

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	09/03/2020 09/03/2020	Luz Dial

LM Start	0.00	Rating **	A	Issue No.	6
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_RD0900_01_f_2018_6				
Comment Code					
Inspector Comment					
This LMA has the updated O&M manuals for the district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			38.580931 °	38.580931 °
				-121.509693 °	-121.509693 °
DWR ID	DWR_RD0900_01_s_2013_12				
Comment Code					
Inspector Comment					
This LMA has an adequate amount of sandbags, sand, and various flood fight supplies in their possession.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
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_RD0900_01_s_2013_16				
Comment Code					
Inspector Comment					
The LMA attended a November 2019 flood fight training session.					

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 Sacramento River	Right	7.70	09/03/2020 09/03/2020	Luz Dial

LM Start	0.04	Rating **	M	Issue No.	22
LM End	0.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.580437 °	38.580437 °
				-121.509985 °	-121.509985 °
DWR ID	DWR_RD0900_01_f_2020_22				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.50	Rating **	M	Issue No.	24
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.574718 °	38.574718 °
				-121.514023 °	-121.514023 °
DWR ID	DWR_RD0900_01_f_2019_24				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove a large tree on the waterside slope.					

Photo 1 of 1 : FA_2020_RD0900_230_24_20200902_00002.jpg



View of large tree debris on waterside slope. Fall 2019

LM Start	0.52	Rating **	N	Issue No.	23
LM End	0.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.574555 °	38.574555 °
				-121.514188 °	-121.514188 °
DWR ID	DWR_RD0900_01_f_2020_23				
Comment Code					
T5 : Tree stumps.					
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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Unit No. 01 Sacramento River	Right	7.70	09/03/2020 09/03/2020	Luz Dial

LM Start	0.58	Rating **	M	Issue No.	31
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.573877 °	38.573877 °	
			-121.514862 °	-121.514862 °	
DWR ID	DWR_RD0900_01_s _ 2020_31				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Backfill large animal holes. There is evidence of recent activity.					

No Photos

LM Start	0.60	Rating **	M	Issue No.	26
LM End	0.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.573668 °	38.573668 °	
			-121.515212 °	-121.515212 °	
DWR ID	DWR_RD0900_01_f _ 2020_26				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.84	Rating **	A/W	Issue No.	39
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.571150 °	38.571150 °	
			-121.518137 °	-121.518137 °	
DWR ID	DWR_RD0900_01_s _ 2020_39				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	09/03/2020 09/03/2020	Luz Dial

LM Start	2.28	Rating **	A/W	Issue No.	33
LM End	2.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.555082 °	38.555082 °
				-121.516065 °	-121.516065 °
DWR ID	DWR_RD0900_01_s _ 2020_33				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim tree branches to at least 5' clearance above the ground down to 20' from the waterside shoulder.					

No Photos

LM Start	2.35	Rating **	A/W	Issue No.	29
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.554277 °	38.552504 °
				-121.515263 °	-121.514752 °
DWR ID	DWR_RD0900_01_s _ 2019_29				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 56.7 R					
Status: Eroding					
2017 Field Notes: Fresh toe erosion. New rock placed.					
Site History: 2007 - Have good berm width with minor toe erosion.					
Close to the levee toe protection, but levee slope is steep. 2011 - New large erosion pocket. 2012 - Minor new erosion at the toe.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	09/03/2020 09/03/2020	Luz Dial

LM Start	2.55	Rating **	A/W	Issue No.	28
LM End	2.64	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.551319 °	38.550090 °
				-121.514423 °	-121.513983 °
DWR ID	DWR_RD0900_01_s_2019_28				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 56.5 R Status: Eroding 2017 Field Notes: Fresh toe erosion. Site History: 1997 - Low berm is contributing to erosion. Old timber pile dikes above water parallel to bank. The upstream mitigation low berm causes a flow separation at the site. 1999 - Some new localized erosion with less than one foot of bank retreat. 2000 - Some new erosion at the upstream end. Fat toe deposits at toe. 2003 - Some new erosion upstream, but have a wide berm. 2011 - Minor new erosion at toe.					

Photo 1 of 1 : FA_2020_RD0900_230_28_20200902_00003.jpg



View looking upstream at repaired erosion site. Spring 2019

LM Start	3.27	Rating **	A/W	Issue No.	27
LM End	3.48	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.541246 °	38.538689 °
				-121.513561 °	-121.515916 °
DWR ID	DWR_RD0900_01_s_2019_27				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 55.7 R					
Status: Critical					
2017 Field Notes: Fresh toe erosion. Site upgraded to critical. A setback levee is under construction behind this site.					
Site History: 2008 - Erosion into levee toe. Over steepened levee slope, worst at the upstream end. 2009 - Near vertical banks from rotational slumping, hidden by vegetation. 2010 - Boat sinking more, may be causing eddy scour around it. Difficult to see the vertical slumps due to dense vegetation. 2011 - Minor new erosion at the toe. The paddleboat that was sitting at this site for years has been removed. 2012 - Site extended upstream due to additional erosion. 2016 - New rock on slope at upstream end. The setback levee is constructed, and this issue no longer applies.					

No Photos

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Unit No. 01 Sacramento River	Right	7.70	09/03/2020 09/03/2020	Luz Dial

LM Start	3.32	Rating **	M	Issue No.	71	
LM End	3.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.540803 °	38.540803 °	
				-121.514255 °	-121.514255 °	
DWR ID	17769					
Comment Code						
Inspector Comment						
DS_ID:17769 FS_ID:37668 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: Crossing Status: Found UCIP Comments: 02/26/2018 Pipe is located within the construction limits of the Levee Improvement Project for RD0900, As-built PENDING Project Completion. -- UNDER CONSTRUCTION Levee Improvement Project, construction schedule Summer 2016 to November 2018. Levee improvements address through seepage, underseepage and slope stability and include strengthen-in-place improvements and construction of a setback levee. Reference: [Issued FOR CONSTRUCTION] West Sacramento Area Flood Control Agency Southport Levee Improvement Project Early Implementation Program. Southport Sacramento River Levee: (Stat 3+90 to Station 287+57). Volume 3 (W.O. # 41164) December 2016 Conformed Submittal. HDR Engineering Inc. Folsom, CA – (DWR UCIP – O. Magana) 10/06/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 24-inch pipe through the levee, 22.0 feet below the crown. Pump house at the landside (LS) toe. Screw gate in LS of the levee. Additional Reference(s): USACE Sacramento O&M Manual Unit No. 116, August 1955, revised 2011, (USGS River Mile [RM] 55.65), As-built drawing# 6-13-1100 page 3, January 1933] FS Date: 10/6/2009						

Photo 1 of 3 : UCIP_FA_2020_37668_68391.jpg



View of concrete structure located on landward side.

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Unit No. 01 Sacramento River	Right	7.70	09/03/2020 09/03/2020	Luz Dial

LM Start	3.32	Rating **	M	Issue No.	71 (cont)
LM End	3.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.540803 °	38.540803 °
				-121.514255 °	-121.514255 °
DWR ID	17769				

Photo 2 of 3 : UCIP_FA_2020_37668_68390.jpg



Pump house located on landward side.

LM Start	3.32	Rating **	M	Issue No.	71 (cont)
LM End	3.32	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2020_37668_68389.jpg



Pipe visible on waterward side visible through dense vegetation.

LM Start	7.01	Rating **	A/W	Issue No.	38
LM End	7.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.513827 °	38.513713 °
				-121.554137 °	-121.554218 °
DWR ID	DWR_RD0900_01_s_2020_38				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

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Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	09/02/2020 09/02/2020	Luz Dial

LM Start	4.72	Rating **	A/W	Issue No.	13
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.519808 °	38.519808 °
				-121.582150 °	-121.582150 °
DWR ID	DWR_RD0900_02_f_2020_13				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Monitor longitudinal and transverse cracks.					

Photo 1 of 1 : FA_2020_RD0900_231_13_20200903_00032.jpg



View of longitudinal and transverse cracks on the landside slope. Fall 2020

LM Start	4.94	Rating **	M	Issue No.	16
LM End	4.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.516650 °	38.516045 °
				-121.582235 °	-121.582225 °
DWR ID	DWR_RD0900_02_f_2020_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	5.11	Rating **	M	Issue No.	17
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.514082 °	38.514082 °
				-121.582157 °	-121.582157 °
DWR ID	DWR_RD0900_02_f_2020_17				
Comment Code					
CR2 : Schedule repair of subsidence prior to the next inspection.					
Inspector Comment					
Repair longitudinal and transverse cracks.					

Photo 1 of 1 : FA_2020_RD0900_231_17_20200914_00033.jpg



View of desiccation cracks on the landside shoulder. Fall 2020

* 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 Yolo Bypass	Left	5.26	09/02/2020 09/02/2020	Luz Dial

LM Start	5.24	Rating **	A/W	Issue No.	18
LM End	5.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.512197 °	38.512197 °
				-121.582143 °	-121.582143 °
DWR ID	DWR_RD0900_02_f_2020_18				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Monitor desiccation cracks.					

No Photos

LM Start	5.45	Rating **	A/W	Issue No.	27
LM End	5.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.509217 °	38.509217 °
				-121.582140 °	-121.582140 °
DWR ID	DWR_RD0900_02_f_2018_27				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Monitor small desiccation cracks on the levee slope.					

Photo 1 of 1 : FA_2020_RD0900_231_27_20200902_00003.jpg



View of desiccation cracks on levee. Fall 2018

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