

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o	o	o
DWR ID	DWR_RD2091_01_s_2013_2				
Comment Code					
Inspector Comment					
The LMA has copy of O & M manual on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o	o	o
DWR ID	DWR_RD2091_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA maintains adequate flood fight supplies and equipment.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o	o	o
DWR ID	DWR_RD2091_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA maintains a good working knowledge of flood response activities.					

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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Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	7.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.541438 °		
			-121.092770 °		
DWR ID	DWR_RD2091_01_s_2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	14
LM End	7.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.541438 °		
			-121.092770 °		
DWR ID	DWR_RD2091_01_s_2016_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.23	Rating **	U	Issue No.	15
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.541550 °	37.541550 °	
			-121.096742 °	-121.096742 °	
DWR ID	DWR_RD2091_01_s_2016_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.					

Photo 1 of 4 : SP_2016_RD2091_318_15_20160427_00022.jpg



Looking west at dip on landward levee shoulder.

* 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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LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541550 °	37.541550 °
				-121.096742 °	-121.096742 °
DWR ID	DWR_RD2091_01_s_2016_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.					

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP_2016_RD2091_318_15_20160427_00020.jpg



Looking southeast at depression along landward shoulder.

Photo 3 of 4 : SP_2016_RD2091_318_15_20160427_00021.jpg



Looking south at depression along landward shoulder.

Photo 4 of 4 : SP_2016_RD2091_318_15_20160427_00023.jpg



Looking northwest at depression along landward shoulder.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.25	Rating **	M	Issue No.	16
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492 °	37.541408 °
				-121.097052 °	-121.097453 °
DWR ID	DWR_RD2091_01_s_2016_16				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several fringer erosions and possible rodent holes along landward shoulder and slope.					

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS

Photo 1 of 5 : SP_2016_RD2091_318_16_20160427_00026.jpg



Looking east at fringer erosion on landward slope.

Photo 2 of 5 : SP_2016_RD2091_318_16_20160427_00024.jpg



Looking east at fringer erosion and possible rodent hole on landward slope.

Photo 3 of 5 : SP_2016_RD2091_318_16_20160427_00027.jpg



Looking east at fringer erosion on landward slope.

* 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. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492 °	37.541408 °
				-121.097052 °	-121.097453 °
DWR ID	DWR_RD2091_01_s_2016_16				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several fringer erosions and possible rodent holes along landward shoulder and slope.					

Photo 4 of 5 : SP_2016_RD2091_318_16_20160427_00025.jpg



Looking east at fringer erosion and possible rodent hole on landward slope.

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS

Photo 5 of 5 : SP_2016_RD2091_318_16_20160427_00028.jpg



Looking east at erosion and possible rodent hole on landward shoulder.

LM Start	5.66	Rating **	A/W	Issue No.	11
LM End	5.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.486090 °	37.485839 °
				-121.067612 °	-121.067357 °
DWR ID	DWR_RD2091_01_s_2015_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The LMA has implemented a rodent program. No visible rodents and rodent holes.					

No Photos

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Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	5.92	Rating **	M	Issue No.	12
LM End	5.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.485998 °	37.485998 °	
			-121.063323 °	-121.063323 °	
DWR ID	DWR_RD2091_01_f_2015_12				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2091_318_12_20160427_00029.jpg



Looking southeast at untrimmed tree on landward slope.

* 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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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05		Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.482230 °		
			-121.051485 °		
DWR ID	DWR_RD2091_02_s_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					



LM Start	0.00	Rating **	M	Issue No.	5
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.482230 °		
			-121.051485 °		
DWR ID	DWR_RD2091_02_s_2016_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					



LM Start	0.03	Rating **	A/W	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.482523 °	37.482523 °	
			-121.051103 °	-121.051103 °	
DWR ID	DWR_RD2091_02_s_2012_1				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05		Richard Willoughby

LM Start	0.05	Rating **	A/W	Issue No.	2
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.482815 °	37.482815 °	
			-121.050849 °	-121.050849 °	
DWR ID	DWR_RD2091_02_f_2012_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

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