

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0827	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 0827 Elkhorn	M *	4.12						
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>								
Encroachments					0.81			
Animal Control	0.04		0.04	0.97%				
Slope Stability	0.02		0.02	0.49%				
Erosion / Bank Caving	0.02	0.02	0.10	2.43%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.24%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.05	0.01		
<i>LMA Totals:</i>	0.09	0.02	0.17	4.12% *	0.86	0.01	0.00	0.00
Unit No. 01 Sacramento River RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0827	M *	1.34						
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>								
Encroachments					0.30			
Animal Control	0.01		0.01	0.75%				
Slope Stability	0.01		0.01	0.75%				
Erosion / Bank Caving	0.02	0.01	0.06	4.47%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.04	0.01	0.08	5.97% *	0.32	0.00	0.00	0.00
Unit No. 02 Yolo Bypass LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0827	M *	2.78						
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>								
Encroachments					0.51			
Animal Control	0.03		0.03	1.08%				
Slope Stability	0.01		0.01	0.36%				
Erosion / Bank Caving		0.01	0.04	1.44%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.36%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.03	0.01		
<i>Unit Totals:</i>	0.05	0.01	0.09	3.24% *	0.54	0.01	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

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

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

* Overall LMA Threshold Percent is less than
10.00%; however, U Rated Miles are present,
so the Overall LMA Rating is M instead of A.

† 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

Fall 2016 Levee Inspection Results

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	4/19/2016 - 4/19/2016		10/31/2016 - 10/31/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By	Dan Ramos RD0827		Dan Ramos RD0827	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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:

- completion of the inspection
- any changes other than the results of normal maintenance
- 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 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/31/2016 10/31/2016	Oleg Yakimov

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			°	°
				°	°
DWR ID	DWR_RD0827_01_s_2013_5				
Comment Code					
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			°	°
				°	°
DWR ID	DWR_RD0827_01_s_2013_7				
Comment Code					
Inspector Comment					
RD 827 shares a maintained stockpile of Flood Response Material with RD 784.					

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			°	°
				°	°
DWR ID	DWR_RD0827_01_f_2014_9				
Comment Code					
Inspector Comment					
RD 827 works jointly with RD 784 on Flood Preparedness and 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/31/2016 10/31/2016	Oleg Yakimov

LM Start	0.00	Rating **	M	Issue No.	215
LM End	0.00	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.661210 °	38.661210 °
				-121.613030 °	-121.613030 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39703 DS_ID:21163 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: No pipe was found only what appears to be an abandoned pump house on landward side. Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 30-inch steel pipe through the levee, 9.1 feet below the crown. Pump in pumphouse on landward side not waterward side as mentioned in desk study. (USACE-1955). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (RM 69.50). FS Date: 3/18/2014					

No Photos

LM Start	0.11	Rating **	M	Issue No.	10
LM End	0.11	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.674133 °	38.674133 °
				-121.629097 °	-121.629097 °
DWR ID	DWR_RD0827_01_s_2016_10				
Comment Code					
ST : Stairway					
Inspector Comment					
Railroad has put steps on the crown for the tourist train from the West City of Sac water plant. Stairs are not permitted and was placed this year Spring 2016.					

Photo 1 of 1 : FA_2016_RD0827_187_10_20160913_00002.jpg



View of the stairs on the crown of the levee looking downstream. Spring 2016.

* 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. 0827 Elkhorn

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/31/2016 10/31/2016	Oleg Yakimov

LM Start	0.51	Rating **	M	Issue No.	13
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.669929 °	38.669929 °
				-121.623776 °	-121.623776 °
DWR ID	DWR_RD0827_01_s_2016_13				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Rills caused by rain.					

Photo 1 of 2 : FA_2016_RD0827_187_13_20160913_00005.jpg



View of the erosion on the landward side of the levee looking downstream. Spring 2016.

LM Start	0.51	Rating **	M	Issue No.	13 (cont)
LM End	0.51	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD0827_187_13_20161031_00014.jpg



Updated view of runoff erosion site. LS slope. Fall 2016.

LM Start	0.61	Rating **	A/W	Issue No.	22
LM End	0.92	Issue Type +	Ma	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					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD0827_187_22_20160913_00006.jpg



Revegetation site spring 2012.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/31/2016 10/31/2016	Oleg Yakimov

LM Start	0.61	Rating **	A/W	Issue No.	22 (cont)
LM End	0.92	Issue Type +	Ma	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					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 2 of 2 : FA_2016_RD0827_187_22_20160913_00007.jpg



View of the revegetation site on the waterward side of the levee looking downstream. Fall 2015.

LM Start	0.73	Rating **	M	Issue No.	214	
LM End	0.73	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.667731 °	38.667731 °	
				-121.620992 °	-121.620992 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:38983						
DS_ID:21147						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner to obtain additional information for this crossing. This crossing does not match original description listed in desk study. Need to coordinate with owner to obtain permit number authorizing modification.						
FIELD_STRUCT_DESC: 14-inch (not 16-inch as listed in desk study) pipe through the levee, 10.3 feet below the crown. 10-inch bypass pipe on waterward side. Siphon breaker on landward (not waterward) shoulder. Pump on platform (not mounted on 48-inch concrete pipe as described in desk study) on waterward bank. Metal (not wooden) walkway to the pump. 3/4-inch conduit through levee at unknown depth.						
FS Date: 3/18/2014						

Photo 1 of 2 : UCIP_FA_2016_38983_59737.jpg



Platform for pump located on waterward side.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/31/2016 10/31/2016	Oleg Yakimov

LM Start	0.73	Rating **	M	Issue No.	214 (cont)	
LM End	0.73	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.667731 °	38.667731 °	
				-121.620992 °	-121.620992 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:38983						
DS_ID:21147						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner to obtain additional information for this crossing. This crossing does not match original description listed in desk study. Need to coordinate with owner to obtain permit number authorizing modification.						
FIELD_STRUCT_DESC: 14-inch (not 16-inch as listed in desk study) pipe through the levee, 10.3 feet below the crown. 10-inch bypass pipe on waterward side. Siphon breaker on landward (not waterward) shoulder. Pump on platform (not mounted on 48-inch concrete pipe as described in desk study) on waterward bank. Metal (not wooden) walkway to the pump. 3/4-inch conduit through levee at unknown depth.						
FS Date: 3/18/2014						

Photo 2 of 2 : UCIP_FA_2016_38983_59736.jpg



Pipe visible on waterward side.

LM Start	0.96	Rating **	M	Issue No.	213
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.665307 °	38.665307 °
				-121.617982 °	-121.617982 °
DWR ID	DWR_RD0827_01_s_2015_213				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0827_187_213_20160913_00009.jpg



View of the slope instability on the waterward side of the levee looking downstream. Spring 2016.

* 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. 0827 Elkhorn

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

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)			M *	
Date of Inspection	4/19/2016 - 4/19/2016		10/31/2016 - 11/7/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By	Dan Ramos RD0827		Dan Ramos RD0827	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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:

- completion of the inspection
- any changes other than the results of normal maintenance
- 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 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	0.02	Rating **	U	Issue No.	10
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.676549 °	38.676549 °
				-121.642703 °	-121.642703 °
DWR ID	DWR_RD0827_02_f_2015_10				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
It seems like someone poured water onto the levee slope and caused an erosion on the slope.					

LM Start	0.02	Rating **	U	Issue No.	10 (cont)
LM End	0.02	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_RD0827_188_10_20160913_00004.jpg



View of the erosion on the landward side of the levee looking downstream. Fall 2015.

Photo 2 of 2 : FA_2016_RD0827_188_10_20160913_00005.jpg



It seems someone poured a large amount of water over the levee slope and caused the erosion. Fall 2015.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	0.02	Rating **	M	Issue No.	2
LM End	0.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.676440 °	38.669401 °
				-121.642747 °	-121.641417 °
DWR ID	DWR_RD0827_02_f_2012_2				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0827_188_2_20160913_00001.jpg



View of the ditch on the landward side of the levee looking downstream. Fall 2015.

LM Start	0.11	Rating **	M	Issue No.	7
LM End	0.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.675326 °	38.675326 °
				-121.643042 °	-121.643042 °
DWR ID	DWR_RD0827_02_f_2016_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0827_188_7_20161031_00021.jpg



Rodent holes on LS levee slope. Fall 2016.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	0.64	Rating **	M	Issue No.	390
LM End	0.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.667880 °	38.667880 °
				-121.640587 °	-121.640587 °
DWR ID	DWR_RD0827_02_s_2015_390				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0827_188_390_20160913_00008.jpg



View of the burrow on the water ward side of the levee looking upstream.
Spring 2015.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	1.00	Rating **	M	Issue No.	394
LM End	1.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.663485 °	38.663485 °
				-121.637021 °	-121.637021 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50065
DS_ID:24844
EP_NO: 17403
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 9/27/2016 Need to coordinate with Greg Lucas (gregory.lucas@crc.com) with California Resources Corporation to determine if line will be brought online. Crossing was downgraded from Urgent to Non-Urgent--new owner has not brought the pipe online. New owner will need to update permit name and if line becomes active markers will be required per Title 23. (DWR UCIP - omagana)9/02/2016 Meet with Jimmy Preston from California Resources Corporation at site. Alignment of crossing was confirmed (new location is approximately 290 feet upstream from previous point)--report has been updated. Pending action -- Name Change (DWR UCIP - omagana)9/01/2016 Email was sent to Greg Lucas from California Resources Corporation with an updated UCIP detailed report and Central Valley Flood Protection Board (CVFPB) name change form. New owner will need to update permit information with the CVFPB to be compliant with Title 23 requirements. (DWR UCIP - omagana)8/31/2016 New owner--California Resources Corporation. Gas line is currently not in use. Meet with Greg Lucas, Assistant Production Coordinator from California Resources Corporation and Steve Stein from Noble Methan, Inc. to clarify current status of crossing and determine crossing alignment. Gas well is part of the gas line appurtenances. Gas line alignment is still pending--California Resources Corporation will send out someone to confirm alignment. Crossing is missing markers, if line becomes active markers will be needed on both the WS and LS to comply with Title 23--encouraged owner to contact CVFPB. (DWR UCIP - omagana)8/30/2016 Coordinating with AA Production Services, Inc. to determine location of where crossing goes through levee. It appears that the gas well located on LS is not part of this crossing. (DWR UCIP - omagana)8/04/2016 Meet with Bill Mattos, representative of RD 827, and he took me to the gas well visible from levee crown. Mr. Mattos was unable to confirm if gas well and pipeline that goes through the levee were connected. 3/18/2014 No markers visible on either banks. Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: [Hanks 34-2] 2.375-inch steel natural gas pipe through the levee, 30 feet below the crown and under (bored) Tule Canal. Gas well is located on the landside (LS) approximately 994 feet from levee crown. California Resources Corporation acquired AA Production Services, Inc. The new owner of the 2.375-inch gas pipe is California Resources Corporation. (Permit No. 17403, 2001 - AA Production Services, Inc.)

Photo 1 of 2 : UCIP_FA_2016_50065_75673.jpg



View of WS--Tule Canal.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

FS Date: 8/4/2016

LM Start	1.00	Rating **	M	Issue No.	394 (cont)
LM End	1.00	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_50065_75672.jpg



View of levee crown at crossing--yellow flag markers visible on both WS and LS shoulder.

LM Start	2.01	Rating **	M	Issue No.	9
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.651270 °	38.651270 °
				-121.626661 °	-121.626661 °
DWR ID	DWR_RD0827_02_f_2016_9				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0827_188_9_20161107_00023.jpg



View of crown depression site. Fall 2016.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	2.03	Rating **	U	Issue No.	393
LM End	2.03	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.651052 °	38.651052 °
				-121.626501 °	-121.626501 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50030
DS_ID:21159
EP_NO: 15904
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 8/31/2016 Meet with Greg Lucas, Assistant Production Coordinator from California Resources Corporation and Steve Steim from Noble Methan, Inc. to discuss the status of a different line upstream. Mr. Steve Steim was aware of the 3-inch line by Two Bay Petroleum as known as a PG&E old pipe at this location. According to Steve Stein the appurtenances previously located on the landside have been removed and the 3-inch line abandoned. Need to contact owner to confirm status of crossing. If crossing is no longer in use the owner will need to coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)8/04/2016 No markers found on either WS or LS. Need to coordinate with owner to determine status of crossing. (DWR UCIP - omagana)3/10/2015 Sign missing on WS and LS. Need to confirm status of crossing with permittee. Appears abandoned. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 3-inch steel pipe through the levee, 20 feet below the crown. Sign on waterside (WS) (not found 2015). Yellow pipe visible east of ditch approximately 150 feet off landside (LS) toe.
Contact Number 415-459-3445 for Two Bay Petroleum also referred as Pacific Energetics, Inc. (Permit No. 15904, 1992 - Two Bay Petroleum)
FS Date: 8/4/2016

LM Start	2.03	Rating **	U	Issue No.	393 (cont)
LM End	2.03	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_FA_2016_50030_73360.jpg



View of LS.

Photo 2 of 2 : UCIP_FA_2016_50030_73361.jpg



Pipe visible east of ditch approximately 150 ft off LS toe.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	2.18	Rating **	M	Issue No.	388
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.649108 °	38.649108 °
				-121.625296 °	-121.625296 °
DWR ID	DWR_RD0827_02_s_2015_388				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No evidence of rodent activity during Fall 2016 inspection, but the rodent hole is still present.					

No Photos

LM Start	2.29	Rating **	M	Issue No.	24
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.647703 °	38.647703 °
				-121.624450 °	-121.624450 °
DWR ID	DWR_RD0827_02_s_2012_24				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Cracking along the levee slope is less than 200 feet in length. Monitor the slope for changes in cracking.					

Photo 1 of 1 : FA_2016_RD0827_188_24_20160913_00007.jpg



A bulge in the levee slope. Photo fall 2012.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	2.73	Rating **	M	Issue No.	392
LM End	2.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641922 °	38.641922 °
				-121.620884 °	-121.620884 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:38984
DS_ID:21151
EP_NO: 3277
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 18-inch (not 20-inch as noted in desk study) steel drainpipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at waterward shoulder. Pump on pipe structure in drainage ditch at landward toe. Rock revetment on waterward slope. Pipe retained through levee and updates required to crossing under Permit No. 3277 (1960).
FS Date: 3/18/2014

LM Start	2.73	Rating **	M	Issue No.	392 (cont)
LM End	2.73	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_38984_59769.jpg



View of pipe visible on waterward side.

Photo 2 of 2 : UCIP_FA_2016_38984_59768.jpg



View of landward side.

* 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**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	2.75	Rating **	M	Issue No.	391
LM End	2.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641633 °	38.641633 °
				-121.620725 °	-121.620725 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:33032
DS_ID:21169
EP_NO: 5611
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: [RD No. 827 Pumping Plant] 22-inch (not 24-inch as mentioned in desk study) steel drainpipe through the levee, 8.0 feet below the crown. CM cutoff wall around pipe at center of levee. Siphon breaker on waterward slope. Flap gate on waterward end. Pipe is exposed along waterward slope. (USACE-1955). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Station 3+75). Portion of pipe was removed and replaced, from landward side to waterward shoulder, under Permit No. 5611 (1968).
FS Date: 3/18/2014

LM Start	2.75	Rating **	M	Issue No.	391 (cont)
LM End	2.75	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_33032_59778.jpg



Pipe exposed on waterward side.

Photo 2 of 2 : UCIP_FA_2016_33032_59777.jpg



Pump station located on landward side.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/31/2016 11/07/2016	Oleg Yakimov

LM Start	2.76	Rating **	M	Issue No.	8
LM End	2.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.641516 °	38.641516 °
				-121.620674 °	-121.620674 °
DWR ID	DWR_RD0827_02_f_2016_8				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0827_188_8_20161107_00022.jpg



Prunings on waterside slope. Fall 2016.

* 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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