

**Flood Control Project Maintenance  
Levee Inspections  
Fall 2023 Levee Maintenance Deficiency Summary Report**

**Sacramento River Basin**

<b>RD0827 ‡</b> <b>Reclamation District No. 0827 Elkhorn</b>	Overall LMA Rating	Total LMA Miles						
	<b>U</b>	<b>4.12</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation		0.19	0.76	18.43%				
Trim / Thin Trees		0.03	0.12	2.91%				
Encroachments					0.05	0.17		
Animal Control		0.01	0.04	0.97%				
Erosion / Rills	0.03		0.03	0.73%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.24%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>LMA Totals:</i>	0.04	0.23	0.96	23.28%	0.07	0.17	0.00	0.00

<b>Unit No. 01 Sacramento River RB</b>	Overall Unit Rating	Total Unit Miles						
RD0827	<b>M</b>	<b>1.34</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees		0.03	0.12	8.95%				
Encroachments					0.05	0.17		
Animal Control		0.01	0.04	2.98%				
Erosion / Rills	0.03		0.03	2.24%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.75%				
<i>Unit Totals:</i>	0.04	0.04	0.20	14.91%	0.05	0.17	0.00	0.00

<b>Unit No. 02 Yolo Bypass LB</b>	Overall Unit Rating	Total Unit Miles						
RD0827	<b>U</b>	<b>2.78</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation		0.19	0.76	27.32%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.00	0.19	0.76	27.32%	0.02	0.00	0.00	0.00

‡ Some areas within the LMA are under construction and as such, the contractor has operation and maintenance obligations in those areas during project construction and closeout.

**Flood Control Project Maintenance  
Levee Inspections  
LMA District Cover Sheet**

**Reclamation District No. 0827 Elkhorn**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet**

**Reclamation District No. 0827 Elkhorn**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	1.34
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/18/2023 - 4/18/2023		9/28/2023 - 9/28/2023	
DWR Inspector	Nate Hicks		Nate Hicks	
Accompanied By	Billy Mattos RD537			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	09/28/2023 09/28/2023	Nate Hicks

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				o
					o
DWR ID	DWR_RD0827_01_s_2013_5				
Comment Code					
OM : O&M Manuals					
Inspector Comment					
RD 827 has a copy of the levee manuals.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				o
					o
DWR ID	DWR_RD0827_01_f_2020_7				
Comment Code					
ES : Emergency Supplies & Equipment					
Inspector Comment					
RD 827 shares a maintained stockpile of Flood Response Material with RD 785.					

No Photos

LM Start		Rating **	A	Issue No.	9		
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_RD0827_01_s_2020_9						
Comment Code							
FP : Flood Preparedness & Training							
Inspector Comment							
RD 827 works jointly with RD 785 on Flood Preparedness and Training.							

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	09/28/2023 09/28/2023	Nate Hicks

LM Start	0.00	Rating **	U	Issue No.	30
LM End	0.16	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.675168°	38.673575°
				-121.630530°	-121.628398°
DWR ID	DWR_RD0827_01_s_2020_30				
Comment Code					
EQ : Equipment					
Inspector Comment					
Sierra Railroad has placed track and rail cars on the crown that prevent vehicle access. They have constructed a new ramp and berm to access the portion of levee that does not have track on the crown. Shed and shipping container are blocking access.					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_30\_20230927\_00009.jpg



View of shed, shipping container and rail car on the levee crown (Spring 2023).

LM Start	0.03	Rating **	U	Issue No.	20
LM End	0.03	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.674912°	38.674912°
				-121.630133°	-121.630133°
DWR ID	DWR_RD0827_01_f_2019_20				
Comment Code					
BU : Building					
Inspector Comment					
Sacramento River Train has constructed their office and a ticket booth on the waterside shoulder and crown.					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_20\_20231002\_00012.jpg



View of office on levee crown (Fall 2023).

LM Start	0.24	Rating **	M	Issue No.	12
LM End	0.28	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.672763°	38.672357°
				-121.627371°	-121.626858°
DWR ID	DWR_RD0827_01_s_2016_12				
Comment Code					
MA : Material					
Inspector Comment					
Railroad rails and ties on the levee crown.					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_12\_20231002\_00013.jpg



View of railroad ties and rails on levee crown (Fall 2023).

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	09/28/2023 09/28/2023	Nate Hicks

LM Start	0.28	Rating **	U	Issue No.	6
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.672174°	38.672174°
				-121.626995°	-121.626995°
DWR ID	DWR_RD0827_01_f _ 2023_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes are located on the landside slope.					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_6\_20231002\_00010.jpg



View of rodent holes on landside slope (Fall 2023).

LM Start	0.30	Rating **	M	Issue No.	11
LM End	0.30	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.672157°	38.672157°
				-121.626596°	-121.626596°
DWR ID	DWR_RD0827_01_f_2022_11				
Comment Code					
MA : Material					
Inspector Comment					
Railroad rails on the waterside shoulder.					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_11\_20230927\_00005.jpg



View of railroad ties on the waterside shoulder. Fall 2022.

LM Start	0.53	Rating **	A/W	Issue No.	8
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			38.669615°	38.669615°
				-121.623802°	-121.623802°
DWR ID	DWR_RD0827_01_f_2023_8				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					
Minor runoff on the waterside slope. Recommend monitoring.					

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	<b>N : Not Inspected/Rated</b> 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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	09/28/2023 09/28/2023	Nate Hicks

LM Start	0.61	Rating **	A/W	Issue No.	22
LM End	0.92	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.668873 °	38.665750 °
				-121.622513 °	-121.618523 °
DWR ID	DWR_RD0827_01_s_2012_22				
Comment Code					
V5 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_22\_20230927\_00008.jpg



Revegetation site, Spring 2012.

LM Start	0.64	Rating **	M	Issue No.	10
LM End	0.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			38.668424 °	38.668090 °
				-121.622451 °	-121.622038 °
DWR ID	DWR_RD0827_01_f _ 2023_10				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_10\_20231002\_00011.jpg



View of erosion on landside slope (Fall 2023).

LM Start	1.02	Rating **	A/W	Issue No.	18
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			38.664690 °	38.664690 °
				-121.617266 °	-121.617266 °
DWR ID	DWR_RD0827_01_f_2018_18				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					
Minor runoff on the waterside slope. Recommend monitoring.					

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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	09/28/2023 09/28/2023	Nate Hicks

LM Start	1.03	Rating **	U	Issue No.	4
LM End	1.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.664645°	38.664645°
				-121.617048°	-121.617048°
DWR ID	DWR_RD0827_01_s_2023_4				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_4\_20230927\_00004.jpg



View of fallen trees and branches on the levee slope (Spring 2023).

LM Start	1.09	Rating **	A/W	Issue No.	17
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			38.663946°	38.663946°
				-121.616453°	-121.616453°
DWR ID	DWR_RD0827_01_s_2019_17				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					
Previous runoff site that has filled in with material. Recommend monitoring.					

No Photos

LM Start	1.15	Rating **	U	Issue No.	3
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.663195°	38.663195°
				-121.615777°	-121.615777°
DWR ID	DWR_RD0827_01_s_2023_3				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					

Photo 1 of 1 : FA\_2023\_RD0827\_187\_3\_20230927\_00003.jpg



View of fallen trees and branches on the levee slope (Spring 2023).

<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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	09/28/2023 09/28/2023	Nate Hicks

LM Start	1.27	Rating **	U	Issue No.	2
LM End	1.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.661910°	38.661910°
				-121.614324°	-121.614324°
DWR ID	DWR_RD0827_01_s_2023_2				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					



View of fallen trees and branches on the levee slope (Spring 2023).

LM Start	1.32	Rating **	M	Issue No.	1
LM End	1.32	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.661318°	38.661318°
				-121.613737°	-121.613737°
DWR ID	DWR_RD0827_01_s_2023_1				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Vehicle ruts on the levee crown.					



View of vehicle ruts on levee crown (Spring 2023).

<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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**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet**

**Reclamation District No. 0827 Elkhorn**

Waterway			Bank	Unit Miles
Unit No. 02 Yolo Bypass			Left	2.78
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/18/2023 - 4/18/2023		9/28/2023 - 9/28/2023	
DWR Inspector	Nate Hicks		Nate Hicks	
Accompanied By	Zach Jojola DWR			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	09/28/2023 09/28/2023	Nate Hicks

LM Start	0.03	Rating **	U	Issue No.	4
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.676352°	38.673628°
				-121.642863°	-121.642589°
DWR ID	DWR_RD0827_02_f_2023_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation off the landside slope.					

Photo 1 of 1 : FA\_2023\_RD0827\_188\_4\_20231006\_00012.jpg



View of vegetation on landside slope (Fall 2023).

LM Start	0.10	Rating **	C	Issue No.	5
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.675397°	38.675397°
				-121.643025°	-121.643025°
DWR ID	DWR_RD0827_02_s_2021_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.38	Rating **	A/W	Issue No.	8
LM End	2.78	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.671453°	38.641252°
				-121.642055°	-121.620500°
DWR ID	DWR_RD0827_02_f_2023_8				
Comment Code					
LC : Authorized Levee Construction					
Inspector Comment					
Levee is being degraded and not accessible. The maintenance issues found during past levee inspections will be rated A/W until the levee becomes accessible again.					

Photo 1 of 1 : FA\_2023\_RD0827\_188\_8\_20231006\_00011.jpg



View from the new levee being constructed and looking at the existing levee being degraded (Fall 2023).

<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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	09/28/2023 09/28/2023	Nate Hicks

LM Start	1.93	Rating **	A/W	Issue No.	3
LM End	1.93	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.652326°	38.652326°
				-121.627306°	-121.627306°
DWR ID	DWR_RD0827_02_s_2023_3				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					



View of vehicle rutting on the levee crown (Spring 2023).

LM Start	2.62	Rating **	A/W	Issue No.	6
LM End	2.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.643375°	38.643375°
				-121.621776°	-121.621776°
DWR ID	DWR_RD0827_02_f_2023_6				
Comment Code					
DE : Debris					
Inspector Comment					
Fridge on the waterside slope.					

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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	09/28/2023 09/28/2023	Nate Hicks

LM Start	2.72	Rating **	A/W	Issue No.	13
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.642139°	38.642028°
				-121.620750°	-121.620667°
DWR ID	RD 827-01				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Sloughing on the landside slope near pump. Movement has stabilized and the LMA will be constructing a setback levee within the next few years. The current levee will be degraded. Recommend monitoring.					
Site ID No:199					
Site Designation:RD 827-01					

Photo 1 of 1 : FA\_2023\_RD0827\_188\_13\_20230927\_00004.jpg



View of sloughing on the landside slope. Fall 2020.

<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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	09/28/2023 09/28/2023	Nate Hicks

LM Start	2.73	Rating **	M	Issue No.	14	
LM End	2.73	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.641922°	38.641922°	
				-121.620884°	-121.620884°	
DWR ID	21151					
Comment Code						
Inspector Comment						
DS_ID:21151 FS_ID:74199 EP_NO: 3277 Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit Crossing Status: Found UCIP Comments: 03/17/2022 Record remains Non-Urgent. Previous comments suggest that the crossing has been removed and replaced under maintenance in 2008. Unable to find a permit for modification. Irrigation ditch on landside causing erosion of landside ramp. (O.Yakimov - DWR UCIP) 03/18/2014 Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. Landward slope sloughing--does not appear to be associated with crossing. Landward slope is being monitored by LMA. (O.Magana - DWR UCIP) FIELD_STRUCT_DESC: 18-inch (not 20-inch as noted in desk study) steel drainage pipe through the levee, 4 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at waterside (WS) shoulder. Pump on pipe structure in drainage ditch at landside (LS) toe. Rock revetment on WS slope. (20-inch drainage pipe authorized under Permit No. 3277, 1960-Reclamation District No. 827; no permit found authorizing the 18-inch pipe) [Additional Reference(s): DWR Levee Logs, 2005] FS Date: 3/17/2022 11:22:36 AM						

LM Start	<b>2.73</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2023\_74199\_110777.jpg



Land-Side: View of levee slope looking from crown. Pump on piled platform at levee toe

Photo 2 of 3 : UCIP\_FA\_2023\_74199\_110776.jpg



Water-Side: View of levee slope looking from crown. Siphon breaker on pipe at levee shoulder

* Location		** Rating		+ Issue Type	
LS: Land Side	N/A: Not Applicable	A: Acceptable	N: Not Inspected/Rated	Ma: Maintenance Deficiency	
WS: Water Side		M: Minimally Acceptable	C: Corrected	Ob: Design & System Obsolescence	
CR: Crown		U: Unacceptable	A/W: Acceptable but Monitor & Maintain	En: Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	09/28/2023 09/28/2023	Nate Hicks

LM Start	<b>2.73</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.641922°	38.641922°	
			-121.620884°	-121.620884°	
DWR ID	21151				

Photo 3 of 3 : UCIP\_FA\_2023\_74199\_110779.jpg



Land-Side: Landside ramp erosion caused by irrigation ditch

LM Start	2.73	Rating **	A/W	Issue No.	7
LM End	2.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.641894°	38.641894°
				-121.620868°	-121.620868°
DWR ID	DWR_RD0827_02_f_2022_7				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Cracking on the waterside shoulder. Recommend monitoring.					

Photo 1 of 1 : FA\_2023\_RD0827\_188\_7\_20230927\_00003.jpg



View of crack on the waterside shoulder. Fall 2022.

<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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	09/28/2023 09/28/2023	Nate Hicks

LM Start	2.75	Rating **	M	Issue No.	15	
LM End	2.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.641633°	38.641633°	
				-121.620725°	-121.620725°	
DWR ID	21169					
Comment Code						
Inspector Comment						
DS_ID:21169 FS_ID:74200 EP_NO: 5611 Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit Crossing Status: Found UCIP Comments: 03/17/2022 Record remains Non-Urgent. Piles of old pumping platform observed in irrigation canal on landside. New piled pumping platform and pump installed in the canal. Pipe makes a turn from pump to landside levee slope. Unable to find a permit for modification. No permit has been identified authorizing installation of pipe. (O.Yakimov - DWR UCIP) 03/18/2014 Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. (O.Magana - DWR UCIP) FIELD_STRUCT_DESC: [RD No. 827 Pumping Plant] 22-inch (not 24-inch as mentioned in desk study) steel drainage pipe through the levee, 8 feet below the crown. Corrugated metal cutoff wall around pipe at center of levee. Siphon breaker on waterside (WS) slope. Flap gate on WS end. Pipe is exposed along WS slope. (portion of pipe was removed and replaced, from landside to waterside shoulder, under Permit No. 5611 (1968)). [Additional Reference(s): DWR Levee Logs, 2005. USACE Sacramento O&M Manual Unit No. 122 Part No. 1, August 1955, (Station 3+75)] FS Date: 3/17/2022 11:29:39 AM						

LM Start	2.75	Rating **	M	Issue No.	15 (cont)
LM End	2.75	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2023\_74200\_110786.jpg



Water-Side: View of levee slope looking from crown. Siphon breaker on pipe at levee shoulder

Photo 2 of 3 : UCIP\_FA\_2023\_74200\_110784.jpg



Land-Side: New pump on piled platform in irrigation canal

<b>* Location</b> LS: Land Side    N/A: Not Applicable WS: Water Side CR: Crown		<b>** Rating</b> A: Acceptable                      N: Not Inspected/Rated M: Minimally Acceptable        C: Corrected U: Unacceptable                  A/W: Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2023**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	09/28/2023 09/28/2023	Nate Hicks

LM Start	2.75	Rating **	M	Issue No.	15 (cont)
LM End	2.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641633°	38.641633°
				-121.620725°	-121.620725°
DWR ID	21169				

Photo 3 of 3 : UCIP\_FA\_2023\_74200\_110785.jpg



Land-Side: View of levee slope looking from crown. Remnants of pumping platform in irrigation canal

<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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