ 2015_92				
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 : SP_2015_RD0017_304_92_20150309_00015.jpg



Close view of the erosion site.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/14/2015 04/14/2015	Richard Willoughby

LM Start	2.68	Rating **	M	Issue No.	93
LM End	2.68	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	DWR_RD0017_02_s _ 2015_93				
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 : SP_2015_RD0017_304_93_20150309_00016.jpg



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

LM Start	2.82	Rating **	M	Issue No.	95
LM End	2.82	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	DWR_RD0017_02_s _ 2015_95				
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 : SP_2015_RD0017_304_95_20150309_00017.jpg



Front view of the erosion.

LM Start	3.63	Rating **	M	Issue No.	96
LM End	3.63	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	DWR_RD0017_02_s _ 2015_96				
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 : SP_2015_RD0017_304_96_20150309_00018.jpg



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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/14/2015 04/14/2015	Richard Willoughby

LM Start	6.74	Rating **	M	Issue No.	79
LM End	6.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.838810 °	37.838810 °
				-121.316600 °	-121.316600 °
DWR ID	DWR_RD0017_02_s _ 2015_79				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove cactus on waterward slope.					

No Photos

LM Start	7.19	Rating **	M	Issue No.	18
LM End	7.19	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	7.42	Rating **	M	Issue No.	4
LM End	7.42	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

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Unit No. 02 San Joaquin River	Right	14.27	04/14/2015 04/14/2015	Richard Willoughby

LM Start	7.58	Rating **	M	Issue No.	25
LM End	7.60	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 : SP_2015_RD0017_304_25_20150309_00011.jpg



Elderberry blocking view of landside slope and toe.

LM Start	9.28	Rating **	M	Issue No.	9
LM End	9.28	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 : SP_2015_RD0017_304_9_20150309_00005.jpg



Looking east at bamboo at landward toe.

LM Start	10.64	Rating **	M	Issue No.	80
LM End	10.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805787 °	37.805787 °
				-121.322022 °	-121.322022 °
DWR ID	DWR_RD0017_02_s _ 2015_80				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

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