

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/24/2020 04/24/2020	David Julian

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o		o
			o		o
DWR ID	DWR_RD2098_01_f_2014_3				
Comment Code					
Inspector Comment					
RD 2098 has on file O+M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o		o
			o		o
DWR ID	DWR_RD2098_01_f_2014_4				
Comment Code					
Inspector Comment					
RD 2098 has emergency supplies in storage along with equipment.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o		o
			o		o
DWR ID	DWR_RD2098_01_f_2014_5				
Comment Code					
Inspector Comment					
RD 2098 has their team well prepared for a flood fight.					

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. 01 Yolo Bypass	Right	3.60	04/24/2020 04/24/2020	David Julian

LM Start	0.02	Rating **	M	Issue No.	11
LM End	1.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.328859 °	38.313957 °	
			-121.694072 °	-121.693790 °	
DWR ID	DWR_RD2098_01_s_2020_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2098_244_11_20200424_00051.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2020).

LM Start	0.02	Rating **	M	Issue No.	16
LM End	1.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.328859 °	38.313540 °	
			-121.694072 °	-121.693678 °	
DWR ID	DWR_RD2098_01_s_2020_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2098_244_16_20200424_00050.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2020).

LM Start	0.57	Rating **	M	Issue No.	13
LM End	1.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.320755 °	38.313700 °	
			-121.693982 °	-121.693639 °	
DWR ID	DWR_RD2098_01_s_2017_13				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion on the waterside slope.					

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. 01 Yolo Bypass	Right	3.60	04/24/2020 04/24/2020	David Julian

LM Start	0.96	Rating **	A/W	Issue No.	19
LM End	0.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.315200 °	38.315100 °
				-121.694100 °	-121.694100 °
DWR ID	LMA-241				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of cracking and sloughing of the lower landside levee slope. Site ID No:414 Site Designation:LMA-241 4/24/2020 Field Notes: Vegetation is to thick to see. Verify in fall when vegetation less.					



LM Start	1.55	Rating **	M	Issue No.	14
LM End	1.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.306628 °	38.306628 °
				-121.693632 °	-121.693632 °
DWR ID	DWR_RD2098_01_f_2018_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim and thin trees to allow inspection and access to landside slope and toe.					



View looking upstream at untrimmed trees on the landside slope (Fall 2019).

* 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 Yolo Bypass	Right	3.60	04/24/2020 04/24/2020	David Julian

LM Start	1.58	Rating **	M	Issue No.	17
LM End	3.58	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.306205 °	38.277686 °	
			-121.693596 °	-121.696225 °	
DWR ID	DWR_RD2098_01_s_2020_17				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2098_244_17_20200424_00052.jpg



View looking downstream at vegetation on the crown (Spring 2020).

LM Start	1.76	Rating **	M	Issue No.	18
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.303611 °	38.303611 °	
			-121.693607 °	-121.693607 °	
DWR ID	DWR_RD2098_01_s_2018_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion at the waterside toe.					

Photo 1 of 1 : SP_2020_RD2098_244_18_20200304_00004.jpg



View of erosion.

* 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. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/24/2020 04/24/2020	David Julian

LM Start	2.35	Rating **	U	Issue No.	28
LM End	2.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.295100 °	38.294500 °
				-121.693400 °	-121.693400 °
DWR ID	LMA-250				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of scour, sloughing, and cracking of the lower and mid waterside levee slope. Site ID No:423 Site Designation:LMA-250					

Photo 1 of 2 : SP_2020_RD2098_244_28_20200424_00054.jpg



View looking downslope at erosion into the waterside toe and slope (Spring 2020).

LM Start	2.35	Rating **	U	Issue No.	28 (cont)
LM End	2.39	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2020_RD2098_244_28_20200424_00055.jpg



View looking upstream at erosion into the waterside slope (Spring 2020).

LM Start	2.75	Rating **	U	Issue No.	34
LM End	2.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.289200 °	38.288405 °
				-121.693500 °	-121.693617 °
DWR ID	LMA-256				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of scour and sloughing of the waterside levee slope. Site ID No:429 & 430 Site Designation:LMA-256, LMA-257					

Photo 1 of 1 : SP_2020_RD2098_244_34_20200424_00056.jpg



View looking downstream at erosion into the waterside slope (Spring 2020).

* 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 Yolo Bypass	Right	3.60	04/24/2020 04/24/2020	David Julian

LM Start	2.91	Rating **	U	Issue No.	36
LM End	2.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.286900 °	38.286700 °
				-121.693500 °	-121.693500 °
DWR ID	LMA-258				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of scour and sloughing of the waterside levee slope. Site ID No:431 Site Designation:LMA-258					

Photo 1 of 1 : SP_2020_RD2098_244_36_20200424_00057.jpg



View looking upstream at erosion into the waterside slope (Spring 2020).

LM Start	2.99	Rating **	M	Issue No.	37
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.285700 °	38.281500 °
				-121.693500 °	-121.694300 °
DWR ID	LMA-259				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of scour and sloughing of the waterside levee slope. Site ID No:432 Site Designation:LMA-259					

Photo 1 of 2 : SP_2020_RD2098_244_37_20200304_00026.jpg



LM Start	2.99	Rating **	M	Issue No.	37 (cont)
LM End	3.29	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2020_RD2098_244_37_20200304_00027.jpg



* 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 Yolo Bypass	Right	3.60	04/24/2020 04/24/2020	David Julian

LM Start	3.04	Rating **	C	Issue No.	12
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.285075 °	38.277458 °	
			-121.693647 °	-121.696303 °	
DWR ID	DWR_RD2098_01_f_2017_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Vegetation at the bottom of the slope and toe needs to be maintained.					

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 Cache Slough	Left	1.89	04/24/2020 04/24/2020	David Julian

LM Start	5.29	Rating **	M	Issue No.	7
LM End	6.12	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.275723 °	38.284330 °	
			-121.705666 °	-121.714673 °	
DWR ID	DWR_RD2098_02_s_2020_7				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2098_246_7_20200424_00035.jpg



View looking upstream at erosion into the waterside slope (Spring 2020).

LM Start	5.29	Rating **	M	Issue No.	6
LM End	7.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.275732 °	38.292995 °	
			-121.705768 °	-121.723259 °	
DWR ID	DWR_RD2098_02_f_2019_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2098_246_6_20200304_00001.jpg



View looking upstream at vegetation on the landside slope (Fall 2019).

LM Start	5.88	Rating **	U	Issue No.	11
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.282946 °	38.282946 °	
			-121.710902 °	-121.710902 °	
DWR ID	DWR_RD2098_02_s_2018_11				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This waterside slump site is not new, and is somewhat protected by riprap and thick brushy vegetation, but it has the potential to erode into crown during high water with a strong south wind. It currently has a two-foot vertical scarp at the levee shoulder.					

Photo 1 of 1 : SP_2020_RD2098_246_11_20200304_00003.jpg



View looking upstream at erosion site on the waterside slope (Fall 2019).

* 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. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/24/2020 04/24/2020	David Julian

LM Start	6.46	Rating **	U	Issue No.	15
LM End	6.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.288700 °	38.289061 °	
			-121.717000 °	-121.716885 °	
DWR ID	LMA-267				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of scour of the lower and mid waterside levee slope. Site ID No:440 & 441 Site Designation:LMA-267 & LMA-268					

Photo 1 of 1 : SP_2020_RD2098_246_15_20200424_00036.jpg



View looking downstream at erosion into the waterside slope (Spring 2020).

LM Start	6.64	Rating **	U	Issue No.	18
LM End	6.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.291300 °	38.291400 °	
			-121.716100 °	-121.716000 °	
DWR ID	LMA-269				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of scour, cracking, instability, and sloughing of the waterside levee slope. Site ID No:442 Site Designation:LMA-269					

Photo 1 of 1 : SP_2020_RD2098_246_18_20200424_00037.jpg



View looking upstream at erosion into the waterside slope (Spring 2020).

LM Start	6.68	Rating **	M	Issue No.	8
LM End	7.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.291799 °	38.293004 °	
			-121.715734 °	-121.722095 °	
DWR ID	DWR_RD2098_02_s_2020_8				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

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 Cache Slough	Left	1.89	04/24/2020 04/24/2020	David Julian

LM Start	6.72	Rating **	M	Issue No.	23 (cont)
LM End	6.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.292234 °	38.292234 °
				-121.715875 °	-121.715875 °
DWR ID	20961				

Photo 2 of 3 : UCIP_SP_2020_32285_58748.jpg



7-foot diameter CMP riser with two slide gates inside.

LM Start	6.72	Rating **	M	Issue No.	23 (cont)
LM End	6.72	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_32285_58747.jpg



7-foot diameter CMP riser with two slide gates inside.

LM Start	6.74	Rating **	M	Issue No.	19
LM End	6.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.292500 °	38.292600 °
				-121.716100 °	-121.716200 °
DWR ID	LMA-270				

Photo 1 of 1 : SP_2020_RD2098_246_19_20200304_00013.jpg



Comment Code
S1 : Repair slope instability.

Inspector Comment
This was a 2017 Storm Damage site.
The damage consists of scour and sloughing of the landside levee slope.
Site ID No:443
Site Designation:LMA-270

* 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 Cache Slough	Left	1.89	04/24/2020 04/24/2020	David Julian

LM Start	6.77	Rating **	M	Issue No.	20
LM End	6.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.292900 °	38.293000 °	
			-121.716600 °	-121.717000 °	
DWR ID	LMA-271				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This was a 2017 Storm Damage site. The damage consists of cracking of the levee crest. Site ID No:444 Site Designation:LMA-271					

Photo 1 of 1 : SP_2020_RD2098_246_20_20200304_00018.jpg



LM Start	6.86	Rating **	M	Issue No.	12
LM End	6.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.292965 °	38.292965 °	
			-121.718188 °	-121.718188 °	
DWR ID	DWR_RD2098_02_s_2020_12				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion at the top of the landside slope.					

Photo 1 of 1 : SP_2020_RD2098_246_12_20200424_00038.jpg



View looking upstream at erosion at the top of the landside slope (Spring 2020).

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/24/2020 04/24/2020	David Julian

LM Start	7.24	Rating **	A/W	Issue No.	25
LM End	7.24	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.293741 °	38.293741 °	
			-121.724787 °	-121.724787 °	
DWR ID	20978				
Comment Code					
Inspector Comment					
DS_ID:20978 FS_ID:32303 EP_NO: 10171 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 09/14/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 10171, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel dual-purpose irrigation and drainage pipe through the levee, 4.5 feet below the crown. Corrugated metal cutoff wall around the pipe. Pipe has welded steel plate over end on the landside (LS) slope and is not visible on the waterside (WS) slope. (24-inch pipe [HLM 7.23] authorized under Automatic Board Order (ABO) issued as Permit No. 10171, 1974 - Glenn A. Bowsbey). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 7.28)]. FS Date: 3/18/2014 7:07:14 AM					

Photo 1 of 3 : UCIP_SP_2020_32303_58782.jpg



Pipe visible under new pipe on LS slope.

LM Start	7.24	Rating **	A/W	Issue No.	25 (cont)
LM End	7.24	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_32303_58781.jpg



Pipe visible under new pipe on LS 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. 03 Haas Slough	Right	1.94	04/24/2020 04/24/2020	David Julian

LM Start	7.18	Rating **	M	Issue No.	6
LM End	8.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.293066 °	38.306607 °	
			-121.724085 °	-121.731606 °	
DWR ID	DWR_RD2098_03_s_2020_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2098_247_6_20200424_00021.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2020).

LM Start	7.33	Rating **	M	Issue No.	7
LM End	7.72	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		38.294858 °	38.299606 °	
			-121.725433 °	-121.728621 °	
DWR ID	DWR_RD2098_03_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: HAS 7.9 L Status: Eroding 2017 Field Notes: POSSIBLY BEING FIXED BY RD; deep cracks along bank and toe, intermittent slump. Site History: 2011 - Large vertical erosion pockets and bank slumping. Includes three 2017 Storm Damage Sites. Sites 449, 450, & 451. LMA-276, LMA-277, LMA-278.					

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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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/24/2020 04/24/2020	David Julian

LM Start	7.51	Rating **	M	Issue No.	1
LM End	7.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.296846 °	38.296846 °
				-121.727546 °	-121.727546 °
DWR ID	DWR_RD2098_03_f_2016_1				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion on landside slope is caused by livestock activity and needs repair.					

Photo 1 of 1 : SP_2020_RD2098_247_1_20200304_00002.jpg



Close up. Looking upstream.

LM Start	8.05	Rating **	M	Issue No.	12
LM End	8.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.304278 °	38.306705 °
				-121.727960 °	-121.732014 °
DWR ID	DWR_RD2098_03_f_2018_12				
Comment Code					
Inspector Comment					
2017 Site ID: HAS 8.4 L Status: Eroding New 2017 Field Notes: Horizontal cracks; scour along toe; poorly constructed levee susceptible to erosion. Site History:					

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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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/24/2020 04/24/2020	David Julian

LM Start	8.16	Rating **	A/W	Issue No.	14
LM End	8.16	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.305462 °	38.305462 °	
			-121.728881 °	-121.728881 °	
DWR ID	20981				
Comment Code					
Inspector Comment					
DS_ID:20981 FS_ID:51453 EP_NO: 10174 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 12/22/2016 Crossing has been downgraded from Urgent to No Action Needed walkways on both WS and LS have been rebuilt and the WS gate has been upgraded to stainless steel where previous corrodable material was present. (O. Magana - DWR UCIP)03/19/2014 Current walkway to slidegate on WS toe does not provide safe access to operate slidegate. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 36-inch steel dual-purpose irrigation and drainage pipe through the levee, 26 feet below the crown. Two corrugated metal cutoff walls around the pipe. Walkway to the slide gate on the waterside (WS) end. Combination slide and flap gate on the landside (LS) end. 48-inch corrugated metal pipe (CMP) riser and an adjoining pump on a metal pier at the LS toe. (36-inch pipe [HLM 8.20] authorized under Automatic Board Order (ABO) issued as Permit No. 10174, 1974 - Glen A. Bowsbey). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 8.20)]. FS Date: 12/22/2016					

Photo 1 of 3 : UCIP_SP_2020_51453_76858.jpg



Walkway has been re-built, photo 1 of 2.

LM Start	8.16	Rating **	A/W	Issue No.	14 (cont)
LM End	8.16	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_51453_76861.jpg



Walkway has been re-built, photo 2 of 2.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/24/2020 04/24/2020	David Julian

LM Start	8.16	Rating **	A/W	Issue No.	14 (cont)
LM End	8.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.305462 °	38.305462 °
				-121.728881 °	-121.728881 °
DWR ID	20981				



View of levee crown at pipe crossing.

LM Start	8.33	Rating **	M	Issue No.	5
LM End	9.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.306642 °	38.315662 °
				-121.731658 °	-121.739752 °
DWR ID	DWR_RD2098_03_s_2020_5				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

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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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/24/2020 04/24/2020	David Julian

LM Start	9.44	Rating **	U	Issue No.	9 (cont)
LM End	9.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.320240°	38.324587°
				-121.740183°	-121.740254°
DWR ID	DWR_RD2098_04_f_2018_9				

Photo 3 of 3 : SP_2020_RD2098_248_9_20200304_00003.jpg



View looking downstream at worst section of the erosion on the waterside slope (Spring 2019).

LM Start	9.83	Rating **	U	Issue No.	8
LM End	12.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.325720°	38.357779°
				-121.740509°	-121.740365°
DWR ID	DWR_RD2098_04_s_2020_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2098_248_8_20200424_00024.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2020).

* 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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