

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	10/17/2019 10/17/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			o	o
				o	o
DWR ID	DWR_ST0008_01_s_2013_3				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			o	o
				o	o
DWR ID	DWR_ST0008_01_f_2017_4				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			o	o
				o	o
DWR ID	DWR_ST0008_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Yard has a written response plan and regular flood fight training.					

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 Bypass or North Levee	Right	1.74	10/17/2019 10/17/2019	Zach Jojola

LM Start	0.50	Rating **	C	Issue No.	10
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.604574 °	38.604574 °
				-121.568480 °	-121.568480 °
DWR ID	DWR_ST0008_01_s_2019_10				
Comment Code					
DE : Debris					
Inspector Comment					
Appliances were dumped on the landside shoulder.					

No Photos

LM Start	0.60	Rating **	C	Issue No.	8
LM End	0.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.603983 °	38.603983 °
				-121.570268 °	-121.570268 °
DWR ID	DWR_ST0008_01_f_2018_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Sac Yard fixed the collapsed beaver den on the waterside slope. This area should be monitored for future activity.					

No Photos

LM Start	0.73	Rating **	C	Issue No.	11
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.603458 °	38.603458 °
				-121.572490 °	-121.572490 °
DWR ID	DWR_ST0008_01_s_2019_11				
Comment Code					
DE : Debris					
Inspector Comment					
Furniture was dumped on the waterside shoulder.					

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 Bypass or North Levee	Right	1.74	10/17/2019 10/17/2019	Zach Jojola

LM Start	0.75	Rating **	C	Issue No.	12
LM End	0.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.603337°	38.603337°
				-121.572912°	-121.572912°
DWR ID	DWR_ST0008_01_s_2019_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
There is visible settlement on the crown on County Road 126. Recommend monitoring for further movement.					

No Photos

LM Start	0.87	Rating **	A/W	Issue No.	9
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.602871°	38.602871°
				-121.574960°	-121.574960°
DWR ID	DWR_ST0008_01_f_2018_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There possibly is a beaver den on the edge of the waterside berm. It is not within the levee prism. Recommend monitoring for activity.					

Photo 1 of 1 : FA_2019_ST0008_284_9_20191021_00015.jpg



View of the hole on the waterside toe rode. Fall 2019.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	10/17/2019 10/17/2019	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.	16
LM End	1.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.602169°	38.602169°
				-121.579000°	-121.579000°
DWR ID	19076				
Comment Code					
Inspector Comment					
DS_ID:19076 FS_ID:44787 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 122.1, August 1955, (RM 174)]. FS Date: 4/28/2015 2:44:05 PM					

Photo 1 of 3 : UCIP_FA_2019_44787_20605.jpg



Landside view: overview

LM Start	1.09	Rating **	A/W	Issue No.	16 (cont)
LM End	1.09	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_44787_20604.jpg



Landside view: remaining of concrete structure

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Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	10/17/2019 10/17/2019	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.	16 (cont)
LM End	1.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.602169°	38.602169°
				-121.579000°	-121.579000°
DWR ID	19076				
Comment Code					
Inspector Comment					
DS_ID:19076 FS_ID:44787 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 122.1, August 1955, (RM 174)]. FS Date: 4/28/2015 2:44:05 PM					

Photo 3 of 3 : UCIP_FA_2019_44787_20606.jpg



Landside view: remaining of concrete structure on drainage/slough

LM Start	1.14	Rating **	C	Issue No.	13
LM End	1.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.601930°	38.601930°
				-121.579807°	-121.579807°
DWR ID	DWR_ST0008_01_s_2019_13				
Comment Code					
DE : Debris					
Inspector Comment					
Appliances are blocking access to gate.					

No Photos

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Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	10/17/2019 10/17/2019	Zach Jojola

LM Start	1.43	Rating **	A/W	Issue No.	7
LM End	1.59	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.600456°	38.599713°
				-121.584883°	-121.587668°
DWR ID	DWR_ST0008_01_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: SAP 1.4 R Status: Critical 2017 Field Notes: New site, immediately upgraded to critical. Start of slump failure, deep cracks along levee crest, concern that a large slump failure will occur from the next heavy rain. Site History:					

Photo 1 of 2 : FA_2019_ST0008_284_7_20191021_00016.jpg



View of the waterside slope. Fall 2019.

LM Start	1.43	Rating **	A/W	Issue No.	7 (cont)
LM End	1.59	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_ST0008_284_7_20190829_00001.jpg



View of the cracking on the crown. Fall 2018.

LM Start	1.74	Rating **	A/W	Issue No.	15
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.599546°	38.599546°
				-121.590235°	-121.590235°
DWR ID	DWR_ST0008_01_s_2018_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is runoff erosion on the oversized levee section located on the waterside levee slope. Recommend monitoring.					

Photo 1 of 1 : FA_2019_ST0008_284_15_20190829_00005.jpg



View of erosion on waterside slope. Spring 2017.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	10/17/2019 10/17/2019	Zach Jojola

LM Start	1.26	Rating **	C	Issue No.	1
LM End	1.79	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.597023°	38.594527°	
			-121.577558°	-121.586638°	
DWR ID	LMA-55				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:260 Site Designation:LMA-55 Repair Type: Erosion Rating:Area of Concern Field Date:6/5/2017 Notes: Minor wavewash on landside levee slope; no active erosion; no cross section taken, photo only. The erosion is not within the prism. Sac Yard will fix after vegetation gets burned. Fall 2018. Repaired as of inspection date.					

No Photos

LM Start	1.33	Rating **	A	Issue No.	2
LM End	1.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.596876°	38.596876°	
			-121.578873°	-121.578873°	
DWR ID	DWR_ST0008_02_f_2019_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA maintains the vegetation at a high level.					

Photo 1 of 1 : FA_2019_ST0008_285_2_20191021_00007.jpg



View of the maintained landside slope. Fall 2019.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	10/17/2019 10/17/2019	Zach Jojola

LM Start	1.77	Rating **	C	Issue No.	7
LM End	1.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.594752°	38.594752°
				-121.586558°	-121.586558°
DWR ID	DWR_ST0008_02_s_2019_7				
Comment Code					
MA : Material					
Inspector Comment					
It appears that dirt was placed on the crown to block vehicle access at the end of the unit.					

No Photos

LM Start	1.77	Rating **	C	Issue No.	5
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.594743°	38.594743°
				-121.586556°	-121.586556°
DWR ID	DWR_ST0008_02_s_2016_5				
Comment Code					
PR : Prunings					
Inspector Comment					
This is a seasonal pile but gets burned by the LMA each year.					

No Photos

LM Start	1.77	Rating **	A/W	Issue No.	8
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.594710°	38.594710°
				-121.586582°	-121.586582°
DWR ID	DWR_ST0008_02_s_2019_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This is a runoff location, but it is not within the levee prism. Recommend monitoring.					

Photo 1 of 1 : FA_2019_ST0008_285_8_20190829_00006.jpg



View of erosion on waterside levee slope. Spring 2017.

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