

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021**

**Reclamation District No. 0900 West Sacramento**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/08/2021 10/08/2021	Marvin Marshall

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

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>12</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		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	<b>0.00</b>	Rating **	A	Issue No.	<b>16</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_RD0900_01_s_2013_16				
Comment Code					
Inspector Comment					
The LMA attended a November 2019 flood fight training session.					

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 Sacramento River	Right	7.70	10/08/2021 10/08/2021	Marvin Marshall

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

LM Start	0.58	Rating **	A/W	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					
Rodent holes do not appear to be active.					

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					
The site is on private land and not accessible for inspection.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/08/2021 10/08/2021	Marvin Marshall

LM Start	2.28	Rating **	M	Issue No.	33
LM End	2.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.555082 °	38.555082 °
				-121.516065 °	-121.516065 °
DWR ID	DWR_RD0900_01_s _ 2020_33				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Mow vegetation to 20' from the crown on the WS slope.					

No Photos

LM Start	2.55	Rating **	C	Issue No.	26
LM End	2.64	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.551319 °	38.550090 °
				-121.514423 °	-121.513983 °
DWR ID					
Comment Code					
Inspector Comment					
2018 Site ID: SAC 56.5 R					
Status: Repaired					
2018 Field Notes: Site removed, Southport Setback levee complete.					
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. 2017 - Fresh toe erosion. Setback levee to be constructed.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/08/2021 10/08/2021	Marvin Marshall

LM Start	3.27	Rating **	C	Issue No.	27
LM End	3.48	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.541246 °	38.538689 °
				-121.513561 °	-121.515916 °
DWR ID					
Comment Code					
Inspector Comment					
2018 Site ID: SAC 55.7 R Status: Repaired 2018 Field Notes: Site removed, Southport Setback levee complete. 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. 2017 - Fresh toe erosion. Site upgraded to critical. A setback levee is under construction behind this site.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/08/2021 10/08/2021	Marvin Marshall

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-builts 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\_2021\_37668\_68391.jpg



View of concrete structure located on landward side.

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Unit No. 01 Sacramento River	Right	7.70	10/08/2021 10/08/2021	Marvin Marshall

LM Start	<b>3.32</b>	Rating **	M	Issue No.	<b>71 (cont)</b>
LM End	<b>3.32</b>	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\_2021\_37668\_68390.jpg



Pump house located on landward side.

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

Photo 3 of 3 : UCIP\_FA\_2021\_37668\_68389.jpg



Pipe visible on waterward side visible through dense vegetation.

LM Start	3.74	Rating **	A/W	Issue No.	24
LM End	3.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.536734 °	38.536734 °
				-121.520106 °	-121.520106 °
DWR ID	DWR_RD0900_01_f_2021_24				
Comment Code					
CR2 : Schedule repair of subsidence prior to the next inspection.					
Inspector Comment					
Cracking observed on the LS crown. Probing showed cracks are +4' deep approximately 100' long. No slumping or bulging of material was observed. This is on the setback levee, upstream of the Sacramento Yacht Club access road. LMA is scheduling repairs immediately.					

Photo 1 of 1 : FA\_2021\_RD0900\_230\_24\_20211103\_00016.jpg



Crown cracking on the LS shoulder. Fall 2021

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Unit No. 01 Sacramento River	Right	7.70	10/08/2021 10/08/2021	Marvin Marshall

LM Start	<b>7.01</b>	Rating **	C	Issue No.	<b>38</b>
LM End	<b>7.02</b>	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

**\* 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  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	10/08/2021 10/08/2021	Marvin Marshall

LM Start	4.15	Rating **	A/W	Issue No.	12
LM End	4.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.527967 °	38.527967 °
				-121.582135 °	-121.582135 °
DWR ID	DWR_RD0900_02_f_2020_12				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
There is a longitudinal crack along the LS shoulder.					

Photo 1 of 1 : FA\_2021\_RD0900\_231\_12\_20210823\_00002.jpg



View of longitudinal, desiccation crack along the landside shoulder. Fall 2020

LM Start	4.29	Rating **	A/W	Issue No.	43
LM End	4.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.526007 °	38.526007 °
				-121.582130 °	-121.582130 °
DWR ID	DWR_RD0900_02_f_2019_43				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Monitor small desiccation cracks.					

Photo 1 of 1 : FA\_2021\_RD0900\_231\_43\_20210823\_00007.jpg



View of desiccation crack 3" deep and 5' long. Fall 2019

LM Start	4.46	Rating **	A/W	Issue No.	44
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.523537 °	38.523537 °
				-121.582130 °	-121.582130 °
DWR ID	DWR_RD0900_02_f_2019_44				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Monitor small transverse cracks.					

Photo 1 of 1 : FA\_2021\_RD0900\_231\_44\_20211012\_00032.jpg



Desiccation cracking on the LS crown and slope. Fall 2021

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	10/08/2021 10/08/2021	Marvin Marshall

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\_2021\_RD0900\_231\_13\_20210823\_00003.jpg



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

LM Start	5.11	Rating **	A/W	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					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Monitor longitudinal and transverse cracks.					

Photo 1 of 1 : FA\_2021\_RD0900\_231\_17\_20210823\_00005.jpg



View of desiccation cracks on the landside shoulder. Fall 2020

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

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
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CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	10/08/2021 10/08/2021	Marvin Marshall

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	Cracking			38.509217 °	38.509217 °
				-121.582140 °	-121.582140 °
DWR ID	DWR_RD0900_02_f_2018_27				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Monitor small desiccation cracks on the levee slope.					

Photo 1 of 1 : FA\_2021\_RD0900\_231\_27\_20210823\_00006.jpg



View of desiccation cracks on levee. Fall 2018

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