

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

NA0010	Overall LMA Rating	Total LMA Miles						
Lower San Joaquin Levee District	U	191.27						
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	22.70	33.89	158.26	82.74%				
Trim / Thin Trees	0.05	0.02	0.13	0.07%				
Encroachments	0.06		0.06	0.03%	1.19	0.92		
Animal Control	2.08	0.08	2.40	1.25%				
Slope Stability	0.99	0.01	1.03	0.54%				
Erosion / Bank Caving	0.13	0.47	2.01	1.05%				
Crown Surface / Depressions / Rutting	11.09		11.09	5.80%				
Repair Gates		0.01	0.04	0.02%				
<i>Supplemental</i>								
DWR UCIP Field Study					2.91	0.06		
<i>LMA Totals:</i>	37.10	34.48	175.02	91.50%	4.10	0.98	0.00	0.00
Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
NA0010	U	22.52						
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		4.98	19.92	88.46%				
Trim / Thin Trees	0.01		0.01	0.04%				
Encroachments	0.01		0.01	0.04%	0.01	0.54		
Animal Control	0.04	0.01	0.08	0.36%				
Erosion / Bank Caving		0.01	0.04	0.18%				
Crown Surface / Depressions / Rutting	1.09		1.09	4.84%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.69	0.02		
<i>Unit Totals:</i>	1.15	5.00	21.15	93.92%	0.70	0.56	0.00	0.00
Unit No. 02A San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	7.87						
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	2.66		2.66	33.80%				
Encroachments					0.01			
Animal Control	0.01		0.01	0.13%				
Erosion / Bank Caving		0.01	0.04	0.51%				
Crown Surface / Depressions / Rutting	2.30		2.30	29.23%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.19			
<i>Unit Totals:</i>	4.97	0.01	5.01	63.66%	0.20	0.00	0.00	0.00

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 02B San Joaquin River LB		Overall Unit Rating	Total Unit Miles						
NA0010		U	5.92						
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	0.02	0.01	0.06	1.01%					
Encroachments	0.03		0.03	0.51%					
Crown Surface / Depressions / Rutting	1.23		1.23	20.78%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.12				
<i>Unit Totals:</i>	1.28	0.01	1.32	22.30%	0.12	0.00	0.00	0.00	

Unit No. 03 San Joaquin River RB		Overall Unit Rating	Total Unit Miles						
NA0010		A	2.10						
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>									
Animal Control	0.02		0.02	0.96%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.03				
<i>Unit Totals:</i>	0.02	0.00	0.02	0.96%	0.03	0.00	0.00	0.00	

Unit No. 04 San Joaquin River LB		Overall Unit Rating	Total Unit Miles						
NA0010		A	1.41						
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					1.09				
<i>Supplemental</i>									
DWR UCIP Field Study					0.06				
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	1.15	0.00	0.00	0.00	

Unit No. 05 East Side Bypass RB		Overall Unit Rating	Total Unit Miles						
NA0010		A	34.85						
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	0.01		0.01	0.03%	0.02				
Animal Control	0.33		0.33	0.95%					
Slope Stability	0.01		0.01	0.03%					
Erosion / Bank Caving	0.12		0.12	0.34%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.64	0.01			
<i>Unit Totals:</i>	0.47	0.00	0.47	1.35%	0.66	0.01	0.00	0.00	

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 06 East Side Bypass LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	36.47						
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	20.01		20.01	54.87%				
Trim / Thin Trees	0.01		0.01	0.03%				
Encroachments					0.01	0.34		
Animal Control	0.62	0.02	0.70	1.92%				
Slope Stability	0.68		0.68	1.87%				
Erosion / Bank Caving		0.34	1.36	3.73%				
Crown Surface / Depressions / Rutting	1.26		1.26	3.46%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.48	0.01		
<i>Unit Totals:</i>	22.58	0.36	24.02	65.86%	0.49	0.35	0.00	0.00

Unit No. 07 Bear Creek Bypass RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	3.62						
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>								
Animal Control	0.05		0.05	1.38%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.04			
<i>Unit Totals:</i>	0.05	0.00	0.05	1.38%	0.04	0.00	0.00	0.00

Unit No. 08 Bear Creek Bypass LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	3.63						
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>								
Animal Control	0.24		0.24	6.61%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.28%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07			
<i>Unit Totals:</i>	0.25	0.00	0.25	6.89%	0.07	0.00	0.00	0.00

Unit No. 09 Owens Creek Bypass 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.					
NA0010	M *	0.87						
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>								
Repair Gates		0.01	0.04	4.57%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.00	0.01	0.04	4.57% *	0.02	0.00	0.00	0.00

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 10 Owens Creek Bypass LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	0.80						
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>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.01	0.00	0.00	0.00

Unit No. 11 Mariposa Bypass RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	3.31						
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>								
Animal Control	0.01		0.01	0.30%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.30%	0.07	0.00	0.00	0.00

Unit No. 12 Mariposa Bypass LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	3.33						
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>								
Animal Control	0.01		0.01	0.30%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.08			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.30%	0.08	0.00	0.00	0.00

Unit No. 13 Ash Slough RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	1.27						
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					0.02	0.01		
Animal Control	0.01		0.01	0.79%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.79%	0.04	0.01	0.00	0.00

Unit No. 14 Ash Slough LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	1.28						
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>								
Animal Control	0.01		0.01	0.78%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.78%	0.01	0.00	0.00	0.00

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 15 Berenda Slough RB	Overall Unit Rating	Total Unit Miles						
NA0010	U	2.03						
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>								
Animal Control	0.01		0.01	0.49%				
Crown Surface / Depressions / Rutting	1.98		1.98	97.49%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	1.99	0.00	1.99	97.98%	0.02	0.00	0.00	0.00

Unit No. 16 Berenda Slough LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	1.96						
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>								
Animal Control	0.02	0.02	0.10	5.10%				
Crown Surface / Depressions / Rutting	1.95		1.95	99.37%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	1.97	0.02	2.05	104.47%	0.01	0.00	0.00	0.00

Unit No. 17 Chowchilla Canal Bypass RB	Overall Unit Rating	Total Unit Miles						
NA0010	U	16.09						
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		5.14	20.56	127.77%				
Animal Control	0.39		0.39	2.42%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06			
<i>Unit Totals:</i>	0.39	5.14	20.95	130.20%	0.06	0.00	0.00	0.00

Unit No. 18 Chowchilla Canal Bypass LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	15.35						
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		13.24	52.96	344.98%				
Animal Control	0.03	0.01	0.07	0.46%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.04			
<i>Unit Totals:</i>	0.03	13.25	53.03	345.44%	0.04	0.00	0.00	0.00

**Flood Control Project Maintenance
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Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 22A East Side Canal LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	5.51						
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		0.01	0.04	0.73%				
Encroachments	0.01		0.01	0.18%	0.01			
Animal Control	0.26		0.26	4.72%				
Slope Stability		0.01	0.04	0.73%				
Erosion / Bank Caving	0.01	0.11	0.45	8.17%				
Crown Surface / Depressions / Rutting	1.27		1.27	23.07%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.04			
<i>Unit Totals:</i>	1.55	0.13	2.07	37.60%	0.05	0.00	0.00	0.00

Unit No. 23 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
NA0010	U	10.24						
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	0.03	1.44	5.79	56.53%				
Trim / Thin Trees	0.01	0.01	0.05	0.49%				
Encroachments						0.02		
Animal Control		0.02	0.08	0.78%				
Slope Stability	0.30		0.30	2.93%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.08	0.02		
<i>Unit Totals:</i>	0.34	1.47	6.22	60.73%	0.08	0.04	0.00	0.00

Unit No. 24 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	8.36						
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		1.63	6.52	78.02%				
Encroachments					0.02	0.01		
Animal Control	0.02		0.02	0.24%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07			
<i>Unit Totals:</i>	0.02	1.63	6.54	78.26%	0.09	0.01	0.00	0.00

Unit No. 25 Salt Slough RB	Overall Unit Rating	Total Unit Miles						
NA0010	U	2.49						
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		7.45	29.80	1198.92%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06			
<i>Unit Totals:</i>	0.00	7.45	29.80	1198.92%	0.06	0.00	0.00	0.00

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

Lower San Joaquin Levee District

	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

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	22.52
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/16/2016 - 5/19/2016		10/17/2016 - 10/20/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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
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Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0010_01_s _ 2013_23				
Comment Code					
Inspector Comment					
The LMA maintains a copy of the O&M manuals on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0010_01_s _ 2013_24				
Comment Code					
Inspector Comment					
The LMA has adequate supplies and equipment for flood response.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0010_01_s _ 2013_25				
Comment Code					
Inspector Comment					
LMA preparedness and training is adequate for flood response.					

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
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Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	1212
LM End	0.00	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.348637 °	37.348637 °
				-120.958834 °	-120.958834 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39091
DS_ID:19650
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope and landward toe. Recommend removing vegetation along pipe alignment and landward toe to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.02).
FS Date: 4/8/2014 7:34:00 AM

LM Start	0.00	Rating **	M	Issue No.	1212 (cont)
LM End	0.00	Issue Type +	En	Location *	N/A

Photo 1 of 2 : UCIP_FA_2016_39091_60601.jpg



Flapgate on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39091_60600.jpg



Flapgate on WS 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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Lower San Joaquin Levee District

Looking downstream at typical view of landward and waterward slopes.

Looking downstream at tree branch on waterward slope.

Looking southwest at dead tree on landward slope and toe.

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Lower San Joaquin Levee District

Looking at typical rodent holes on landward slope.

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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.34	Rating **	M	Issue No.	1213
LM End	0.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.344705 °	37.344705 °
				-120.962176 °	-120.962176 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39092 DS_ID:19651 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe has significant sediment buildup and shows some signs of corrosion at landward toe. Recommend cleaning sediment from inside pipe and check wall integrity. FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through the levee, 18.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.35). FS Date: 4/8/2014					

LM Start	0.34	Rating **	M	Issue No.	1213 (cont)
LM End	0.34	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39092_60611.jpg



Flapgate and headwall visible off WS toe.

Photo 2 of 2 : UCIP_FA_2016_39092_60613.jpg



Flapgate and headwall visible off WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1214
LM End	0.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.341507 °	37.341507 °
				-120.961283 °	-120.961283 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39095 DS_ID:19583 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend removing vegetation pile from waterward toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.62). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39095_60622.jpg



Flapgate and headwall visible on WS toe.

LM Start	0.60	Rating **	M	Issue No.	1214 (cont)
LM End	0.60	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39095_60623.jpg



Flapgate and headwall visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.93	Rating **	M	Issue No.	1215	
LM End	0.93	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.339598 °		37.339598 °
				-120.957202 °		-120.957202 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39096						
DS_ID:19585						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Moderate erosion around headwall on landward toe.						
May or may not be an issue. Need to contact owner to determine status						
of crossing and to address erosion issue on landward side.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7-feet						
below the crown. Flap gate on the waterward end. Brass cap No. 108						
BM on headwall on the landward side. (USACE-1967). This entry						
matches the Drainage or Irrigation Structure referenced in O&M manual						
(HLM 0.95).						
FS Date: 4/8/2014						

Photo 1 of 2 : UCIP_FA_2016_39096_60632.jpg



Flapgate, pipe, and headwall on WS toe.

LM Start	0.93	Rating **	M	Issue No.	1215 (cont)
LM End	0.93	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39096_60631.jpg



Concrete headwall and pipe visible at 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	1.46	Rating **	M	Issue No.	1216
LM End	1.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.336866 °	37.336866 °
				-120.948520 °	-120.948520 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39099					
DS_ID:19588					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some sediment buildup inside pipe at LS toe.					
Recommend contacting owner to clear sediment buildup and check wall integrity through pipe section.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.48).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39099_60652.jpg



Pipe, flapgate, and concrete headwall visible on WS toe.

LM Start	1.46	Rating **	M	Issue No.	1216 (cont)
LM End	1.46	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39099_60653.jpg



Pipe, flapgate, and concrete headwall visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	1.67	Rating **	M	Issue No.	1185
LM End	1.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.336459 °	37.336459 °
				-120.944803 °	-120.944803 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33563 DS_ID:19589 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe at LS toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 13.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.69). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_33563_60661.jpg



Pipe, headwall, and flapgate visible on WS toe.

LM Start	1.67	Rating **	M	Issue No.	1185 (cont)
LM End	1.67	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_33563_60663.jpg



Pipe, headwall, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	1.95	Rating **	M	Issue No.	1217
LM End	1.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.334377 °	37.334377 °
				-120.940397 °	-120.940397 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39100 DS_ID:19591 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine crossing status. Inlet drop box silted in and needs to be cleaned out. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). Wooden barrier around drop inlet on LS toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.98). FS Date: 4/8/2014					

LM Start	1.95	Rating **	M	Issue No.	1217 (cont)
LM End	1.95	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39100_60670.jpg



Concrete headwall and flapgate on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39100_60672.jpg



Pipe, flapgate, and headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	2.06	Rating **	M	Issue No.	1218
LM End	2.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.333653 °	37.333653 °
				-120.938770 °	-120.938770 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39123 DS_ID:19570 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to find inlet on landward toe. Recommend clearing vegetation on landward side to properly inspect inlet. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.8 feet below the crown. Flap gate on waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.08). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39123_60675.jpg



Pipe and flapgate visible on WS toe.

LM Start	2.06	Rating **	M	Issue No.	1218 (cont)
LM End	2.06	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39123_60676.jpg



Pipe and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	1219
LM End	2.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.327362 °	37.327362 °
				-120.931591 °	-120.931591 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39127					
DS_ID:19573					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sedimentation in pipe at landward toe.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee,					
7.3 feet below the crown. Flap gate on the waterward end. Brass cap					
No. 100 BM on headwall on the landward side. (USACE-1967). This					
entry matches the Drainage or Irrigation Structure referenced in O&M					
manual (HLM 2.70).					
FS Date: 4/8/2014					

LM Start	2.67	Rating **	M	Issue No.	1219 (cont)
LM End	2.67	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39127_60688.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39127_60689.jpg



Pipe, flapgate, and headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.13	Rating **	M	Issue No.	1220
LM End	3.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.321444 °	37.321444 °
				-120.928764 °	-120.928764 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39128					
DS_ID:19574					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some minor erosion around headwall on LS toe.					
FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 8-feet below the crown. Flap gate on the waterward end. Brass cap No. 100					
BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.16).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39128_60702.jpg



Pipe, Flapgate, and headwall on WS toe.

LM Start	3.13	Rating **	M	Issue No.	1220 (cont)
LM End	3.13	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39128_60700.jpg



Pipe, Flapgate, and headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.16	Rating **	M	Issue No.	10
LM End	3.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.321053 °	37.321053 °
				-120.928785 °	-120.928785 °
DWR ID	DWR_NA0010_01_s_2012_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted within this section. Rodent hole noted on waterward shoulder next to fence pole.					

LM Start	3.16	Rating **	M	Issue No.	10 (cont)
LM End	3.16	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_118_10_20161007_00007.jpg



Looking at typical view of rodent holes on landward slope.

Photo 2 of 2 : FA_2016_NA0010_118_10_20161007_00008.jpg



Looking at rodent hole next to fence pole on landward shoulder.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1254
LM End	3.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.317116 °	37.317116 °
				-120.926451 °	-120.926451 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50054 DS_ID:19575 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/19/2016 Same as previous inspection. Erosion present on LS slope. (DWR UCIP - omagana)4/08/2014 Pipe rusted through at Springline on LS toe. Flapgate blocked by sediment on WS toe. Heavy sediment on both ends of pipe. Need to contact owner to address issues. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Flap gate located on the waterside (WS) end. Brass cap No. 100 BM on headwall located on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 3.50), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969]. FS Date: 7/19/2016					

Photo 1 of 2 : UCIP_FA_2016_50054_60707.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	3.47	Rating **	U	Issue No.	1254 (cont)
LM End	3.47	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_50054_60706.jpg



Pipe and headwall on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1179
LM End	3.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.317057 °	37.317057 °
				-120.926443 °	-120.926443 °
DWR ID	DWR_NA0010_01_s_2015_1179				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions greater than three inches on landward slope.					

Photo 1 of 3 : FA_2016_NA0010_118_1179_20161007_00022.jpg



Looking south at erosion on landward slope and toe.

LM Start	3.47	Rating **	U	Issue No.	1179 (cont)
LM End	3.47	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2016_NA0010_118_1179_20161007_00023.jpg



Looking southwest at erosion on landward slope and toe.

LM Start	3.47	Rating **	U	Issue No.	1179 (cont)
LM End	3.47	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_118_1179_20161007_00024.jpg



Looking west at erosion on landward slope and toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.50	Rating **	M	Issue No.	17
LM End	3.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.316652 °	37.311006 °
				-120.926261 °	-120.926402 °
DWR ID	DWR_NA0010_01_f _ 2012_17				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	3.70	Rating **	M	Issue No.	2
LM End	3.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.313892 °	37.313598 °
				-120.926507 °	-120.926607 °
DWR ID	DWR_NA0010_01_s _ 2012_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.92	Rating **	M	Issue No.	1221
LM End	3.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.311178 °	37.311178 °
				-120.927007 °	-120.927007 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39132
DS_ID:19576
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Slide gate missing from WS. No closure device, but degrading of levee at Highway 140 is lower than pipe, so this does not appear to be a critical issue. Also 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.
FIELD_STRUCT_DESC: 30-inch CM irrigation pipe through the levee, 3.5 feet below the crown. Slidegate on the waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.95).
FS Date: 4/8/2014

LM Start	3.92	Rating **	M	Issue No.	1221 (cont)
LM End	3.92	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39132_60723.jpg



Slide gate missing on WS toe with heavy vegetation camouflaging pipe

Photo 2 of 2 : UCIP_FA_2016_39132_60720.jpg



Slide gate missing on WS toe with heavy vegetation camouflaging pipe

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.93	Rating **	M	Issue No.	1222
LM End	3.93	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.311157 °	37.311157 °
				-120.926919 °	-120.926919 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39133
DS_ID:19606
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status of crossing inlet and outlet not found.
FIELD_STRUCT_DESC: 12-inch concrete irrigation pipe through the levee, 3.5 feet below the crown. 12-inch Concrete standpipes off both sides of levee.
FS Date: 4/8/2014

LM Start	3.93	Rating **	M	Issue No.	1222 (cont)
LM End	3.93	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39133_60725.jpg



12-inch concrete standpipe off WS toe.

Photo 2 of 2 : UCIP_FA_2016_39133_60724.jpg



12-inch concrete standpipe 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.98	Rating **	U	Issue No.	5
LM End	4.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.310837 °	37.310003 °
				-120.926182 °	-120.925313 °
DWR ID	DWR_NA0010_01_s_2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					
Irrigation ditch at landside toe					

Photo 1 of 2 : FA_2016_NA0010_118_5_20161007_00003.jpg



Looking north at irrigation ditch at landside toe.

LM Start	3.98	Rating **	U	Issue No.	5 (cont)
LM End	4.05	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_118_5_20161007_00004.jpg



Looking south at irrigation ditch at landside 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1186
LM End	4.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.309080 °	37.309080 °
				-120.924442 °	-120.924442 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39134
DS_ID:19607
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe appears sleeved with a 12-inch steel pipe with a slide gate at the LS toe. No identified authorization for changes to this crossing. Need to contact owner to obtain additional information about the modifications to crossing.
FIELD_STRUCT_DESC: 48-inch CM stormdrain pipe through the levee, 14.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.16).
FS Date: 4/8/2014

LM Start	4.13	Rating **	M	Issue No.	1186 (cont)
LM End	4.13	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39134_60730.jpg



Concrete headwall and 48-inch flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39134_60731.jpg



Assumed pipe exists under pump at 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1187
LM End	4.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.309063 °	37.309063 °
				-120.924449 °	-120.924449 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39138
DS_ID:24866
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to get details of crossing.
FIELD_STRUCT_DESC: 12-inch steel stormdrain pipe through the levee 2.5-feet below the crown. 12-inch steel pipe, vent, and pump on stand visible on LS slope. 10-inch PVC pipe visible on WS slope.
FS Date: 4/8/2014

LM Start	4.13	Rating **	M	Issue No.	1187 (cont)
LM End	4.13	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39138_71320.jpg



View of pipe visible on landward side.

Photo 2 of 2 : UCIP_FA_2016_39138_71319.jpg



Pipe through existing 48 inch pipe.

* 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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Lower San Joaquin Levee District

No Photos

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	4.25	Rating **	M	Issue No.	1188
LM End	4.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.307930 °	37.307930 °
				-120.923057 °	-120.923057 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39140
DS_ID:19608
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation and fence limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward side. Recommend obtaining access to landward toe and removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 11.9 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.27).
FS Date: 4/8/2014

LM Start	4.25	Rating **	M	Issue No.	1188 (cont)
LM End	4.25	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39140_60733.jpg



Pipe, flapgate, and headwall visible at WS toe.

Photo 2 of 2 : UCIP_FA_2016_39140_60732.jpg



Pipe, flapgate, and headwall visible at WS toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	1189
LM End	4.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.302408 °	37.302408 °
				-120.920931 °	-120.920931 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39141
DS_ID:19609
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.72).
FS Date: 4/8/2014

LM Start	4.69	Rating **	M	Issue No.	1189 (cont)
LM End	4.69	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39141_60737.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39141_60738.jpg



Pipe, flapgate, and headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	4.69	Rating **	U	Issue No.	9
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.302398 °	37.302398 °
				-120.920920 °	-120.920920 °
DWR ID	DWR_NA0010_01_s_2013_9				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					
Levee landward toe damaged by livestock.					

Photo 1 of 1 : FA_2016_NA0010_118_9_20161007_00006.jpg



Looking at landward slope damaged by livestock.

LM Start	5.02	Rating **	M	Issue No.	1190
LM End	5.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.298917 °	37.298917 °
				-120.917262 °	-120.917262 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39143 DS_ID:19610 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional -- sediment buildup against flapgate and inlet buried at landward side. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.05). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39143_60740.jpg



Flapgate and headwall visible at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	5.02	Rating **	M	Issue No.	1190 (cont)	
LM End	5.02	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.298917 °		37.298917 °
				-120.917262 °		-120.917262 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39143 DS_ID:19610 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional -- sediment buildup against flapgate and inlet buried at landward side. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.05). FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_FA_2016_39143_60739.jpg



Flapgate and headwall visible at WS toe.

LM Start	5.87	Rating **	U	Issue No.	93
LM End	6.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.303584 °	37.302118 °
				-120.904614 °	-120.887957 °
DWR ID	DWR_NA0010_01_f_2015_93				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_118_93_20161024_00233.jpg



Looking at dense veg on waterward 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	5.87	Rating **	U	Issue No.	93 (cont)	
LM End	6.86	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.303584 °		37.302118 °
				-120.904614 °		-120.887957 °
DWR ID	DWR_NA0010_01_f_2015_93					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

Photo 2 of 2 : FA_2016_NA0010_118_93_20161007_00018.jpg



Looking at dense veg on waterward slope. (Spring 2016)

LM Start	5.87	Rating **	U	Issue No.	92
LM End	6.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.303555 °	37.302118 °
				-120.904541 °	-120.887957 °
DWR ID	DWR_NA0010_01_f_2015_92				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_118_92_20161024_00234.jpg



Looking south at dense veg on landward slope. (Fall 2016)

LM Start	5.87	Rating **	U	Issue No.	92 (cont)
LM End	6.86	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_118_92_20161007_00017.jpg



Looking south at dense veg on landward slope. (Spring 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	5.92	Rating **	M	Issue No.	1197
LM End	5.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.303612 °	37.303612 °
				-120.903704 °	-120.903704 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39151 DS_ID:19611 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Landward side filled in with soil. Need to contact owner. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.95). FS Date: 4/8/2014					

LM Start	5.92	Rating **	M	Issue No.	1197 (cont)
LM End	5.92	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39151_60742.jpg



Pipe, concrete headwall, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39151_60741.jpg



Top of concrete headwall just visible on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	6.10	Rating **	M	Issue No.	1198
LM End	6.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.304232 °	37.304232 °
				-120.900706 °	-120.900706 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39152 DS_ID:19612 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Pipe completely blocked by soil on LS toe due to animal activity. Slide gate blocked open. FIELD_STRUCT_DESC: 48-inch CM pipe through the levee, 13.1 feet below the crown. Walkway to slidegate on LS toe at concrete headwall. Flap gate at concrete headwall on the WS toe. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). Pipe crosses levee at an angle to levee alignment. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.13). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39152_60745.jpg



Slidegate at LS toe.

LM Start	6.10	Rating **	M	Issue No.	1198 (cont)
LM End	6.10	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39152_60744.jpg



Pipe, concrete headwall, slidegate, and metal walkway on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	6.39	Rating **	M	Issue No.	1199
LM End	6.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.304459 °	37.304459 °
				-120.895863 °	-120.895863 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39154 DS_ID:19613 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end next to 48-inch concrete riser with walkway over its top. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.40). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39154_60762.jpg



Pipe, flapgate, and concrete headwall on WS toe.

LM Start	6.39	Rating **	M	Issue No.	1199 (cont)
LM End	6.39	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39154_60760.jpg



Pipe, flapgate, and concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	6.61	Rating **	M	Issue No.	1251
LM End	6.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.303815 °	37.303815 °
				-120.891955 °	-120.891955 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49962
DS_ID:19614
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/19/2016 Same as previous inspection. Outlet and inlet are under water. (DWR UCIP - omagana)4/08/2014 Flapgate blocked by sedimentation at WS toe. 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. Also recommend clearing vegetation from both waterward and landward toe. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Wooden fence around 4-foot by 4-foot drop inlet located on the landside (LS) toe. Flap gate located on the waterside (WS) end. Brass cap No. 90 BM on headwall located on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 6.64), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969]
FS Date: 7/19/2016

LM Start	6.61	Rating **	M	Issue No.	1251 (cont)
LM End	6.61	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_49962_60764.jpg



Pipe and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_49962_60766.jpg



Pipe and flapgate visible at WS toe. Flapgate blocked by sedimentation on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	6.86	Rating **	M	Issue No.	1255
LM End	6.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.302098 °	37.302098 °
				-120.887943 °	-120.887943 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50077
DS_ID:19615
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/19/2016 Potential LS slope damage--difficult to determine due to dense vegetation. Limited access on WS toe due to wire fence. (DWR UCIP - omagana)4/08/2014 Slide gate blocked by debris at LS toe. Flapgate won't close because of debris. 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 - omagana)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 10.3 feet below the crown. Slidegate located on landside (LS) toe and a flap gate located on the waterside (WS) end. Brass cap No. 90 BM is located on headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 6.90), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969]
FS Date: 7/19/2016

LM Start	6.86	Rating **	M	Issue No.	1255 (cont)
LM End	6.86	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50077_60768.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_FA_2016_50077_60767.jpg



Pipe, concrete headwall, and slidegate on LS toe. Debris blocking closure of slidegate.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	7.18	Rating **	M	Issue No.	1249
LM End	7.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.300055 °	37.300055 °
				-120.882939 °	-120.882939 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42851					
DS_ID:19616					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe failing and corroded through at LS toe. Need to contact owner to determine status of crossing. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 5.1 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.21).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_42851_60770.jpg



Pipe, concrete headwall, and flapgate on WS toe.

LM Start	7.18	Rating **	M	Issue No.	1249 (cont)
LM End	7.18	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_42851_60772.jpg



Flapgate and concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	7.29	Rating **	M	Issue No.	1201
LM End	7.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.299931 °	37.299931 °
				-120.880947 °	-120.880947 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39160 DS_ID:19617 EP_NO: 4425 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend contacting owner to determine status of crossing. No pump was found on waterward side (riverbank). If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 13.6 feet below the crown. Pipe encased in 6-inches of concrete through levee. 5'X7' Concrete distribution box on the waterward side. 20-inch concrete standpipe at LS toe. Pump on the riverbank, accessible by walkway platform (Pump not found). Concrete cutoff walls around pipe in line with levee shoulders. Pipe extends to 36-inch concrete pipes on both sides of levee. (Permit No. 4425-1965) FS Date: 4/8/2014					

LM Start	7.29	Rating **	M	Issue No.	1201 (cont)
LM End	7.29	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39160_60776.jpg



Pipe visible under water in concrete box riser on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39160_60775.jpg



5'X7' concrete box riser on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	7.42	Rating **	M	Issue No.	1202
LM End	7.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.299817 °	37.299817 °
				-120.878519 °	-120.878519 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39161 DS_ID:19618 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.46). FS Date: 4/8/2014					

LM Start	7.42	Rating **	M	Issue No.	1202 (cont)
LM End	7.42	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39161_60778.jpg



Pipe and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39161_60780.jpg



Pipe and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	7.65	Rating **	M	Issue No.	1191
LM End	7.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.299211 °	37.299211 °
				-120.874415 °	-120.874415 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39243 DS_ID:19619 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.69). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39243_60842.jpg



Flapgate and headwall at WS toe. Heavy vegetation on slopes.

LM Start	7.65	Rating **	M	Issue No.	1191 (cont)
LM End	7.65	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39243_60840.jpg



Flapgate and headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	8.03	Rating **	M	Issue No.	1192
LM End	8.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.298711 °	37.298711 °
				-120.867756 °	-120.867756 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39244
DS_ID:19620
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.07).
FS Date: 4/9/2014

LM Start	8.03	Rating **	M	Issue No.	1192 (cont)
LM End	8.03	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39244_60844.jpg



Pipe, Headwall, and flapgate at WS toe.

Photo 2 of 2 : UCIP_FA_2016_39244_60847.jpg



Pipe, Headwall, and flapgate at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	8.38	Rating **	M	Issue No.	1193
LM End	8.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.296637 °	37.296637 °
				-120.861994 °	-120.861994 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39245
DS_ID:19621
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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. Sediment buildup at landward toe.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.41).
FS Date: 4/9/2014

LM Start	8.38	Rating **	M	Issue No.	1193 (cont)
LM End	8.38	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39245_60850.jpg



Concrete headwall, pipe, and flapgate at WS toe.

Photo 2 of 2 : UCIP_FA_2016_39245_60848.jpg



Concrete headwall, pipe, and flapgate at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	8.89	Rating **	M	Issue No.	1194
LM End	8.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.297296 °	37.297296 °
				-120.852871 °	-120.852871 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39247 DS_ID:19623 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.1 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.93). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_FA_2016_39247_60859.jpg



Pipe, flapgate, and headwall on WS toe.

LM Start	8.89	Rating **	M	Issue No.	1194 (cont)
LM End	8.89	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39247_60860.jpg



Pipe, flapgate, and headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	8.97	Rating **	U	Issue No.	1252
LM End	8.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.297423 °	37.297423 °
				-120.851575 °	-120.851575 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49964
DS_ID:19624
EP_NO: 12156
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/19/2016 same as previous inspection--pipe rusted through. Sediment visible inside LS pipe; walkway wood panels have dry rot and appears to be unsafe to use. (DWR UCIP - omagana)4/09/2014 Slide gate rusted through and open on WS toe. Inlet appears to be obscured or covered in soil at LS toe. Also dense vegetation on waterward and landward sides. Need to contact owner to contact CVFPB to address issue. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 26-inch steel pipe sleeved inside 30-inch concrete drainage through the levee, 7.3 feet below the crown. Annular gap grouted between 26-inch steel pipe and 30-inch concrete pipe. Concrete wingwalls located on each side of pipe. Slide gate on discharge end with elevated walkway access located on waterside (WS). Two concrete cutoff walls are located on the center of levee. Concrete headwall (6-inch thick) located on discharge end of pipe-landside (LS). (Permit No. 12156, 1978 - Merquin County Water District; Permit No. 12156-A, 1978 - Merquin County Water District) [Additional Reference(s): DWR Levee Log, 2002]
FS Date: 7/19/2016

LM Start	8.97	Rating **	U	Issue No.	1252 (cont)
LM End	8.97	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_49964_60864.jpg



Metal walkway to slidegate operator on WS toe.

Photo 2 of 2 : UCIP_FA_2016_49964_60862.jpg



Slidegate and headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	8.97	Rating **	M	Issue No.	1195
LM End	8.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.297425 °	37.297425 °
				-120.851522 °	-120.851522 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39249 DS_ID:19625 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. Some sediment buildup in pipe. FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.00). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_FA_2016_39249_60870.jpg



Pipe and flapgate visible on WS toe.

LM Start	8.97	Rating **	M	Issue No.	1195 (cont)
LM End	8.97	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39249_60869.jpg



Pipe and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	8.99	Rating **	M	Issue No.	1196
LM End	8.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.297488 °	37.297488 °
				-120.851157 °	-120.851157 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39250 DS_ID:19626 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.03). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_FA_2016_39250_60872.jpg



Heavy vegetation on LS toe.

LM Start	8.99	Rating **	M	Issue No.	1196 (cont)
LM End	8.99	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39250_60871.jpg



Pipe, concrete headwall, and flapgate at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	8.99	Rating **	U	Issue No.	12
LM End	9.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.297508 °	37.293801 °
				-120.851103 °	-120.839759 °
DWR ID	DWR_NA0010_01_f_2015_12				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

LM Start	8.99	Rating **	U	Issue No.	12 (cont)
LM End	9.72	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_118_12_20161024_00235.jpg



Looking east at dense veg on landward slope. (Fall 2016)

Photo 2 of 2 : FA_2016_NA0010_118_12_20161007_00009.jpg



Looking southeast at dense veg on landward slope. (Spring 2016)

LM Start	9.03	Rating **	U	Issue No.	94
LM End	9.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.297380 °	37.293801 °
				-120.850388 °	-120.839759 °
DWR ID	DWR_NA0010_01_f_2015_94				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_118_94_20161024_00236.jpg



Looking south at dense veg on waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	9.03	Rating **	U	Issue No.	94 (cont)	
LM End	9.72	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.297380 °		37.293801 °
				-120.850388 °		-120.839759 °
DWR ID	DWR_NA0010_01_f_2015_94					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

Photo 2 of 2 : FA_2016_NA0010_118_94_20161007_00019.jpg



Looking southwest at dense veg on waterward slope. (Spring 2016)

LM Start	9.16	Rating **	M	Issue No.	117
LM End	9.78	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.296145 °	37.293077 °
				-120.848588 °	-120.839170 °
DWR ID	DWR_NA0010_01_s_2012_117				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Control vegetation on levee crown.					

Photo 1 of 1 : FA_2016_NA0010_118_117_20161007_00021.jpg



Looking south at veg on levee crown.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	9.34	Rating **	M	Issue No.	1200
LM End	9.34	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.295413 °	37.295413 °
				-120.845664 °	-120.845664 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39251 DS_ID:19627 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.6 feet below the crown. Concrete drop-inlet installed at LS toe. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.37). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_FA_2016_39251_60875.jpg



Pipe and flapgate on WS toe.

LM Start	9.34	Rating **	M	Issue No.	1200 (cont)
LM End	9.34	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_39251_60876.jpg



Headwall, Pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	9.57	Rating **	M	Issue No.	14
LM End	9.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.295517 °	37.295517 °
				-120.841452 °	-120.841452 °
DWR ID	DWR_NA0010_01_s_ 2015_14				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression greater than 3" deep by 18" wide by 18" long on levee crown					

LM Start	9.57	Rating **	M	Issue No.	14 (cont)
LM End	9.57	Issue Type +	Ma	Location *	CR

Photo 1 of 3 : FA_2016_NA0010_118_14_20161007_00010.jpg



Looking at depression on levee crown. (Fall 2015)

Photo 2 of 3 : FA_2016_NA0010_118_14_20161007_00011.jpg



Looking west at depression greater than three inches on levee crown.

LM Start	9.57	Rating **	M	Issue No.	14 (cont)
LM End	9.57	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : FA_2016_NA0010_118_14_20161007_00012.jpg



Looking west at depression on levee crown.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	10.20	Rating **	M	Issue No.	1203
LM End	10.20	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.287511 °	37.287511 °
				-120.840251 °	-120.840251 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39253					
DS_ID:19629					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation blocks waterward and landward toes Recommend removing vegetation from both toes. Also sediment buildup in pipe visible from landward side.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 69 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.23).					
FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_FA_2016_39253_60884.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	10.20	Rating **	M	Issue No.	1203 (cont)
LM End	10.20	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_39253_60886.jpg



Pipe, headwall, and flapgate at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	10.73	Rating **	U	Issue No.	91
LM End	10.73	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.283543 °	37.283543 °
				-120.832665 °	-120.832665 °
DWR ID	DWR_NA0010_01_f_2016_91				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning piles in the middle of channel 100 ft from waterward slope should be removed or burned.					

Photo 1 of 1 : FA_2016_NA0010_118_91_20161024_00237.jpg



Looking west at pruning piles in channel 100ft from waterward slope.

LM Start	10.98	Rating **	M	Issue No.	1204
LM End	10.98	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.282627 °	37.282627 °
				-120.828233 °	-120.828233 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39255 DS_ID:19632 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation blocks landward headwall. Recommend removing excess vegetation on landward toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 6.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 66 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.00). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_FA_2016_39255_60897.jpg



Pipe, headwall, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	10.98	Rating **	M	Issue No.	1204 (cont)	
LM End	10.98	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.282627 °		37.282627 °
				-120.828233 °		-120.828233 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39255 DS_ID:19632 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation blocks landward headwall. Recommend removing excess vegetation on landward toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 6.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 66 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.00). FS Date: 4/9/2014						

Photo 2 of 2 : UCIP_FA_2016_39255_60899.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	11.49	Rating **	M	Issue No.	1245
LM End	11.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.273787 °	37.273787 °
				-120.825519 °	-120.825519 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36103 DS_ID:19634 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner--landward side has been buried. It appears that soil was removed from levee toe, immediately upstream, and used to pile soil at landward side at crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 62 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.48). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36103_65362.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	1245 (cont)	
LM End	11.49	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.273787 °	37.273787 °	
				-120.825519 °	-120.825519 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36103						
DS_ID:19634						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner--landward side has been buried. It appears that soil was removed from levee toe, immediately upstream, and used to pile soil at landward side at crossing.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 62 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.48).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36103_65364.jpg



View of concrete headwall and flap gate visible on waterward side.

LM Start	11.78	Rating **	M	Issue No.	1246
LM End	11.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.269701 °	37.269701 °
				-120.826450 °	-120.826450 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36105					
DS_ID:19635					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Crossing is non-functional --landward side is buried.					
Debris found on landward side (channel). Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 17.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 61 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.76).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36105_65372.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	11.78	Rating **	M	Issue No.	1246 (cont)	
LM End	11.78	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.269701 °	37.269701 °	
				-120.826450 °	-120.826450 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36105						
DS_ID:19635						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Crossing is non-functional --landward side is buried.						
Debris found on landward side (channel). Dense vegetation found on						
waterward slope. Recommend contacting owner to determine status of						
crossing. If crossing is no longer used need to coordinate with CVFPB						
for proper abandonment.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 17.0 feet						
below the crown. Flap gate on the waterward end. Brass cap No. 61 BM						
on headwall on the landward side. (USACE-1967). This entry matches the						
Drainage or Irrigation Structure referenced in O&M manual (HLM						
11.76).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36105_65371.jpg



Landward side of crossing buried--damage pipe section visible on landward side.

LM Start	12.12	Rating **	M	Issue No.	1247		
LM End	12.12	Issue Type +	En	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
				Start		End	
Item	DWR UCIP Field Study			37.265336	°	37.265336	°
				-120.826591		°	-120.826591
DWR ID							
Comment Code							
Inspector Comment							
FS_ID:36106 DS_ID:19636 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional --landward side is buried. Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.11). FS Date: 4/25/2014							

Photo 1 of 2 : UCIP_FA_2016_36106_65378.jpg



View of waterward side--flap gate visible on waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	12.12	Rating **	M	Issue No.	1247 (cont)	
LM End	12.12	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.265336 °	37.265336 °	
				-120.826591 °	-120.826591 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36106 DS_ID:19636 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional --landward side is buried. Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.11). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36106_65379.jpg



Flap gate and concrete headwall visible on waterward side.

LM Start	12.95	Rating **	M	Issue No.	1223
LM End	12.95	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.256873 °	37.256873 °
				-120.821277 °	-120.821277 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36146 DS_ID:19637 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete headwall on landward side blocked by debris. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.94). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36146_65412.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	12.95	Rating **	M	Issue No.	1223 (cont)
LM End	12.95	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.256873 °	37.256873 °
				-120.821277 °	-120.821277 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36146 DS_ID:19637 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete headwall on landward side blocked by debris. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.94). FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_FA_2016_36146_65411.jpg



Flap gate and concrete headwall visible on waterward side.

LM Start	13.49	Rating **	M	Issue No.	1248
LM End	13.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.251590 °	37.251590 °
				-120.814354 °	-120.814354 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36109 DS_ID:19638 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Concrete headwall blocked by debris located on landward toe. Recommend clearing debris from landward slope and toe. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.48). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36109_65389.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	13.49	Rating **	M	Issue No.	1248 (cont)	
LM End	13.49	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.251590 °		37.251590 °
				-120.814354 °		-120.814354 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36109 DS_ID:19638 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Concrete headwall blocked by debris located on landward toe. Recommend clearing debris from landward slope and toe. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.48). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36109_65387.jpg



View of flap gate and pipe through levee 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	1205
LM End	13.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.250138 °	37.250138 °
				-120.814720 °	-120.814720 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39256
DS_ID:19639
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: No access to waterward toe due to fence. Unable to find the concrete headwall and flap gate on waterward side past fence. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also need access past fence on waterward side.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.58).
FS Date: 4/25/2014

LM Start	13.59	Rating **	M	Issue No.	1205 (cont)
LM End	13.59	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39256_65418.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_39256_65417.jpg



Dense vegetation 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**

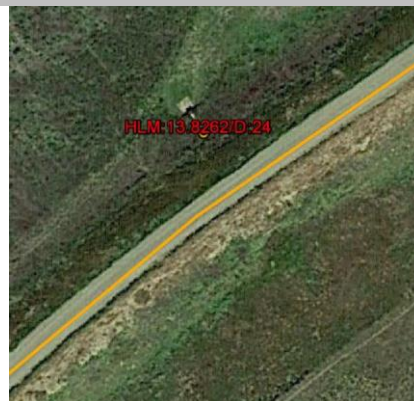
Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	13.82	Rating **	M	Issue No.	1243
LM End	13.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.247568 °	37.247568 °
				-120.817074 °	-120.817074 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36544					
DS_ID:19640					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: No photos available--missed crossing. Aerial photograph indicates crossing is present. Need to confirm if crossing is still present on waterward side.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.81).					
FS Date: 4/25/2014					

Photo 1 of 1 : UCIP_FA_2016_36544_66286.jpg



Indicators of crossing visible from aerial photograph.

LM Start	14.22	Rating **	M	Issue No.	1224
LM End	14.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.242225 °	37.242225 °
				-120.817665 °	-120.817665 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36166 DS_ID:19641 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.21). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36166_65449.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	14.22	Rating **	M	Issue No.	1224 (cont)
LM End	14.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.242225 °	37.242225 °
				-120.817665 °	-120.817665 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36166 DS_ID:19641 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.21). FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_FA_2016_36166_65452.jpg



View of concrete headwall, concrete apron, and flap gate on waterward side.

LM Start	14.65	Rating **	M	Issue No.	1225
LM End	14.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.237584 °	37.237584 °
				-120.812967 °	-120.812967 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36167 DS_ID:19642 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope and toe. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.65). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36167_65455.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	14.65	Rating **	M	Issue No.	1225 (cont)	
LM End	14.65	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.237584 °		37.237584 °
				-120.812967 °		-120.812967 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36167						
DS_ID:19642						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope and toe. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.65).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36167_65454.jpg



Flap gate, concrete headwall, and concrete apron located on waterward toe.

LM Start	15.29	Rating **	M	Issue No.	1226
LM End	15.29	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.231428 °	37.231428 °
				-120.805543 °	-120.805543 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36168 DS_ID:19643 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.29). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36168_65459.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	15.29	Rating **	M	Issue No.	1226 (cont)	
LM End	15.29	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.231428 °		37.231428 °
				-120.805543 °		-120.805543 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36168						
DS_ID:19643						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.29).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36168_65457.jpg



Concrete headwall, flap gate, and concrete apron located on waterward side.

LM Start	15.58	Rating **	M	Issue No.	1233
LM End	15.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.228155 °	37.228155 °
				-120.802645 °	-120.802645 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36169 DS_ID:19644 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.57). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36169_65464.jpg



View of waterward side--flap gate visible through dense vegetation.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	15.58	Rating **	M	Issue No.	1233 (cont)	
LM End	15.58	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.228155 °	37.228155 °	
				-120.802645 °	-120.802645 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36169						
DS_ID:19644						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.57).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36169_65463.jpg



View of waterward slope covered by dense vegetation.

LM Start	15.82	Rating **	M	Issue No.	1234
LM End	15.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.226099 °	37.226099 °
				-120.799125 °	-120.799125 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36171 DS_ID:19645 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.81). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36171_65471.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1234 (cont)	
LM End	15.82	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.226099 °		37.226099 °
				-120.799125 °		-120.799125 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36171						
DS_ID:19645						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.81).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36171_65470.jpg



Flap gate visible on waterward side.

LM Start	16.09	Rating **	M	Issue No.	1235
LM End	16.09	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224157 °	37.224157 °
				-120.795250 °	-120.795250 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36172 DS_ID:19646 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.09). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36172_65476.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	16.09	Rating **	M	Issue No.	1235 (cont)	
LM End	16.09	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.224157 °		37.224157 °
				-120.795250 °		-120.795250 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36172 DS_ID:19646 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.09). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36172_65475.jpg



Flap gate visible on waterward toe.

LM Start	16.15	Rating **	M	Issue No.	1206
LM End	16.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224120 °	37.224120 °
				-120.794002 °	-120.794002 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39257					
DS_ID:19647					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.15).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39257_65480.jpg



View of 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**

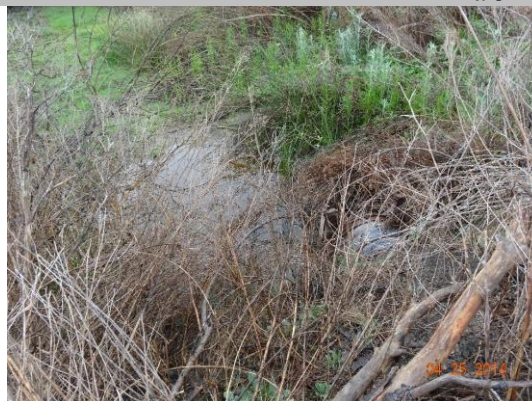
Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	16.15	Rating **	M	Issue No.	1206 (cont)
LM End	16.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224120 °	37.224120 °
				-120.794002 °	-120.794002 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39257 DS_ID:19647 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.15). FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_FA_2016_39257_65479.jpg



Crossing visible on waterward side under dense vegetation.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1207
LM End	16.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224223 °	37.224223 °
				-120.783806 °	-120.783806 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39258					
DS_ID:19648					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.72).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39258_66288.jpg



View of levee crown at crossing.

LM Start	16.72	Rating **	M	Issue No.	1207 (cont)
LM End	16.72	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39258_66289.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1232
LM End	16.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224223 °	37.224223 °
				-120.783806 °	-120.783806 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39360 DS_ID:24870 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status and reason for crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee at an unknown depth. Concrete standpipe visible on landward side. FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39360_71487.jpg



View of pipe located on waterward side.

LM Start	16.72	Rating **	M	Issue No.	1232 (cont)
LM End	16.72	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39360_71486.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	17.01	Rating **	M	Issue No.	1208
LM End	17.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.221838 °	37.221838 °
				-120.780230 °	-120.780230 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39259					
DS_ID:19577					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Concrete headwall is buried by dense vegetation. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.01).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39259_65518.jpg



View of waterward side.

LM Start	17.01	Rating **	M	Issue No.	1208 (cont)
LM End	17.01	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39259_65519.jpg



Flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	17.19	Rating **	M	Issue No.	1209
LM End	17.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.219302 °	37.219302 °
				-120.779475 °	-120.779475 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39260					
DS_ID:19578					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup inside pipe visible from landward side. Recommend clearing pipe.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.19).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39260_65525.jpg



View of waterward side.

LM Start	17.19	Rating **	M	Issue No.	1209 (cont)
LM End	17.19	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39260_65521.jpg



Pipe visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	17.26	Rating **	M	Issue No.	1240
LM End	17.26	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.218332 °	37.218332 °
				-120.779459 °	-120.779459 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36203
DS_ID:19579
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 15.8 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.26).
FS Date: 4/25/2014

LM Start	17.26	Rating **	M	Issue No.	1240 (cont)
LM End	17.26	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36203_65551.jpg



View of waterward slope.

Photo 2 of 2 : UCIP_FA_2016_36203_65552.jpg



Pipe visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	17.52	Rating **	M	Issue No.	1241
LM End	17.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.215976 °	37.215976 °
				-120.777615 °	-120.777615 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36204
DS_ID:19580
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.53).
FS Date: 4/25/2014

LM Start	17.52	Rating **	M	Issue No.	1241 (cont)
LM End	17.52	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36204_65547.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_36204_65546.jpg



Flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	18.18	Rating **	M	Issue No.	1210
LM End	18.18	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.210998 °	37.210998 °
				-120.768900 °	-120.768900 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39261					
DS_ID:19581					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend investigating integrity of pipe wall through levee heavy corrosion visible from landward side.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.19).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39261_65557.jpg



View of waterward side.

LM Start	18.18	Rating **	M	Issue No.	1210 (cont)
LM End	18.18	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39261_65556.jpg



Flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	18.77	Rating **	M	Issue No.	27
LM End	18.77	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.205080 °	37.205080 °
				-120.762655 °	-120.762655 °
DWR ID	DWR_NA0010_01_s_2014_27				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_NA0010_118_27_20161007_00016.jpg



Looking at prunings on waterward shoulder and slope.

LM Start	18.79	Rating **	M	Issue No.	1242
LM End	18.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.204966 °	37.204966 °
				-120.762511 °	-120.762511 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36246 DS_ID:19593 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.79). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_36246_65627.jpg



Overview of levee crown and waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	18.79	Rating **	M	Issue No.	1242 (cont)	
LM End	18.79	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.204966 °	37.204966 °	
				-120.762511 °	-120.762511 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36246						
DS_ID:19593						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.79).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_36246_65623.jpg



View of waterward side.

LM Start	19.17	Rating **	M	Issue No.	1211
LM End	19.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202801 °	37.202801 °
				-120.756209 °	-120.756209 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39263					
DS_ID:19594					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Non-functional crossing--pipe is buried on waterward side. Sediment buildup in pipe visible from landward side. Need to coordinate with owner to determine status. If crossing is no longer in use, owner will need to coordinate with DWR Inspector and CVFPB to properly abandon.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.0 feet below the crown. Slide gate on the waterward slope. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.17).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39263_65631.jpg



View of waterward slope. CMP riser and pipe visible.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	19.17	Rating **	M	Issue No.	1211 (cont)
LM End	19.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202801 °	37.202801 °
				-120.756209 °	-120.756209 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39263					
DS_ID:19594					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Non-functional crossing--pipe is buried on waterward side. Sediment buildup in pipe visible from landward side. Need to coordinate with owner to determine status. If crossing is no longer in use, owner will need to coordinate with DWR Inspector and CVFPB to properly abandon.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.0 feet below the crown. Slide gate on the waterward slope. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.17).					
FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_FA_2016_39263_65630.jpg



View of waterward side.

LM Start	19.32	Rating **	M	Issue No.	1227
LM End	19.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200921 °	37.200921 °
				-120.756901 °	-120.756901 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39266 DS_ID:24871 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New crossing found during field inspection--Need to contact owner to obtain additional information about crossing. FIELD_STRUCT_DESC: 1 of 2: 20-inch steel pipe through levee at an unknown depth. Pump station located on landward side. Electrical panel located on landward side. FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39266_71421.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	19.32	Rating **	M	Issue No.	1227 (cont)	
LM End	19.32	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.200921 °	37.200921 °	
				-120.756901 °	-120.756901 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39266						
DS_ID:24871						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: New crossing found during field inspection--Need to contact owner to obtain additional information about crossing.						
FIELD_STRUCT_DESC: 1 of 2: 20-inch steel pipe through levee at an unknown depth. Pump station located on landward side. Electrical panel located on landward side.						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_39266_71420.jpg



Overview of levee crown at crossing.

LM Start	19.32	Rating **	M	Issue No.	1228
LM End	19.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200919 °	37.200919 °
				-120.756928 °	-120.756928 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39267 DS_ID:24872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New crossing found during field inspection--Need to contact owner to obtain additional information about crossing. FIELD_STRUCT_DESC: 2 of 2: 20-inch steel pipe through levee at an unknown depth. Pump station located on landward side. Electrical panel located on landward side. FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39267_71427.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	19.32	Rating **	M	Issue No.	1228 (cont)
LM End	19.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200919 °	37.200919 °
				-120.756928 °	-120.756928 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39267 DS_ID:24872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New crossing found during field inspection--Need to contact owner to obtain additional information about crossing. FIELD_STRUCT_DESC: 2 of 2: 20-inch steel pipe through levee at an unknown depth. Pump station located on landward side. Electrical panel located on landward side. FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_FA_2016_39267_71425.jpg



View of levee crown at crossings.

LM Start	19.53	Rating **	M	Issue No.	1229
LM End	19.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.199427 °	37.199427 °
				-120.760235 °	-120.760235 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39268 DS_ID:19596 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Dense vegetation blocks both waterward and landward headwalls. Sediment buildup in pipe visible from landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.54). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39268_65641.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	19.53	Rating **	M	Issue No.	1229 (cont)	
LM End	19.53	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.199427 °	37.199427 °	
				-120.760235 °	-120.760235 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39268 DS_ID:19596 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Dense vegetation blocks both waterward and landward headwalls. Sediment buildup in pipe visible from landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.54). FS Date: 4/25/2014						

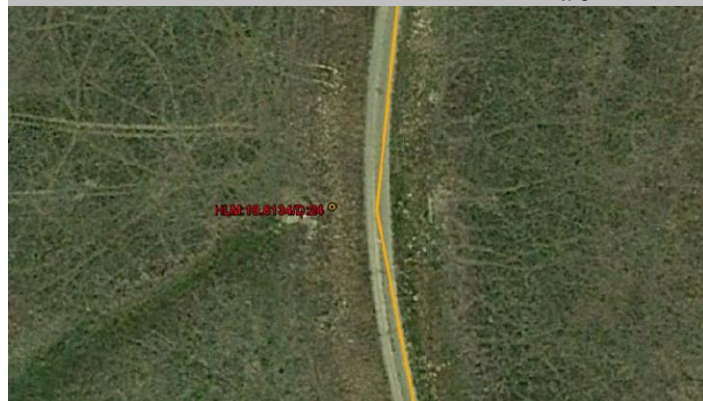
Photo 2 of 2 : UCIP_FA_2016_39268_65640.jpg



Flap gate visible on waterward side--potential erosion present on slope.

LM Start	19.81	Rating **	M	Issue No.	1244
LM End	19.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.197502 °	37.197502 °
				-120.764045 °	-120.764045 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36253 DS_ID:19597 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: No photos available for crossing--crossing missed. Recommend taking photos to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.81). FS Date: 4/25/2014					

Photo 1 of 1 : UCIP_FA_2016_36253_65645.jpg



Indicators that a crossing is still present through the levee. Flap gate should be in 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	20.18	Rating **	M	Issue No.	1230
LM End	20.18	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.194669 °	37.194669 °
				-120.759736 °	-120.759736 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39269 DS_ID:19598 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend removing vegetation and sediment buildup from both waterward and landward concrete headwalls. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.18). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39269_65648.jpg



Enter photo 1 description or comment here.

LM Start	20.18	Rating **	M	Issue No.	1230 (cont)
LM End	20.18	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39269_65647.jpg



Enter photo 2 description or comment here.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	20.25	Rating **	U	Issue No.	1184
LM End	20.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.193657 °	37.193657 °
				-120.760138 °	-120.760138 °
DWR ID	DWR_NA0010_01_s_2015_1184				
Comment Code					
RA : Ramp					
Inspector Comment					
Landowner installed unauthorized ramp on landward slope and toe.					

LM Start	20.25	Rating **	U	Issue No.	1184 (cont)
LM End	20.25	Issue Type +	En	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_118_1184_20161007_00025.jpg



Looking north at ramp cut into landward slope.

Photo 2 of 2 : FA_2016_NA0010_118_1184_20161007_00026.jpg



Looking east at ramp cut into landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	20.26	Rating **	M	Issue No.	1238
LM End	20.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193550 °	37.193550 °
				-120.760284 °	-120.760284 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39285					
DS_ID:24873					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 12-inch steel sleeved into a 24-inch steel pipe through levee at an unknown depth.					
FS Date: 4/25/2014					

LM Start	20.26	Rating **	M	Issue No.	1238 (cont)
LM End	20.26	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39285_71446.jpg



Outlet visible on waterward side.

Photo 2 of 2 : UCIP_FA_2016_39285_71445.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1253
LM End	20.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193542 °	37.193542 °
				-120.760300 °	-120.760300 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49965
DS_ID:19599
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/19/2016 same as previous inspection. crossing was downgraded from Urgent to Non-Urgent due to metal rod not interfering with flap gate. (DWR UCIP - omagana)4/25/2014
Unauthorized crossing through pipe. Line was pushed through existing crossing. Need to contact owner. Also sediment buildup in pipe visible from landward side--recommend clearing. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 5 feet below the crown. Flap gate located on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002]
FS Date: 7/19/2016

LM Start	20.27	Rating **	M	Issue No.	1253 (cont)
LM End	20.27	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_49965_66303.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_49965_66304.jpg



View of WS.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1250	
LM End	20.27	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.193542 °		37.193542 °
				-120.760300 °		-120.760300 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39878						
DS_ID:19600						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Crossing partially submersed--no signs of failure of pipe present along pipe alignment. Recommend contacting owner to determine status of crossing and condition.						
FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 10.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.27).						
FS Date: 4/25/2014						

LM Start	20.27	Rating **	M	Issue No.	1250 (cont)
LM End	20.27	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39878_66308.jpg



Overview of levee crown at crossing--multiple crossings at this location.

Photo 2 of 2 : UCIP_FA_2016_39878_66309.jpg



Multiple crossings visible on waterward side--36 inch CMP is submersed in water.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1239
LM End	20.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193542 °	37.193542 °
				-120.760300 °	-120.760300 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39286					
DS_ID:24874					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 18-inch steel sleeved into a 24-inch steel pipe through levee at an unknown depth.					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39286_71442.jpg



Outlets visible on waterward side.

LM Start	20.27	Rating **	M	Issue No.	1239 (cont)
LM End	20.27	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39286_71441.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	21.32	Rating **	U	Issue No.	8
LM End	22.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.180109 °	37.167498 °
				-120.762154 °	-120.750862 °
DWR ID	DWR_NA0010_01_f_2015_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on waterward slope.					

Photo 1 of 1 : FA_2016_NA0010_118_8_20161024_00238.jpg



Looking downstream at dense veg on waterward slope.

LM Start	21.40	Rating **	M	Issue No.	1231
LM End	21.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.179065 °	37.179065 °
				-120.761567 °	-120.761567 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39271 DS_ID:19603 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional--crossing buried on landward side. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.40). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39271_66312.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	21.40	Rating **	M	Issue No.	1231 (cont)	
LM End	21.40	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.179065 °	37.179065 °	
				-120.761567 °	-120.761567 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39271						
DS_ID:19603						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Crossing is non-functional--crossing buried on landward side. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.						
FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.40).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_FA_2016_39271_66313.jpg



Flap gate half way submersed located on waterward side.

LM Start	21.75	Rating **	M	Issue No.	1236
LM End	21.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.176106 °	37.176106 °
				-120.756768 °	-120.756768 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39272 DS_ID:19604 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional crossing-landward side is buried. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.76). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39272_65697.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	21.75	Rating **	M	Issue No.	1236 (cont)
LM End	21.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.176106 °	37.176106 °
				-120.756768 °	-120.756768 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39272					
DS_ID:19604					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Non-functional crossing-landward side is buried.					
Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.76).					
FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_FA_2016_39272_65695.jpg



Flap gate visible on waterward side.

LM Start	22.06	Rating **	U	Issue No.	22
LM End	22.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.172074 °	37.166983 °
				-120.754628 °	-120.750127 °
DWR ID	DWR_NA0010_01_s_2012_22				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch has encroach into landward toe and slope.					

Photo 1 of 3 : FA_2016_NA0010_118_22_20161007_00013.jpg



Looking downstream at irrigation ditch at LM 22.06

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	22.06	Rating **	U	Issue No.	22 (cont)
LM End	22.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.172074 °	37.166983 °
				-120.754628 °	-120.750127 °
DWR ID	DWR_NA0010_01_s_2012_22				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch has encroach into landward toe and slope.					

Photo 2 of 3 : FA_2016_NA0010_118_22_20161007_00014.jpg



Looking downstream at irrigation ditch at landside toe.

LM Start	22.06	Rating **	U	Issue No.	22 (cont)
LM End	22.51	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_118_22_20161007_00015.jpg



Looking upstream at irrigation at landside 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	22.12	Rating **	M	Issue No.	1237
LM End	22.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.171181 °	37.171181 °
				-120.754526 °	-120.754526 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39273 DS_ID:19605 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional crossing--landward side is buried. Need to contact owner to determine status. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Wooden head- boards on the landward end of pipe. Brass cap No. 31 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.13). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39273_65709.jpg



View of waterward side.

LM Start	22.12	Rating **	M	Issue No.	1237 (cont)
LM End	22.12	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39273_65707.jpg



Flap gate visible 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 02A San Joaquin River			Left	7.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/19/2016 - 5/19/2016		10/21/2016 - 10/21/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	24
LM End	2.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.296313 °	37.291556 °
				-120.880576 °	-120.851252 °
DWR ID	DWR_NA0010_02A_s_2016_24				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Control annual weeds and regrade levee crown.					

Photo 1 of 1 : FA_2016_NA0010_119_24_20161007_00006.jpg



Looking northeast at veg on levee crown.

LM Start	0.00	Rating **	M	Issue No.	27
LM End	1.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296305 °	37.286489 °
				-120.880567 °	-120.865966 °
DWR ID	DWR_NA0010_02A_f_2015_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_119_27_20161024_00065.jpg



Looking at dense veg on landward slope. (Fall 2016)

LM Start	0.00	Rating **	M	Issue No.	27 (cont)
LM End	1.33	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_119_27_20161007_00007.jpg



Looking at dense veg on landward slope. (Spring 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	28
LM End	1.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296305 °	37.286489 °
				-120.880567 °	-120.865966 °
DWR ID	DWR_NA0010_02A_f _ 2015_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_119_28_20161024_00066.jpg



Looking north at dense veg on waterward slope. (Fall 2016)

LM Start	0.00	Rating **	M	Issue No.	28 (cont)
LM End	1.33	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_NA0010_119_28_20161007_00008.jpg



Looking north at dense veg on waterward slope. (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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.23	Rating **	M	Issue No.	34
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.293440 °	37.293440 °
				-120.878978 °	-120.878978 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36503					
DS_ID:19652					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 139 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.24).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36503_66102.jpg



View of waterward side.

LM Start	0.23	Rating **	M	Issue No.	34 (cont)
LM End	0.23	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36503_66101.jpg



Fence along waterward side. No headwall was found 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	35
LM End	0.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.288087 °	37.288087 °
				-120.874919 °	-120.874919 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36504 DS_ID:19653 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.8 feet below the crown. Flap gate on the waterward end. Brass cap No. 138 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.67). FS Date: 5/1/2014					

LM Start	0.66	Rating **	M	Issue No.	35 (cont)
LM End	0.66	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36504_66106.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_36504_66105.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.75	Rating **	U	Issue No.	5
LM End	0.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.286877 °	37.286877 °
				-120.874222 °	-120.874222 °
DWR ID	DWR_NA0010_02A_s_2012_5				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
A field investigation report in on file. For more information and pictures see field investigation report #4301.					

LM Start	0.75	Rating **	U	Issue No.	5 (cont)
LM End	0.75	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2016_NA0010_119_5_20161007_00003.jpg



Looking north at erosion on waterward slope. (Fall 2014)

Photo 2 of 3 : FA_2016_NA0010_119_5_20161007_00004.jpg



Looking north at large erosion on waterward slope. (Fall 2013)

LM Start	0.75	Rating **	U	Issue No.	5 (cont)
LM End	0.75	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2016_NA0010_119_5_20161007_00005.jpg



Looking south at large erosion on waterside slope. (Spring 2012)

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	1.01	Rating **	M	Issue No.	31
LM End	1.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.284889 °	37.284889 °
				-120.871352 °	-120.871352 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39363
DS_ID:19654
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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. Sediment buildup in pipe recommend clearing.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 137 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.02).
FS Date: 5/1/2014

LM Start	1.01	Rating **	M	Issue No.	31 (cont)
LM End	1.01	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39363_66113.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_39363_66112.jpg



Pipe visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	1.21	Rating **	M	Issue No.	36
LM End	1.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.286118 °	37.286118 °
				-120.868167 °	-120.868167 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36506 DS_ID:19655 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 136 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.22). FS Date: 5/1/2014					

LM Start	1.21	Rating **	M	Issue No.	36 (cont)
LM End	1.21	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36506_66114.jpg



Overview of waterward side.

Photo 2 of 2 : UCIP_FA_2016_36506_66117.jpg



Flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	1.33	Rating **	M	Issue No.	37
LM End	1.33	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.286463 °	37.286463 °
				-120.865997 °	-120.865997 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36507 DS_ID:19656 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 14.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.34). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36507_66120.jpg



View of landward side.

LM Start	1.33	Rating **	M	Issue No.	37 (cont)
LM End	1.33	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36507_66119.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	1.61	Rating **	M	Issue No.	38
LM End	1.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.288599 °	37.288599 °
				-120.862007 °	-120.862007 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36508
DS_ID:19657
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.62).
FS Date: 5/1/2014

LM Start	1.61	Rating **	M	Issue No.	38 (cont)
LM End	1.61	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36508_66124.jpg



Overview of landward side.

Photo 2 of 2 : UCIP_FA_2016_36508_66123.jpg



Dense vegetation along levee slope and 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	1.85	Rating **	M	Issue No.	39
LM End	1.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.290836 °	37.290836 °
				-120.858882 °	-120.858882 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36509
DS_ID:19658
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.86).
FS Date: 5/1/2014

LM Start	1.85	Rating **	M	Issue No.	39 (cont)
LM End	1.85	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36509_66129.jpg



View of landward side.

Photo 2 of 2 : UCIP_FA_2016_36509_66128.jpg



Concrete headwall visible 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.28	Rating **	M	Issue No.	40
LM End	2.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.291686 °	37.291686 °
				-120.851475 °	-120.851475 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36510
DS_ID:19659
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.30).
FS Date: 5/1/2014

LM Start	2.28	Rating **	M	Issue No.	40 (cont)
LM End	2.28	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36510_66133.jpg



View of landward side.

Photo 2 of 2 : UCIP_FA_2016_36510_66132.jpg



Concrete headwall visible on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.30	Rating **	M	Issue No.	41
LM End	2.30	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.291532 °	37.291532 °
				-120.851203 °	-120.851203 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36511
DS_ID:19660
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.32).
FS Date: 5/1/2014

LM Start	2.30	Rating **	M	Issue No.	41 (cont)
LM End	2.30	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36511_66137.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_36511_66136.jpg



Flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	2
LM End	2.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.291433 °	37.291433 °
				-120.850917 °	-120.850917 °
DWR ID	DWR_NA0010_02A_s_2012_2				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on landside and waterside slope.					

LM Start	2.32	Rating **	M	Issue No.	2 (cont)
LM End	2.32	Issue Type +	En	Location *	LS

Photo 1 of 4 : FA_2016_NA0010_119_2_20161007_00001.jpg



Looking northeast at unauthorized ramp on landward slope.

Photo 2 of 4 : FA_2016_NA0010_119_2_20161007_00002.jpg



Looking northwest at unauthorized ramp on waterward slope.

LM Start	2.32	Rating **	M	Issue No.	2 (cont)
LM End	2.32	Issue Type +	En	Location *	LS

Photo 3 of 4 : FA_2016_NA0010_119_2_20161024_00068.jpg



* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	2 (cont)	
LM End	2.32	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.291433 °		37.291433 °
				-120.850917 °		-120.850917 °
DWR ID	DWR_NA0010_02A_s_2012_2					
Comment Code						
RA : Ramp						
Inspector Comment						
Unauthorized ramp on landside and waterside slope.						

Photo 4 of 4 : FA_2016_NA0010_119_2_20161024_00067.jpg



Looking at ramp on landward slope. (Fall 2016)

LM Start	2.58	Rating **	M	Issue No.	42
LM End	2.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.289487 °	37.289487 °
				-120.846941 °	-120.846941 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36512					
DS_ID:19661					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.59).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36512_66142.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	42 (cont)	
LM End	2.58	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.289487 °		37.289487 °
				-120.846941 °		-120.846941 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36512						
DS_ID:19661						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 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.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.59).						
FS Date: 5/1/2014						

Photo 2 of 2 : UCIP_FA_2016_36512_66141.jpg



Concrete headwall visible on landward side.

LM Start	2.95	Rating **	M	Issue No.	43
LM End	2.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.284326 °	37.284326 °
				-120.845157 °	-120.845157 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36513 DS_ID:19662 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.96). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36513_66145.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	43 (cont)	
LM End	2.95	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.284326 °	37.284326 °	
				-120.845157 °	-120.845157 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36513						
DS_ID:19662						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 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.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.96).						
FS Date: 5/1/2014						

Photo 2 of 2 : UCIP_FA_2016_36513_66144.jpg



Flap gate visible on waterward side.

LM Start	3.28	Rating **	M	Issue No.	44
LM End	3.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.279656 °	37.279656 °
				-120.844795 °	-120.844795 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36514 DS_ID:19665 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.29). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36514_66151.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	3.28	Rating **	M	Issue No.	44 (cont)	
LM End	3.28	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.279656 °		37.279656 °
				-120.844795 °		-120.844795 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36514 DS_ID:19665 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.29). FS Date: 5/1/2014						

Photo 2 of 2 : UCIP_FA_2016_36514_66153.jpg



Flap gate visible on waterward side.

LM Start	3.61	Rating **	M	Issue No.	45
LM End	3.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.278203 °	37.278203 °
				-120.839884 °	-120.839884 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36515					
DS_ID:19666					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.62).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36515_66155.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	3.61	Rating **	M	Issue No.	45 (cont)	
LM End	3.61	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.278203 °	37.278203 °	
				-120.839884 °	-120.839884 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36515 DS_ID:19666 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.62). FS Date: 5/1/2014						

Photo 2 of 2 : UCIP_FA_2016_36515_66154.jpg



Flap gate visible on waterward side.

LM Start	3.94	Rating **	M	Issue No.	32
LM End	3.94	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.279704 °	37.279704 °
				-120.834709 °	-120.834709 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39364					
DS_ID:19667					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Signs of erosion or sink hole present on landward toe--Need to contact owner. 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.95).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39364_66161.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	3.94	Rating **	M	Issue No.	32 (cont)
LM End	3.94	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.279704 °	37.279704 °
				-120.834709 °	-120.834709 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39364					
DS_ID:19667					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Signs of erosion or sink hole present on landward toe--Need to contact owner. 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.95).					
FS Date: 5/1/2014					

Photo 2 of 2 : UCIP_FA_2016_39364_66160.jpg



View of waterward side.

LM Start	5.41	Rating **	M	Issue No.	46
LM End	5.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.260069 °	37.260069 °
				-120.831768 °	-120.831768 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36517					
DS_ID:19668					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.43).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36517_66167.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	5.41	Rating **	M	Issue No.	46 (cont)	
LM End	5.41	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.260069 °		37.260069 °
				-120.831768 °		-120.831768 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36517						
DS_ID:19668						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 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.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.43).						
FS Date: 5/1/2014						

Photo 2 of 2 : UCIP_FA_2016_36517_66166.jpg



Flap gate visible on waterward side.

LM Start	6.03	Rating **	M	Issue No.	47
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.253527 °	37.253527 °
				-120.823991 °	-120.823991 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36518 DS_ID:19669 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.06). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36518_66171.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	6.03	Rating **	M	Issue No.	47 (cont)	
LM End	6.03	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.253527 °		37.253527 °
				-120.823991 °		-120.823991 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36518 DS_ID:19669 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.06). FS Date: 5/1/2014						

Photo 2 of 2 : UCIP_FA_2016_36518_66170.jpg



View of waterward side.

LM Start	6.47	Rating **	M	Issue No.	29
LM End	6.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.248210 °	37.248210 °
				-120.823120 °	-120.823120 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36519 DS_ID:19670 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.50). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36519_66173.jpg



View of 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	6.85	Rating **	M	Issue No.	22 (cont)	
LM End	6.85	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.242833 °		37.242833 °
				-120.822270 °		-120.822270 °
DWR ID	DWR_NA0010_02A_f _ 2016_22					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Noticed several burrow holes on the levee crown. It does not seem to be rodent holes or gopher holes. It could be moles.						

Photo 2 of 2 : FA_2016_NA0010_119_22_20161024_00071.jpg



Looking at close-up of rodent hole on levee crown.

LM Start	7.02	Rating **	M	Issue No.	33
LM End	7.02	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240333 °	37.240333 °
				-120.821490 °	-120.821490 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39365					
DS_ID:19671					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 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. Pipe extension visible on landward side--need to contact owner for additional information about extension/modification.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.05).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39365_66178.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	7.02	Rating **	M	Issue No.	33 (cont)
LM End	7.02	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240333 °	37.240333 °
				-120.821490 °	-120.821490 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39365 DS_ID:19671 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. Pipe extension visible on landward side--need to contact owner for additional information about extension/modification. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.05). FS Date: 5/1/2014					

Photo 2 of 2 : UCIP_FA_2016_39365_66177.jpg



Pipe extension visible on landward side attached to inlet at concrete headwall.

LM Start	7.74	Rating **	M	Issue No.	30
LM End	7.74	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.232650 °	37.232650 °
				-120.813363 °	-120.813363 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36521					
DS_ID:19673					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.77).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36521_66183.jpg



View of waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	7.74	Rating **	M	Issue No.	30 (cont)	
LM End	7.74	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.232650 °	37.232650 °	
				-120.813363 °	-120.813363 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36521						
DS_ID:19673						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 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.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.77).						
FS Date: 5/1/2014						

Photo 2 of 2 : UCIP_FA_2016_36521_66182.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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 02B San Joaquin River			Left	5.92
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/19/2016 - 5/20/2016		10/21/2016 - 10/21/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	7.96	Rating **	M	Issue No.	16
LM End	9.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.230198 °	37.220483 °
				-120.810702 °	-120.792864 °
DWR ID	DWR_NA0010_02B_f _ 2016_16				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Rutting cause by driving to fast.					

No Photos

LM Start	8.13	Rating **	M	Issue No.	173
LM End	8.13	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.228343 °	37.228343 °
				-120.808789 °	-120.808789 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39366 DS_ID:19674 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope and landward headwall. Recommend removing vegetation along pipe alignment and toe to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 120 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.16). FS Date: 5/14/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	174
LM End	8.46	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.225241 °	37.225241 °
				-120.804286 °	-120.804286 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39367 DS_ID:19675 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation on landward toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward slope. Recommend removing vegetation along pipe alignment toe to conduct proper inspection of structure. Sediment buildup in pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 120 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.48). FS Date: 5/14/2014					

No Photos

LM Start	8.83	Rating **	M	Issue No.	176
LM End	8.83	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.222271 °	37.222271 °
				-120.798705 °	-120.798705 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42503 DS_ID:19676 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. Burrow activity presen on waterward slope. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Brass cap No. 120 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.86). FS Date: 5/14/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	9.00	Rating **	M	Issue No.	168
LM End	9.00	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.220888 °	37.220888 °
				-120.796394 °	-120.796394 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36525 DS_ID:19677 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Brass cap No. 120 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.02). FS Date: 5/14/2014					

No Photos

LM Start	9.17	Rating **	M	Issue No.	179
LM End	9.17	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.220520 °	37.220520 °
				-120.793277 °	-120.793277 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40443 DS_ID:19678 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 120 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.20). FS Date: 5/14/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	9.42	Rating **	M	Issue No.	17
LM End	9.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.220199 °	37.220199 °
				-120.788748 °	-120.788748 °
DWR ID	DWR_NA0010_02B_f_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim back dead tree limb on landward toe.					

Photo 1 of 1 : FA_2016_NA0010_120_17_20161024_00005.jpg



Looking at dead tree limb on landward slope.

LM Start	9.43	Rating **	M	Issue No.	169
LM End	9.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.220227 °	37.220227 °
				-120.788634 °	-120.788634 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36527 DS_ID:19686 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 115 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.46). FS Date: 5/14/2014					

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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	10.09	Rating **	M	Issue No.	170
LM End	10.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.214229 °	37.214229 °
				-120.784350 °	-120.784350 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36528 DS_ID:19687 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 115 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.12). FS Date: 5/14/2014					

No Photos

LM Start	10.78	Rating **	M	Issue No.	177
LM End	10.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.206352 °	37.206352 °
				-120.777634 °	-120.777634 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42504 DS_ID:19688 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. Sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Brass cap No. 115 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.81). FS Date: 5/14/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	10.94	Rating **	M	Issue No.	14
LM End	10.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.205711 °	37.205711 °
				-120.774741 °	-120.774741 °
DWR ID	DWR_NA0010_02B_f_2015_14				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landward slope.					

Photo 1 of 1 : FA_2016_NA0010_120_14_20161007_00004.jpg



Looking at prunings on landward slope.

LM Start	11.14	Rating **	M	Issue No.	171
LM End	11.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.204640 °	37.204640 °
				-120.771564 °	-120.771564 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36530					
DS_ID:19689					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 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.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Brass cap No. 115 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.17).					
FS Date: 5/14/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	11.40	Rating **	M	Issue No.	172
LM End	11.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201792 °	37.201792 °
				-120.768462 °	-120.768462 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36531 DS_ID:19690 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Screw gate on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.43). FS Date: 5/14/2014					

No Photos

LM Start	12.21	Rating **	M	Issue No.	1
LM End	12.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.191528 °	37.191528 °
				-120.764541 °	-120.764541 °
DWR ID	DWR_NA0010_02B_f_2014_1				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree limbs on landward slope.					

Photo 1 of 2 : FA_2016_NA0010_120_1_20161007_00001.jpg



Looking northwest at tree limb on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	12.21	Rating **	M	Issue No.	1 (cont)	
LM End	12.21	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.191528 °	37.191528 °	
				-120.764541 °	-120.764541 °	
DWR ID	DWR_NA0010_02B_f_2014_1					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Fallen tree limbs on landward slope.						

Photo 2 of 2 : FA_2016_NA0010_120_1_20161007_00002.jpg



Looking southwest at tree limb on waterward slope.

LM Start	13.18	Rating **	M	Issue No.	175
LM End	13.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.179265 °	37.179265 °
				-120.764870 °	-120.764870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39370 DS_ID:19663 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. Sediment buildup in pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 6.5 feet below the crown. Slide gate in pipe riser on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.22). FS Date: 5/14/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	13.42	Rating **	U	Issue No.	167
LM End	13.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.176379 °	37.176379 °
				-120.762255 °	-120.762255 °
DWR ID	DWR_NA0010_02B_s_2015_167				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense trees on waterward slope.					

Photo 1 of 1 : FA_2016_NA0010_120_167_20161024_00009.jpg



Looking south at untrimmed trees on waterward slope.

LM Start	13.67	Rating **	M	Issue No.	178
LM End	13.67	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.173327 °	37.173327 °
				-120.761055 °	-120.761055 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39891 DS_ID:19664 EP_NO: 14138 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10 feet below the crown. Concrete cutoff wall at the centerline of pipe. Flap gate on the landward end. Screw gate on the waterward end, with accessible walkway. (Permit No. 14138-1985). FS Date: 5/14/2014					

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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River			Right	2.10
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/18/2016 - 5/18/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.19	Rating **	M	Issue No.	67
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.109013 °	37.109013 °
				-120.587799 °	-120.587799 °
DWR ID	DWR_NA0010_03_s_2015_67				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes noted at landward toe.					

No Photos

LM Start	0.42	Rating **	M	Issue No.	68
LM End	0.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.106233 °	37.106233 °
				-120.585797 °	-120.585797 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34083 DS_ID:19691 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend removing tall grass on landward slope and clearing sediment build up inside pipe. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.43). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_34083_61941.jpg



Concrete structure and flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	68 (cont)
LM End	0.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.106233 °	37.106233 °
				-120.585797 °	-120.585797 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34083 DS_ID:19691 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend removing tall grass on landward slope and clearing sediment build up inside pipe. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.43). FS Date: 4/17/2014					

Photo 2 of 2 : UCIP_FA_2016_34083_61940.jpg



View of waterward side.

LM Start	1.54	Rating **	M	Issue No.	65
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.094270 °	37.094270 °
				-120.573112 °	-120.573112 °
DWR ID	DWR_NA0010_03_s _ 2015_65				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.71	Rating **	M	Issue No.	69
LM End	1.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.092079 °	37.092079 °
				-120.572316 °	-120.572316 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39371 DS_ID:19693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 6.8 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.72). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_39371_66252.jpg



View of levee crown at crossing.

LM Start	1.71	Rating **	M	Issue No.	69 (cont)
LM End	1.71	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39371_66254.jpg



Concrete structure 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	10/20/2016 10/20/2016	Richard Willoughby

LM Start	2.04	Rating **	M	Issue No.	70
LM End	2.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.089394 °	37.089394 °
				-120.567731 °	-120.567731 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36543 DS_ID:19694 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner--additional appurtenances found on waterward side not part of original description. Unable to determine if walkway, pump, and pipe through waterward berm is if part of original crossing. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 6.6 feet below the crown. Slide gate on the waterward end. Pump on the waterward bank. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.05). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_36543_66281.jpg



Slide gate and concrete structure located on waterward slope.

LM Start	2.04	Rating **	M	Issue No.	70 (cont)
LM End	2.04	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36543_66282.jpg



View of walkway and berm 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 04 San Joaquin River			Left	1.41
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/18/2016 - 5/18/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	8
LM End	0.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112353 °	37.112353 °
				-120.589565 °	-120.589565 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40529					
DS_ID:19977					
EP_NO: 5024					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gates blocked by sediment. Recommend contacting owner to determine status of crossing. Crossing appears to be abandoned.					
FIELD_STRUCT_DESC: [San Joaquin River Diversion Structure] 1 of 4: 72x60-inch R.C.B.C. through the levee, 21.0 feet below the crown. Slide gates on the waterward side. Concrete headwalls on both sides. Landward slope cobble revetted. Flashboards can be seen on the downstream side of the structure.					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_40529_61969.jpg



View of concrete structure located on landward side.

LM Start	0.03	Rating **	M	Issue No.	8 (cont)
LM End	0.03	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40529_61968.jpg



View of levee crown.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	4
LM End	0.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112348 °	37.112348 °
				-120.589581 °	-120.589581 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36875 DS_ID:24856 EP_NO: 5024 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gates blocked by sediment. Recommend contacting owner to determine status of crossing. Crossing appears to be abandoned. FIELD_STRUCT_DESC: [San Joaquin River Diversion Structure] 2 of 4: 72x60-inch R.C.B.C. through the levee, 21.0 feet below the crown. Slide gates on the waterward side. Concrete headwalls on both sides. Landward slope cobble revetted. Flashboards can be seen on the downstream side of the structure. FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_36875_67308.jpg



View of concrete structure located on landward side.

LM Start	0.04	Rating **	M	Issue No.	4 (cont)
LM End	0.04	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36875_67307.jpg



View of levee crown.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	5
LM End	0.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112343 °	37.112343 °
				-120.589601 °	-120.589601 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36876 DS_ID:24857 EP_NO: 5024 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gates blocked by sediment. Recommend contacting owner to determine status of crossing. Crossing appears to be abandoned. FIELD_STRUCT_DESC: [San Joaquin River Diversion Structure] 3 of 4: 72x60-inch R.C.B.C. through the levee, 21.0 feet below the crown. Slide gates on the waterward side. Concrete headwalls on both sides. Landward slope cobble revetted. Flashboards can be seen on the downstream side of the structure. FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_36876_67318.jpg



View of concrete structure located on landward side.

LM Start	0.04	Rating **	M	Issue No.	5 (cont)
LM End	0.04	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36876_67317.jpg



View of levee crown.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	6	
LM End	0.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.112336 °		37.112336 °
				-120.589624 °		-120.589624 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36877						
DS_ID:24858						
EP_NO: 5024						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Slide gates blocked by sediment. Recommend contacting owner to determine status of crossing. Crossing appears to be abandoned.						
FIELD_STRUCT_DESC: [San Joaquin River Diversion Structure] 4 of 4: 72x60-inch R.C.B.C. through the levee, 21.0 feet below the crown. Slide gates on the waterward side. Concrete headwalls on both sides. Landward slope cobble revetted. Flashboards can be seen on the downstream side of the structure.						
FS Date: 4/17/2014						

Photo 1 of 2 : UCIP_FA_2016_36877_67328.jpg



View of concrete structure located on landward side.

LM Start	0.04	Rating **	M	Issue No.	6 (cont)
LM End	0.04	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36877_67327.jpg



View of levee crown.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	7
LM End	0.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.109933 °	37.109933 °
				-120.590689 °	-120.590689 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34093 DS_ID:19695 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment and debris blocking concrete headwall located on waterward side. During inspection water was flowing from landward side to waterward side. Recommend removing sediment to confirm condition of flap gate and pipe. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 18.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both sides. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.27). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_34093_61982.jpg



View of dense vegetation near concrete headwall located on waterward side.

LM Start	0.24	Rating **	M	Issue No.	7 (cont)
LM End	0.24	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_34093_61981.jpg



Sediment blocking flap gate 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.32	Rating **	M	Issue No.	3
LM End	1.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.108822 °	37.097556 °
				-120.590718 °	-120.578130 °
DWR ID	DWR_NA0010_04_s_2012_3				
Comment Code					
DT : Ditch					
Inspector Comment					
Agricultural ditch within 10' easement.					

Photo 1 of 3 : FA_2016_NA0010_122_3_20161007_00001.jpg



Looking north at irrigation ditch at landside toe.

LM Start	0.32	Rating **	M	Issue No.	3 (cont)
LM End	1.41	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2016_NA0010_122_3_20161007_00002.jpg



Looking north at irrigation ditch at landward toe. (Fall 2013)

LM Start	0.32	Rating **	M	Issue No.	3 (cont)
LM End	1.41	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_122_3_20161007_00003.jpg



Looking north at irrigation ditch at landside toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.34	Rating **	M	Issue No.	9
LM End	1.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.095274 °	37.095274 °
				-120.577959 °	-120.577959 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40530					
DS_ID:19975					
EP_NO: 3416					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Unable to confirm if crossing is still in use. Need to contact owner to confirm status.					
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe, encased in 6-inches of reinforced concrete through the levee. Concrete cutoff wall at center of levee. Pumping plant on the waterward bank. Pump and irrigation pipe retained under Permit No. 3416 (1964).					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_40530_61987.jpg



View of waterward side.

LM Start	1.34	Rating **	M	Issue No.	9 (cont)
LM End	1.34	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40530_61988.jpg



Overview of waterward side and levee crown at crossing.

* 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 05 East Side Bypass			Right	34.85
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/16/2016 - 5/18/2016		10/18/2016 - 10/19/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	0.08	Rating **	M	Issue No.	1325
LM End	0.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.278174 °	37.278174 °
				-120.823465 °	-120.823465 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39563 DS_ID:19756 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris blocking landward headwall--recommend clearing. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.07). FS Date: 4/9/2014					

LM Start	0.08	Rating **	M	Issue No.	1325 (cont)
LM End	0.08	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39563_60921.jpg



Pipe, flapgate, and concrete headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39563_60920.jpg



Pipe, flapgate, and concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	0.31	Rating **	U	Issue No.	1375
LM End	0.31	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.276669 °	37.276669 °
				-120.819755 °	-120.819755 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49967
DS_ID:24867
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/20/2016 same as previous inspection. Levee section at crossing has been degraded. According to LMA representative, Rick, the low point at crossing has been present for over 10 years when the pipe was replaced. (DWR UCIP - omagana)04/09/2014 Pipe is open on both ends and levee has been degraded at this location. No permit identified for this crossing. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 96-inch corrugated metal drainage pipe through the levee, 4.5 feet below the crown. Pipe is composed of two materials, corrugated metal pipe (CMP) on the WS and steel pipe on the LS. This section of the levee is a degraded section that drops approximately 4 feet within 100 feet in length. This section of the levee is the site of the 1960's levee breach. [Additional Reference(s): USACE Periodic Inspection Report 2014, USACE_CESPK_L05A_2014_p_0014]
FS Date: 7/20/2016

LM Start	0.31	Rating **	U	Issue No.	1375 (cont)
LM End	0.31	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_49967_71469.jpg



Pipe through levee where levee has been degraded.

Photo 2 of 2 : UCIP_FA_2016_49967_71467.jpg



Pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1326
LM End	0.60	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.273945 °	37.273945 °
				-120.815835 °	-120.815835 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39584 DS_ID:19757 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess debris on landward headwall--recommend clearing. FIELD_STRUCT_DESC: 30-inch C.M. stormdrain pipe through the levee, 7.5 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.59). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_FA_2016_39584_60926.jpg



Concrete headwall, pipe, and flapgate on WS toe.

LM Start	0.60	Rating **	M	Issue No.	1326 (cont)
LM End	0.60	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39584_60925.jpg



Concrete headwall, pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	1327
LM End	0.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.273398 °	37.273398 °
				-120.815082 °	-120.815082 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39585 DS_ID:19758 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the levee, 13.2 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. Cobble revetment around both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.65). FS Date: 4/9/2014					

LM Start	0.65	Rating **	M	Issue No.	1327 (cont)
LM End	0.65	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39585_60931.jpg



Concrete headwall visible off WS toe.

Photo 2 of 2 : UCIP_FA_2016_39585_60929.jpg



Pipe, flapgate, and headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	1.66	Rating **	M	Issue No.	80
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263448 °	37.262225 °
				-120.802715 °	-120.802296 °
DWR ID	DWR_NA0010_05_f_2015_80				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee crown within this section.					

Photo 1 of 1 : FA_2016_NA0010_123_80_20161007_00011.jpg



Looking at typical view of rodent holes within this section on landward slope.

LM Start	2.82	Rating **	C	Issue No.	1308
LM End	2.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.256783 °	37.256783 °
				-120.785438 °	-120.785438 °
DWR ID	DWR_NA0010_05_s_2015_1308				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree limbs at landward toe.					

No Photos

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

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	2.84	Rating **	M	Issue No.	1318
LM End	2.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.256810 °	37.256810 °
				-120.785113 °	-120.785113 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33709					
DS_ID:19809					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Log partially blocking inlet at LS toe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 15.0 feet below the crown. Flap gate on the waterward end.					
Concrete "U" headwalls on both ends. (USACE-1967). This entry					
matches the Drainage or Irrigation Structure referenced in O&M manual					
(HLM 2.85).					
FS Date: 4/9/2014					

LM Start	2.84	Rating **	M	Issue No.	1318 (cont)
LM End	2.84	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_33709_60943.jpg



Concrete headwall at outlet on WS toe.

Photo 2 of 2 : UCIP_FA_2016_33709_60941.jpg



Headwall, pipe, and flapgate on WS toe.

* 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	3.20	Rating **	M	Issue No.	7 (cont)	
LM End	3.20	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.256554 °	37.256554 °	
				-120.778847 °	-120.778847 °	
DWR ID	DWR_NA0010_05_f_2012_7					
Comment Code						
RA : Ramp						
Inspector Comment						
Unauthorized ramp on waterside slope.						

Photo 3 of 3 : FA_2016_NA0010_123_7_20161007_00006.jpg



Looking northwest at unauthorized ramp on waterside slope.

LM Start	3.34	Rating **	M	Issue No.	1335
LM End	3.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.255258 °	37.255258 °
				-120.776996 °	-120.776996 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43055 DS_ID:19810 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe corroded through at flapgate on WS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 14.7 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.33). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_FA_2016_43055_60948.jpg



Concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	3.34	Rating **	M	Issue No.	1335 (cont)	
LM End	3.34	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.255258 °	37.255258 °	
				-120.776996 °	-120.776996 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43055						
DS_ID:19810						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe corroded through at flapgate on WS toe.						
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the						
levee, 14.7 feet below the crown. Flap gate on the waterward end.						
Concrete "U" headwalls on both ends. (USACE-1967). This entry						
matches the Drainage or Irrigation Structure referenced in O&M manual						
(HLM 3.33).						
FS Date: 4/15/2014						

Photo 2 of 2 : UCIP_FA_2016_43055_60946.jpg



Flapgate and Concrete headwall at WS toe.

LM Start	3.68	Rating **	M	Issue No.	1328
LM End	3.68	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.252308 °	37.252308 °
				-120.768038 °	-120.768038 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39586 DS_ID:19811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.67). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39586_61137.jpg



Pipe, headwall, and flapgate on WS 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	4.02	Rating **	M	Issue No.	1336 (cont)
LM End	4.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.248432 °	37.248432 °
				-120.764066 °	-120.764066 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39880 DS_ID:19769 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 16.0 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.02). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_FA_2016_39880_61143.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	4.27	Rating **	M	Issue No.	1329
LM End	4.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.246008 °	37.246008 °
				-120.760706 °	-120.760706 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39588 DS_ID:19770 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.6-feet below the crown. Flap gate on the waterward end. Concrete head wall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.27). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39588_61146.jpg



Pipe, headwall, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	4.27	Rating **	M	Issue No.	1329 (cont)
LM End	4.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.246008 °	37.246008 °
				-120.760706 °	-120.760706 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39588 DS_ID:19770 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.6-feet below the crown. Flap gate on the waterward end. Concrete head wall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.27). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_FA_2016_39588_61145.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	4.55	Rating **	M	Issue No.	1330
LM End	4.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243668 °	37.243668 °
				-120.756812 °	-120.756812 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39589 DS_ID:19771 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.54). FS Date: 4/16/2014 8:16:00 AM					

Photo 1 of 2 : UCIP_FA_2016_39589_62081.jpg



Pipe, flapgate, and headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	4.55	Rating **	M	Issue No.	1330 (cont)
LM End	4.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243668 °	37.243668 °
				-120.756812 °	-120.756812 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39589 DS_ID:19771 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.54). FS Date: 4/16/2014 8:16:00 AM					

Photo 2 of 2 : UCIP_FA_2016_39589_62083.jpg



Pipe, flapgate, and headwall on WS toe.

LM Start	4.89	Rating **	M	Issue No.	1331
LM End	4.89	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240978 °	37.240978 °
				-120.751613 °	-120.751613 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39590 DS_ID:19772 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.3-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.89). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39590_62087.jpg



Headwall, flapgate, and pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	4.89	Rating **	M	Issue No.	1331 (cont)
LM End	4.89	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240978 °	37.240978 °
				-120.751613 °	-120.751613 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39590 DS_ID:19772 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.3-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.89). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_FA_2016_39590_62088.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	5.15	Rating **	M	Issue No.	1332
LM End	5.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240607 °	37.240607 °
				-120.746916 °	-120.746916 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39591 DS_ID:19773 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.15). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39591_62091.jpg



Headwall, flapgate, and pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	5.15	Rating **	M	Issue No.	1332 (cont)
LM End	5.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240607 °	37.240607 °
				-120.746916 °	-120.746916 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39591 DS_ID:19773 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.15). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_FA_2016_39591_62093.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	6.52	Rating **	M	Issue No.	15
LM End	6.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.230497 °	37.230497 °
				-120.727263 °	-120.727263 °
DWR ID	DWR_NA0010_05_s_2012_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	6.59	Rating **	M	Issue No.	1309
LM End	6.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.229682 °	37.229682 °
				-120.726305 °	-120.726305 °
DWR ID	DWR_NA0010_05_s_ 2015_1309				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landward slope damage caused by animal foot traffic.					

Photo 1 of 2 : FA_2016_NA0010_123_1309_20161007_00015.jpg



Looking north at damaged landward slope.

LM Start	6.59	Rating **	M	Issue No.	1309 (cont)
LM End	6.59	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_123_1309_20161007_00016.jpg



Looking east at damaged landward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	7.36	Rating **	M	Issue No.	1348
LM End	7.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224560 °	37.224560 °
				-120.714057 °	-120.714057 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39592 DS_ID:19761 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.36). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_39592_62111.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	7.36	Rating **	M	Issue No.	1348 (cont)
LM End	7.36	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39592_62113.jpg



Headwall, flapgate, and pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	7.58	Rating **	M	Issue No.	1315
LM End	7.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.221465 °	37.221465 °
				-120.713780 °	-120.713780 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34170					
DS_ID:19762					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Appears abandoned and if so should be done so properly. Slide gate rusted shut on WS slope. Unable to locate inlet or outlet.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 20.4 feet below the crown. Slide gate in 36-inch C.M. pipe riser unit in waterward slope. Concrete "U" headwalls on each end (not found 2014). (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.58).					
FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_34170_62116.jpg



Likely inlet on LS toe. No pipe or headwall can be seen at current water level.

LM Start	7.58	Rating **	M	Issue No.	1315 (cont)
LM End	7.58	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_34170_62115.jpg



Slide gate in CMP riser on WS slope. No outlet or pipe found on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	8.08	Rating **	M	Issue No.	4
LM End	8.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.213600 °	37.213600 °
				-120.706630 °	-120.706630 °
DWR ID	DWR_NA0010_05_s_2012_4				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	8.46	Rating **	M	Issue No.	1316	
LM End	8.46	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.209606 °	37.209606 °	
				-120.702069 °	-120.702069 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34265						
DS_ID:19763						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe filled with silt on LS toe and should be cleared.						
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee,						
16.0-feet below the crown. Flap gate on the waterward end. Concrete						
headwall on the landward end. Concrete "U" headwalls on the						
waterward end. (USACE-1967). This entry matches the Drainage or						
Irrigation Structure referenced in O&M manual (HLM 8.44).						
FS Date: 4/22/2014						

Photo 1 of 2 : UCIP_FA_2016_34265_62182.jpg



Headwall, flapgate, and pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	1316 (cont)	
LM End	8.46	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.209606 °	37.209606 °	
				-120.702069 °	-120.702069 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34265						
DS_ID:19763						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe filled with silt on LS toe and should be cleared.						
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee,						
16.0-feet below the crown. Flap gate on the waterward end. Concrete						
headwall on the landward end. Concrete "U" headwalls on the						
waterward end. (USACE-1967). This entry matches the Drainage or						
Irrigation Structure referenced in O&M manual (HLM 8.44).						
FS Date: 4/22/2014						

Photo 2 of 2 : UCIP_FA_2016_34265_62183.jpg



Headwall, flapgate, and pipe on WS toe

LM Start	8.85	Rating **	M	Issue No.	5
LM End	8.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.205778 °	37.205778 °
				-120.696843 °	-120.696843 °
DWR ID	DWR_NA0010_05_s_2012_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	10.06	Rating **	M	Issue No.	1317
LM End	10.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.194736 °	37.194736 °
				-120.680116 °	-120.680116 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34273 DS_ID:19767 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slidegate actuator appears bent and may not work properly (WS slope). FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 15.0-feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.05). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_34273_62201.jpg



Slidegate in CMP riser on WS slope.

LM Start	10.06	Rating **	M	Issue No.	1317 (cont)
LM End	10.06	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_34273_62202.jpg



Concrete headwall and pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	12.24	Rating **	C	Issue No.	1
LM End	13.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.177715 °	37.167788 °
				-120.651339 °	-120.629446 °
DWR ID	DWR_NA0010_05_s_2016_1				
Comment Code					
FE : Fence					
Inspector Comment					
T-poles and Electric fence on landward slope and shoulder should be removed.					

No Photos

LM Start	12.89	Rating **	M	Issue No.	1349
LM End	12.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.175816 °	37.175816 °
				-120.640865 °	-120.640865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39593 DS_ID:19707 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.2-feet below the crown. Flap gate on the waterward end. Concrete headwalls on the landward end with flashboards. Concrete saddle and apron on the waterward end with a flapgate. Metal screen at LS toe inlet (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.87). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_39593_62240.jpg



Headwall, flapgate, and pipe on WS 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	13.42	Rating **	M	Issue No.	1320
LM End	13.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.171523 °	37.171523 °
				-120.633442 °	-120.633442 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34288 DS_ID:19708 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion around headwall on the WS toe and there are animal burrows on both slopes. FIELD_STRUCT_DESC: 48-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Flashboard attachment in concrete "U" headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.40). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_34288_62244.jpg



Headwall and pipe on LS toe.

LM Start	13.42	Rating **	M	Issue No.	1320 (cont)
LM End	13.42	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_34288_62243.jpg



Headwall, flapgate, and pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	13.59	Rating **	C	Issue No.	1311
LM End	13.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.169607 °	37.169607 °
				-120.631358 °	-120.631358 °
DWR ID	DWR_NA0010_05_s_2015_1311				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landward slope.					

No Photos

LM Start	13.72	Rating **	M	Issue No.	1324
LM End	13.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.168202 °	37.168202 °
				-120.629886 °	-120.629886 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34824 DS_ID:19709 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible and may need to have silt removed from outlet on WS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 16-feet below the crown. Flap gate on the waterward end. Slidegate on concrete headwall at LS toe. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.72). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_34824_62624.jpg



Slide gate at concrete headwall on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	13.72	Rating **	M	Issue No.	1324 (cont)
LM End	13.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.168202 °	37.168202 °
				-120.629886 °	-120.629886 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34824 DS_ID:19709 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible and may need to have silt removed from outlet on WS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 16-feet below the crown. Flap gate on the waterward end. Slidegate on concrete headwall at LS toe. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.72). FS Date: 4/22/2014					

Photo 2 of 2 : UCIP_FA_2016_34824_62623.jpg



Walkway to gatevalve on LS shoulder.

LM Start	15.11	Rating **	M	Issue No.	1319
LM End	15.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.156805 °	37.156805 °
				-120.609513 °	-120.609513 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34664 DS_ID:19712 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor erosion at headwall on WS toe. FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the levee, 11.9 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.09). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_34664_62454.jpg



Headwall and inlet on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	15.11	Rating **	M	Issue No.	1319 (cont)	
LM End	15.11	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.156805 °	37.156805 °	
				-120.609513 °	-120.609513 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34664						
DS_ID:19712						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Minor erosion at headwall on WS toe.						
FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the						
levee, 11.9 feet below the crown. Flap gate on the waterward end.						
Concrete headwall on both ends. (USACE-1967). This entry matches						
the Drainage or Irrigation Structure referenced in O&M manual (HLM						
15.09).						
FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_FA_2016_34664_62453.jpg



Headwall and inlet on LS toe.

LM Start	15.76	Rating **	M	Issue No.	1350
LM End	15.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.150012 °	37.150012 °
				-120.601330 °	-120.601330 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39595 DS_ID:19713 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. Stormdrain pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.74). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39595_62459.jpg



Headwall, pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	15.76	Rating **	M	Issue No.	1350 (cont)	
LM End	15.76	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.150012 °		37.150012 °
				-120.601330 °		-120.601330 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39595 DS_ID:19713 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. Stormdrain pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.74). FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_FA_2016_39595_62456.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	15.81	Rating **	M	Issue No.	1351
LM End	15.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.149381 °	37.149381 °
				-120.600761 °	-120.600761 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39596 DS_ID:19715 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation at inlet on LS toe should be cleared. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete head wall on the landward end. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.80). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39596_62464.jpg



Headwall, pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	15.81	Rating **	M	Issue No.	1351 (cont)
LM End	15.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.149381 °	37.149381 °
				-120.600761 °	-120.600761 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39596 DS_ID:19715 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation at inlet on LS toe should be cleared. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete head wall on the landward end. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.80). FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_FA_2016_39596_62467.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	16.68	Rating **	M	Issue No.	1321
LM End	16.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.138760 °	37.138760 °
				-120.592393 °	-120.592393 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34725 DS_ID:19716 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe heavily silted on LS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.5-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.67). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_34725_62469.jpg



Headwall, flapgate, and pipe visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	16.68	Rating **	M	Issue No.	1321 (cont)
LM End	16.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.138760 °	37.138760 °
				-120.592393 °	-120.592393 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34725					
DS_ID:19716					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe heavily silted on LS toe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 10.5-feet below the crown. Flap gate on the waterward end.					
Concrete headwall on both ends. (USACE-1967). This entry matches					
the Drainage or Irrigation Structure referenced in O&M manual (HLM					
16.67).					
FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_FA_2016_34725_62471.jpg



Headwall, flapgate, and pipe visible on WS toe.

LM Start	17.22	Rating **	M	Issue No.	1352
LM End	17.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.132211 °	37.132211 °
				-120.587106 °	-120.587106 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39597					
DS_ID:19717					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.20).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39597_62481.jpg



Headwall, flapgate, and pipe visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	17.22	Rating **	M	Issue No.	1352 (cont)	
LM End	17.22	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.132211 °	37.132211 °	
				-120.587106 °	-120.587106 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39597						
DS_ID:19717						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.						
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.20).						
FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_FA_2016_39597_62483.jpg



Headwall, flapgate, and pipe visible on WS toe.

LM Start	17.54	Rating **	M	Issue No.	1353
LM End	17.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.127843 °	37.127843 °
				-120.585245 °	-120.585245 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39599					
DS_ID:19743					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.52).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39599_62485.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	17.54	Rating **	M	Issue No.	1353 (cont)
LM End	17.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.127843 °	37.127843 °
				-120.585245 °	-120.585245 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39599					
DS_ID:19743					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.52).					
FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_FA_2016_39599_62486.jpg



Pipe and headwall visible on LS toe.

LM Start	18.09	Rating **	M	Issue No.	1322
LM End	18.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.120309 °	37.120309 °
				-120.582041 °	-120.582041 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34747					
DS_ID:19745					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Animal burrows in levee on both slopes.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 12.4-feet below the crown. Flap gate on the waterward end.					
Concrete headwall on both ends. (USACE-1967). This entry matches					
the Drainage or Irrigation Structure referenced in O&M manual (HLM					
18.07).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_34747_62494.jpg



Headwall, pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	18.09	Rating **	M	Issue No.	1322 (cont)
LM End	18.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.120309 °	37.120309 °
				-120.582041 °	-120.582041 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34747					
DS_ID:19745					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Animal burrows in levee on both slopes.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 12.4-feet below the crown. Flap gate on the waterward end.					
Concrete headwall on both ends. (USACE-1967). This entry matches					
the Drainage or Irrigation Structure referenced in O&M manual (HLM					
18.07).					
FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_FA_2016_34747_62495.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	18.70	Rating **	M	Issue No.	1354
LM End	18.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.115472 °	37.115472 °
				-120.573628 °	-120.573628 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39600 DS_ID:19746 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.68). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39600_62499.jpg



Headwall, pipe and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	18.70	Rating **	M	Issue No.	1354 (cont)	
LM End	18.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.115472 °	37.115472 °	
				-120.573628 °	-120.573628 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39600						
DS_ID:19746						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.68).						
FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_FA_2016_39600_62498.jpg



Headwall, pipe and flapgate visible on WS toe.

LM Start	19.15	Rating **	M	Issue No.	1355
LM End	19.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.115466 °	37.115466 °
				-120.565467 °	-120.565467 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39601 DS_ID:19747 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.11). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39601_62504.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	19.15	Rating **	M	Issue No.	1355 (cont)
LM End	19.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.115466 °	37.115466 °
				-120.565467 °	-120.565467 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39601 DS_ID:19747 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.11). FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_FA_2016_39601_62506.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	19.48	Rating **	M	Issue No.	1356
LM End	19.48	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113542 °	37.113542 °
				-120.560389 °	-120.560389 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39602 DS_ID:19777 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.46). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39602_62514.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	19.48	Rating **	M	Issue No.	1356 (cont)
LM End	19.48	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113542 °	37.113542 °
				-120.560389 °	-120.560389 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39602 DS_ID:19777 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.46). FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_FA_2016_39602_62516.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	19.51	Rating **	M	Issue No.	1333
LM End	19.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113172 °	37.113172 °
				-120.560014 °	-120.560014 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39345 DS_ID:24868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Markers closer to the levee may be necessary to properly mark pipe crossing location. FIELD_STRUCT_DESC: Gasline of unknown diameter at unknown depth below the crown. CMP riser and gasline marker off LS toe. FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_39345_71477.jpg



Gasline marker 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	19.51	Rating **	M	Issue No.	1333 (cont)
LM End	19.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113172 °	37.113172 °
				-120.560014 °	-120.560014 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39345 DS_ID:24868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Markers closer to the levee may be necessary to properly mark pipe crossing location. FIELD_STRUCT_DESC: Gasline of unknown diameter at unknown depth below the crown. CMP riser and gasline marker off LS toe. FS Date: 4/22/2014					

Photo 2 of 2 : UCIP_FA_2016_39345_71476.jpg



Gasline marker off LS of opposite bank.

LM Start	19.52	Rating **	M	Issue No.	1357
LM End	19.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112953 °	37.112953 °
				-120.559943 °	-120.559943 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39603					
DS_ID:19778					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.50).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39603_62519.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	19.52	Rating **	M	Issue No.	1357 (cont)
LM End	19.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112953 °	37.112953 °
				-120.559943 °	-120.559943 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39603
DS_ID:19778
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.50).
FS Date: 4/23/2014

Photo 2 of 2 : UCIP_FA_2016_39603_62521.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	20.19	Rating **	M	Issue No.	1323
LM End	20.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.106149 °	37.106149 °
				-120.552538 °	-120.552538 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:34759
DS_ID:19782
EP_NO: 13828
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments:
FIELD_STRUCT_DESC: *DELETE* NOT INSTALLED THROUGH THE LEVEE. 24-inch steel irrigation pipe through the levee, 4.0 feet below the crown. Pump missing from pad on the landward side. Steel cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landward shoulder. Pre-existing ditch runs from waterward toe to channel. Pipe extends from pump to the channel. Rock revetment on the cut slopes of the inlet channel. (Permit No. 13828-1988)
FS Date: 4/23/2014

Photo 1 of 1 : UCIP_FA_2016_34759_62537.jpg



Well head visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	20.65	Rating **	M	Issue No.	1358
LM End	20.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.100903 °	37.100903 °
				-120.547282 °	-120.547282 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39605
DS_ID:19784
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 10.5 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.59).
FS Date: 4/23/2014

LM Start	20.65	Rating **	M	Issue No.	1358 (cont)
LM End	20.65	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39605_62544.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39605_62543.jpg



Headwall, pipe, and flapgate visible on WS toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	21.13	Rating **	M	Issue No.	1359
LM End	21.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.095603 °	37.095603 °
				-120.541593 °	-120.541593 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39606
DS_ID:19785
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.8-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.08).
FS Date: 4/23/2014

LM Start	21.13	Rating **	M	Issue No.	1359 (cont)
LM End	21.13	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39606_62549.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39606_62551.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	21.48	Rating **	M	Issue No.	1363
LM End	21.48	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.091755 °	37.091755 °
				-120.537414 °	-120.537414 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39614
DS_ID:19786
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the levee, 12.7-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.42).
FS Date: 4/23/2014

LM Start	21.48	Rating **	M	Issue No.	1363 (cont)
LM End	21.48	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39614_62555.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39614_62556.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	21.91	Rating **	M	Issue No.	1337
LM End	21.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.087525 °	37.087525 °
				-120.532827 °	-120.532827 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39883					
DS_ID:19787					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to					
identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct					
proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 12.4-feet below the crown. Flap gate on the waterward end.					
Concrete headwall on the landward end. Concrete "U" headwall on the					
waterward end. (USACE-1967). This entry matches the Drainage or					
Irrigation Structure referenced in O&M manual (HLM 21.81).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39883_62559.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	21.91	Rating **	M	Issue No.	1337 (cont)
LM End	21.91	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39883_62558.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	21.95	Rating **	M	Issue No.	1360	
LM End	21.95	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.087108 °	37.087108 °	
				-120.532374 °	-120.532374 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39610 DS_ID:19788 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.7-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.85). FS Date: 4/23/2014						

Photo 1 of 2 : UCIP_FA_2016_39610_62586.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	21.95	Rating **	M	Issue No.	1360 (cont)
LM End	21.95	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39610_62588.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	22.28	Rating **	M	Issue No.	1361
LM End	22.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.083410 °	37.083410 °
				-120.528356 °	-120.528356 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39611
DS_ID:19789
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.19).
FS Date: 4/23/2014

LM Start	22.28	Rating **	M	Issue No.	1361 (cont)
LM End	22.28	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39611_62591.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39611_62593.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	22.55	Rating **	M	Issue No.	1362
LM End	22.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.080486 °	37.080486 °
				-120.525180 °	-120.525180 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39613					
DS_ID:19790					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.4-feet below the crown. Flap gate on the waterward end.					
Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.79).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_FA_2016_39613_62596.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	22.55	Rating **	M	Issue No.	1362 (cont)
LM End	22.55	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39613_62598.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	22.89	Rating **	M	Issue No.	1364
LM End	22.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.076830 °	37.076830 °
				-120.521116 °	-120.521116 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39616					
DS_ID:19791					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.94).					
FS Date: 4/23/2014					

LM Start	22.89	Rating **	M	Issue No.	1364 (cont)
LM End	22.89	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39616_62601.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39616_62600.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	23.03	Rating **	M	Issue No.	1365
LM End	23.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.075387 °	37.075387 °
				-120.519406 °	-120.519406 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39617
DS_ID:19792
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.1-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.79).
FS Date: 4/23/2014

LM Start	23.03	Rating **	M	Issue No.	1365 (cont)
LM End	23.03	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39617_62606.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39617_62608.jpg



Headwall, pipe, and flapgate visible on WS toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	23.17	Rating **	M	Issue No.	1366
LM End	23.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.073901 °	37.073901 °
				-120.517651 °	-120.517651 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39618
DS_ID:19793
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Debris blocking closure of outlet. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.5-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end.
FS Date: 4/23/2014

LM Start	23.17	Rating **	M	Issue No.	1366 (cont)
LM End	23.17	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39618_62611.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39618_62610.jpg



Headwall, pipe, and flapgate visible on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	23.72	Rating **	M	Issue No.	1368
LM End	23.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.067799 °	37.067799 °
				-120.511093 °	-120.511093 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39621					
DS_ID:19796					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 30-inch C.M. pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 23.62).					
FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39621_59272.jpg



Concrete headwall on WS toe.

LM Start	23.72	Rating **	M	Issue No.	1368 (cont)
LM End	23.72	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39621_59270.jpg



Flapgate on Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	24.02	Rating **	M	Issue No.	1367
LM End	24.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.064494 °	37.064494 °
				-120.507531 °	-120.507531 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39620 DS_ID:19797 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor sediment/debris buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 23.85). FS Date: 3/25/2014					

LM Start	24.02	Rating **	M	Issue No.	1367 (cont)
LM End	24.02	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39620_59282.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39620_59280.jpg



Flapgate at Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	24.28	Rating **	M	Issue No.	1374
LM End	24.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.061724 °	37.061724 °
				-120.504512 °	-120.504512 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:46850
DS_ID:19798
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 24.18).
FS Date: 3/25/2014

LM Start	24.28	Rating **	M	Issue No.	1374 (cont)
LM End	24.28	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_46850_59287.jpg



Concrete headwall at WS toe.

Photo 2 of 2 : UCIP_FA_2016_46850_59285.jpg



Flapgate at concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	24.56	Rating **	M	Issue No.	1369
LM End	24.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.058673 °	37.058673 °
				-120.501238 °	-120.501238 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39623					
DS_ID:19799					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 24.46).					
FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39623_59292.jpg



Concrete headwall on WS toe.

LM Start	24.56	Rating **	M	Issue No.	1369 (cont)
LM End	24.56	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39623_59290.jpg



Flapgate at Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	24.98	Rating **	M	Issue No.	1334
LM End	24.98	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.054146 °	37.054146 °
				-120.495968 °	-120.495968 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41716 DS_ID:19802 EP_NO: 12873 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Clear soil from siphon breaker and install a protective riser. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 2.0 feet below the crown. Siphon breaker on waterward shoulder. Slant pump at channel on WS toe. Gatevalve on LS toe. Pre-existing ditch runs from waterward toe to channel. Riprap placed around intake. 2-inch PVC electrical conduit at same location (Permit No. 12873-1981) FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_41716_59306.jpg



Slant pump at channel on WS toe.

LM Start	24.98	Rating **	M	Issue No.	1334 (cont)
LM End	24.98	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_41716_59307.jpg



Buried Siphon breaker on WS shoulder.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	25.24	Rating **	M	Issue No.	1312
LM End	25.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.051477 °	37.051477 °
				-120.492650 °	-120.492650 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32789					
DS_ID:19803					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Flapgate propped open during flood season.					
FIELD_STRUCT_DESC: 30-inch C.M. stormdrain pipe through the					
levee, 11.3 feet below the crown. Flap gate on the waterward end.					
Concrete headwall on the landward end. Concrete "U" headwall on the					
waterward end. (USACE-1967). This entry matches the Drainage or					
Irrigation Structure referenced in O&M manual (HLM 25.13).					
FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_32789_59311.jpg



Concrete headwall and flapgate on WS toe.

LM Start	25.24	Rating **	M	Issue No.	1312 (cont)
LM End	25.24	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_32789_59312.jpg



Concrete headwall and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	25.59	Rating **	M	Issue No.	9
LM End	25.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.047630 °	37.047042 °
				-120.488530 °	-120.488092 °
DWR ID	DWR_NA0010_05_s_2012_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	25.61	Rating **	M	Issue No.	1370
LM End	25.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.047455 °	37.047455 °
				-120.488443 °	-120.488443 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39625 DS_ID:19804 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. pipe through the levee, 12.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.51). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39625_59316.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	25.61	Rating **	M	Issue No.	1370 (cont)	
LM End	25.61	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.047455 °	37.047455 °	
				-120.488443 °	-120.488443 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39625 DS_ID:19804 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. pipe through the levee, 12.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.51). FS Date: 3/25/2014						

Photo 2 of 2 : UCIP_FA_2016_39625_59317.jpg



Flapgate on concrete headwall at WS toe.

LM Start	25.63	Rating **	M	Issue No.	1371
LM End	25.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.047170 °	37.047170 °
				-120.488222 °	-120.488222 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39626 DS_ID:19805 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. stormdrain pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.53). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39626_59321.jpg



Flapgate on headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	25.63	Rating **	M	Issue No.	1371 (cont)
LM End	25.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.047170 °	37.047170 °
				-120.488222 °	-120.488222 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39626 DS_ID:19805 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. stormdrain pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.53). FS Date: 3/25/2014					

Photo 2 of 2 : UCIP_FA_2016_39626_59320.jpg



Concrete headwall on LS toe.

LM Start	26.20	Rating **	M	Issue No.	1372
LM End	26.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.040070 °	37.040070 °
				-120.482796 °	-120.482796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39627					
DS_ID:19806					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.11).					
FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39627_59341.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	26.20	Rating **	M	Issue No.	1372 (cont)
LM End	26.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.040070 °	37.040070 °
				-120.482796 °	-120.482796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39627 DS_ID:19806 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.11). FS Date: 3/25/2014					

Photo 2 of 2 : UCIP_FA_2016_39627_59340.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	26.95	Rating **	M	Issue No.	1373
LM End	26.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.032669 °	37.032669 °
				-120.473901 °	-120.473901 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39628 DS_ID:19808 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe has heavy silt buildup visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.4 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.85). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_39628_59350.jpg



Concrete headwall on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	26.95	Rating **	M	Issue No.	1373 (cont)
LM End	26.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.032669 °	37.032669 °
				-120.473901 °	-120.473901 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39628 DS_ID:19808 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe has heavy silt buildup visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.4 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.85). FS Date: 3/25/2014					

Photo 2 of 2 : UCIP_FA_2016_39628_59349.jpg



Concrete headwall on LS toe.

LM Start	26.97	Rating **	M	Issue No.	1313
LM End	26.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.032680 °	37.032680 °
				-120.473454 °	-120.473454 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32806 DS_ID:19748 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Tumble weed buildup at inlet mat create blockage and should be removed. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.87). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_32806_59353.jpg



Concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	26.97	Rating **	M	Issue No.	1313 (cont)	
LM End	26.97	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.032680 °		37.032680 °
				-120.473454 °		-120.473454 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32806 DS_ID:19748 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Tumble weed buildup at inlet mat create blockage and should be removed. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.87). FS Date: 3/25/2014						

Photo 2 of 2 : UCIP_FA_2016_32806_59355.jpg



Flapgate and Concrete headwall at WS toe.

LM Start	28.27	Rating **	M	Issue No.	1314
LM End	28.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.032623 °	37.032623 °
				-120.450108 °	-120.450108 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32823 DS_ID:19750 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal Burrowing activity at LS toe may undermine headwall. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.8 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 28.17). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_FA_2016_32823_59382.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	28.27	Rating **	M	Issue No.	1314 (cont)
LM End	28.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.032623 °	37.032623 °
				-120.450108 °	-120.450108 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32823 DS_ID:19750 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal Burrowing activity at LS toe may undermine headwall. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.8 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 28.17). FS Date: 3/25/2014					

Photo 2 of 2 : UCIP_FA_2016_32823_59383.jpg



Flapgate on Concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	29.05	Rating **	M	Issue No.	1376
LM End	29.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.028295 °	37.028295 °
				-120.439275 °	-120.439275 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50055
DS_ID:19752
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/20/2016 same as previous inspection. Crossing has been downgraded from Urgent to Non-Urgent slide gate is on LS. Pipe is buried through WS. Need to coordinate with owner to determine permit used to authorized sleeved pipe. (DWR UCIP - omagana)3/27/2014 Slide gate will not close due to 24-inch PVC pipe sleeved through pipe. Also slide gate rails rusted beyond use. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: [Rodunder Siphon Structure] 48-inch concrete irrigation siphon pipe through the levee, 12.1 feet below the crown. Concrete "U" headwall on inlet structure located on the landside (LS) end. Slide gate mounted on concrete headwall located on the LS. 36-inch corrugated metal pipe (CMP) riser unit with slide gate, 8 feet upstream from siphon, located on the LS. 24-inch pipe from this unit enters siphon behind inlet structure. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 28.95), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969]
FS Date: 7/20/2016

LM Start	29.05	Rating **	M	Issue No.	1376 (cont)
LM End	29.05	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50055_59410.jpg



Slide gate mounted to concrete headwall on LS toe.

Photo 2 of 2 : UCIP_FA_2016_50055_59409.jpg



24-inch PVC pipe sleeved through 48-inch concrete pipe.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	29.58	Rating **	M	Issue No.	1338
LM End	29.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.021497 °	37.021497 °
				-120.434602 °	-120.434602 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39884
DS_ID:19753
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.
FIELD_STRUCT_DESC: 36-inch C.M. pipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 29.49).
FS Date: 3/27/2014

LM Start	29.58	Rating **	M	Issue No.	1338 (cont)
LM End	29.58	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39884_59414.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39884_59413.jpg



Flapgate on Concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	29.68	Rating **	M	Issue No.	171
LM End	29.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.020272 °	37.018712 °
				-120.433737 °	-120.432682 °
DWR ID	DWR_NA0010_05_s_ 2014_171				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Waterside erosion caused by livestock.					

LM Start	29.68	Rating **	M	Issue No.	171 (cont)
LM End	29.80	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2016_NA0010_123_171_20161024_00208.jpg



Looking south at animal erosion on waterward slope.

Photo 2 of 2 : FA_2016_NA0010_123_171_20161024_00209.jpg



Looking north at animal erosion on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	29.82	Rating **	M	Issue No.	1339
LM End	29.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.018505 °	37.018505 °
				-120.432544 °	-120.432544 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39631
DS_ID:19754
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 12.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 29.72).
FS Date: 3/27/2014

LM Start	29.82	Rating **	M	Issue No.	1339 (cont)
LM End	29.82	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39631_59424.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39631_59426.jpg



Flapgate on Concrete headwall at WS toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	29.89	Rating **	M	Issue No.	16
LM End	29.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.017540 °	37.017540 °
				-120.431955 °	-120.431955 °
DWR ID	DWR_NA0010_05_s_2012_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	30.14	Rating **	M	Issue No.	1340
LM End	30.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.014471 °	37.014471 °
				-120.429759 °	-120.429759 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39632					
DS_ID:19696					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch square stormdrain R.C.B.C. through the levee, 13.1 feet below the crown. Concrete "U", headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.04).					
FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_FA_2016_39632_59430.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	30.14	Rating **	M	Issue No.	1340 (cont)	
LM End	30.14	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.014471 °	37.014471 °	
				-120.429759 °	-120.429759 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39632						
DS_ID:19696						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square stormdrain R.C.B.C. through the levee, 13.1 feet below the crown. Concrete "U", headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.04).						
FS Date: 3/27/2014						

Photo 2 of 2 : UCIP_FA_2016_39632_59431.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	31.06	Rating **	M	Issue No.	1341	
LM End	31.06	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.004212 °		37.004212 °
				-120.419178 °		-120.419178 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39633						
DS_ID:19697						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Some debris buildup at LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through the levee, 13.3 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.96).						
FS Date: 3/27/2014						

Photo 1 of 2 : UCIP_FA_2016_39633_59435.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	31.06	Rating **	M	Issue No.	1341 (cont)	
LM End	31.06	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.004212 °	37.004212 °	
				-120.419178 °	-120.419178 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39633						
DS_ID:19697						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Some debris buildup at LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through the levee, 13.3 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.96).						
FS Date: 3/27/2014						

Photo 2 of 2 : UCIP_FA_2016_39633_59436.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	31.30	Rating **	M	Issue No.	1342
LM End	31.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.001754 °	37.001754 °
				-120.416254 °	-120.416254 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39643					
DS_ID:19698					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Excess vegetation buildup at inlet on LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through levee, 13.4 feet below crown. Concrete "U" headwall on waterward end. Flap gate on waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.19).					
FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_FA_2016_39643_59439.jpg



Concrete headwall on WS toe.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	31.30	Rating **	M	Issue No.	1342 (cont)	
LM End	31.30	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.001754 °	37.001754 °	
				-120.416254 °	-120.416254 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39643 DS_ID:19698 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation buildup at inlet on LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through levee, 13.4 feet below crown. Concrete "U" headwall on waterward end. Flap gate on waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.19). FS Date: 3/27/2014						

Photo 2 of 2 : UCIP_FA_2016_39643_59440.jpg



Flapgate at concrete headwall on WS toe.

LM Start	31.80	Rating **	M	Issue No.	1343
LM End	31.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995029 °	36.995029 °
				-120.408914 °	-120.408914 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39645 DS_ID:19700 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.71). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39645_59686.jpg



Concrete headwall at channel on WS toe.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	31.80	Rating **	M	Issue No.	1343 (cont)
LM End	31.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995029 °	36.995029 °
				-120.408914 °	-120.408914 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39645					
DS_ID:19700					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.71).					
FS Date: 4/1/2014					

Photo 2 of 2 : UCIP_FA_2016_39645_59687.jpg



Flapgate on Concrete headwall at channel on WS toe.

LM Start	32.32	Rating **	M	Issue No.	1344
LM End	32.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.989435 °	36.989435 °
				-120.402626 °	-120.402626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39646 DS_ID:19701 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some silt buildup inside culvert. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 14.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 32.22). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39646_59690.jpg



Concrete headwall at inlet on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	32.32	Rating **	M	Issue No.	1344 (cont)
LM End	32.32	Issue Type +	En	Location *	LS
Category	Supplemental	GPS Latitude/Longitude			
		Start	End		
Item	DWR UCIP Field Study	36.989435 °	36.989435 °		
		-120.402626 °	-120.402626 °		
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39646 DS_ID:19701 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some silt buildup inside culvert. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 14.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 32.22). FS Date: 4/1/2014					

Photo 2 of 2 : UCIP_FA_2016_39646_59688.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	33.11	Rating **	M	Issue No.	1345
LM End	33.11	Issue Type +	En	Location *	LS
Category	Supplemental	GPS Latitude/Longitude			
		Start	End		
Item	DWR UCIP Field Study	36.980861 °	36.980861 °		
		-120.393116 °	-120.393116 °		
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39647 DS_ID:19702 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Debris buildup blocking landward headwall--recommend contacting owner to clear debris. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 12.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.01). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39647_59697.jpg



Concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	33.11	Rating **	M	Issue No.	1345 (cont)
LM End	33.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.980861 °	36.980861 °
				-120.393116 °	-120.393116 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39647 DS_ID:19702 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Debris buildup blocking landward headwall--recommend contacting owner to clear debris. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 12.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.01). FS Date: 4/1/2014					

Photo 2 of 2 : UCIP_FA_2016_39647_59699.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	33.81	Rating **	M	Issue No.	1346
LM End	33.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.976808 °	36.976808 °
				-120.382593 °	-120.382593 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39648					
DS_ID:19703					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.9 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.72).					
FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39648_59701.jpg



Concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	33.81	Rating **	M	Issue No.	1346 (cont)	
LM End	33.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.976808 °		36.976808 °
				-120.382593 °		-120.382593 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39648 DS_ID:19703 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.9 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.72). FS Date: 4/1/2014						

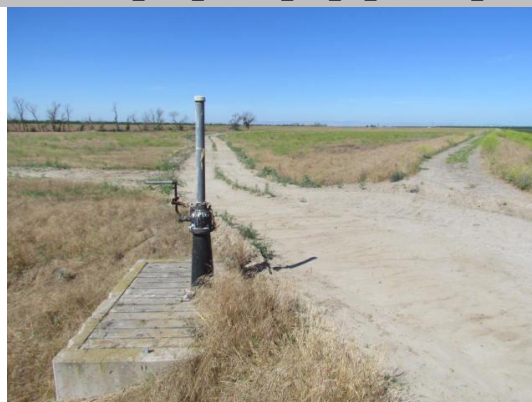
Photo 2 of 2 : UCIP_FA_2016_39648_59700.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	34.61	Rating **	M	Issue No.	11
LM End	34.61	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.978555 °	36.978555 °
				-120.368467 °	-120.368467 °
DWR ID	DWR_NA0010_05_s_2012_11				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on waterside slope. Landowner cut unauthorized ramp on waterside slope and levee crown.					

Photo 1 of 4 : FA_2016_NA0010_123_11_20161007_00007.jpg



Looking west at ramp on waterward slope.

* 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	34.61	Rating **	M	Issue No.	1347
LM End	34.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.978593 °	36.978593 °
				-120.368511 °	-120.368511 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39649
DS_ID:19755
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Debris buildup visible on waterward headwall--recommend contacting owner to clear pipe.
FIELD_STRUCT_DESC: 36-inch square R.C.B.C. through the levee, 9.7 feet below the crown. Slide gate in 56"X91" concrete riser unit on the waterward slope. Concrete "U" headwalls on both ends. Landside channel cobble revetted for 8.0 feet. (USACE-1967). [Chowchilla Canal Irrigation Structure] This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 34.51).
FS Date: 4/1/2014

LM Start	34.61	Rating **	M	Issue No.	1347 (cont)
LM End	34.61	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39649_59706.jpg



Slide gate in concrete riser on WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_39649_59704.jpg



Concrete headwall at 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 06 East Side Bypass			Left	36.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/18/2016 - 5/19/2016		10/19/2016 - 10/20/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	1239
LM End	0.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.271444 °	37.271444 °
				-120.815835 °	-120.815835 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39463 DS_ID:19815 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup on landward side. Recommend removing sediment buildup on landward toe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 7.2 feet below crown. Slide gate inside 36-inch CM pipe riser in the waterward slope. Pump on concrete structure in channel. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.74). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39463_66341.jpg



View of waterward side.

LM Start	0.66	Rating **	M	Issue No.	1239 (cont)
LM End	0.66	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39463_66343.jpg



View of slope 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	1228
LM End	0.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.270460 °	37.270460 °
				-120.814290 °	-120.814290 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36565 DS_ID:19816 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Landward side blocked--need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 16.2 feet below crown. Flap gate on the waterward end. Concrete "U" headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.86). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36565_66346.jpg



Overview of waterward side.

LM Start	0.78	Rating **	M	Issue No.	1228 (cont)
LM End	0.78	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36565_66345.jpg



Concrete structure located on waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	1.84	Rating **	M	Issue No.	125
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259527 °	37.259527 °
				-120.803300 °	-120.803300 °
DWR ID	DWR_NA0010_06_s_2012_125				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.87	Rating **	M	Issue No.	1229
LM End	1.87	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.259312 °	37.259312 °
				-120.802863 °	-120.802863 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36566					
DS_ID:19817					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No access was available to landward side due to fence. Recommend removing some of the vegetation on waterward toe.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 13.5 feet below crown. Flap gate on the waterward end. Concrete headwall at both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.95).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36566_66348.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	1.87	Rating **	M	Issue No.	1229 (cont)	
LM End	1.87	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.259312 °	37.259312 °	
				-120.802863 °	-120.802863 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36566						
DS_ID:19817						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No access was available to landward side due to fence. Recommend removing some of the vegetation on waterward toe.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 13.5 feet below crown. Flap gate on the waterward end. Concrete headwall at both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.95).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_36566_66350.jpg



View of waterward side.

LM Start	2.53	Rating **	M	Issue No.	1240
LM End	2.53	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.252948 °	37.252948 °
				-120.794352 °	-120.794352 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39464 DS_ID:19818 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 6.9 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.61). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39464_66354.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	2.53	Rating **	M	Issue No.	1240 (cont)	
LM End	2.53	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.252948 °		37.252948 °
				-120.794352 °		-120.794352 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39464 DS_ID:19818 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 6.9 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.61). FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39464_66357.jpg



View of waterward side.

LM Start	2.53	Rating **	M	Issue No.	76
LM End	2.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.252935 °	37.252935 °
				-120.794349 °	-120.794349 °
DWR ID	DWR_NA0010_06_f_2016_76				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	1230
LM End	2.57	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.252743 °	37.252743 °
				-120.793756 °	-120.793756 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36568 DS_ID:19819 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 9.2 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.65). FS Date: 4/18/2014					

LM Start	2.57	Rating **	M	Issue No.	1230 (cont)
LM End	2.57	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36568_66362.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_36568_66360.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	2.77	Rating **	M	Issue No.	1231
LM End	2.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.253020 °	37.253020 °
				-120.790219 °	-120.790219 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36569 DS_ID:19820 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.5 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.85). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36569_66369.jpg



View of waterward side.

LM Start	2.77	Rating **	M	Issue No.	1231 (cont)
LM End	2.77	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36569_66368.jpg



Overview of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	3.01	Rating **	M	Issue No.	1232
LM End	3.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.253811 °	37.253811 °
				-120.786059 °	-120.786059 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36583 DS_ID:19821 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24 inch CM pipe through levee, 11.2 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.09). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36583_66381.jpg



View of waterward side.

LM Start	3.01	Rating **	M	Issue No.	1232 (cont)
LM End	3.01	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36583_66380.jpg



Flap gate and concrete headwall visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	3.21	Rating **	M	Issue No.	1233
LM End	3.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.253513 °	37.253513 °
				-120.782509 °	-120.782509 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36584 DS_ID:19822 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on waterward slope and landward toe (headwall blocked by dense vegetation). Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.4 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.29). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36584_66384.jpg



Overview of levee crown and landward side.

LM Start	3.21	Rating **	M	Issue No.	1233 (cont)
LM End	3.21	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36584_66386.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	3.38	Rating **	M	Issue No.	1234
LM End	3.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.252152 °	37.252152 °
				-120.779969 °	-120.779969 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36585 DS_ID:19823 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Alignment of crossing unknown--altered crossing. No headwall found on landward side only siphon breaker found a short distance from landward toe. Tall grass observed on waterward slope and some burrow activity also noticed. Need to contact owner to determine alignment of crossing and status of crossing. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 15.7 feet below crown. Flap gate on the waterward end. Concrete "U" headwall on both ends. BM stamped 9770-152 on top of the headwall on the waterward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.43). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36585_66389.jpg



Overview of levee crown at crossing.

LM Start	3.38	Rating **	M	Issue No.	1234 (cont)
LM End	3.38	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36585_66390.jpg



Flap gate and concrete headwall visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	3.42	Rating **	M	Issue No.	1215	
LM End	3.42	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.251902 °	37.251902 °	
				-120.779391 °	-120.779391 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39482 DS_ID:19824 EP_NO: 6965 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Description of structure does not match. Need to contact owner. Current description includes concrete platform, trash screen, and gage reading on waterward side. Metal box located on waterward shoulder. Large plant facility locate on landward side. FIELD_STRUCT_DESC: 16-inch steel discharge pipe through levee, 7.4 feet below crown. CM cutoff wall around pipe in center of levee. Siphon breaker on apex of pipe on landward levee shoulder. Pump on waterward side, with timber platform on waterward berm for support. Pipe exposed on both slopes. (Permit No. 6965-1971) FS Date: 4/10/2014						

Photo 1 of 2 : UCIP_FA_2016_39482_71643.jpg



View of structure located on waterward side.

LM Start	3.42	Rating **	M	Issue No.	1215 (cont)
LM End	3.42	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39482_71644.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	3.47	Rating **	M	Issue No.	1246
LM End	3.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.251687 °	37.251687 °
				-120.778534 °	-120.778534 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39465
DS_ID:19825
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Sediment buildup inside pipe visible from landward side. Excess soil is also present on landward toe partially blocking concrete headwall and inlet. Recommend removing soil from landward toe and clear buildup inside.
FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 6.8 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope. Concrete headwall on both ends. Pipe connects to 30-inch steel drainpipe on waterward side. Drainpipe extends to pump on waterward side, on support platform in channel. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.54). Extension drainpipe and pump installed under Permit No. 12527 (1980).
FS Date: 4/18/2014

LM Start	3.47	Rating **	M	Issue No.	1246 (cont)
LM End	3.47	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39465_66394.jpg



View of waterward side--cmp riser and concrete headwall visible.

Photo 2 of 2 : UCIP_FA_2016_39465_66395.jpg



Inside view of cmp riser located on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	3.69	Rating **	M	Issue No.	1247
LM End	3.69	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.251199 °	37.251199 °
				-120.774474 °	-120.774474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39466 DS_ID:19826 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup inside crossing and is visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 7.0 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.77). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39466_66413.jpg



View of waterward side.

LM Start	3.69	Rating **	M	Issue No.	1247 (cont)
LM End	3.69	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39466_66412.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	3.89	Rating **	M	Issue No.	1248
LM End	3.89	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.250742 °	37.250742 °
				-120.771026 °	-120.771026 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39467 DS_ID:19827 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup inside crossing and is visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 6.7 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.97). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39467_66407.jpg



View of waterward side.

LM Start	3.89	Rating **	M	Issue No.	1248 (cont)
LM End	3.89	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39467_66406.jpg



Slide gate inside CMP riser visible on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.09	Rating **	M	Issue No.	1235
LM End	4.09	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.248353 °	37.248353 °
				-120.768922 °	-120.768922 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36606 DS_ID:19828 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.17). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36606_66418.jpg



View of waterward side.

LM Start	4.09	Rating **	M	Issue No.	1235 (cont)
LM End	4.09	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36606_66417.jpg



Overview of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.33	Rating **	M	Issue No.	1236
LM End	4.33	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.246459 °	37.246459 °
				-120.765470 °	-120.765470 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36607 DS_ID:19829 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.3 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.41). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36607_66422.jpg



View of waterward side--concrete headwall and flap gate visible.

LM Start	4.33	Rating **	M	Issue No.	1236 (cont)
LM End	4.33	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_36607_66421.jpg



View of landward side--concrete headwall visible through dense vegetation.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.61	Rating **	A/W	Issue No.	16
LM End	4.61	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.244012 °	37.244012 °
				-120.761372 °	-120.761372 °
DWR ID	DWR_NA0010_06_s_2012_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee crown.					

No Photos

LM Start	4.62	Rating **	U	Issue No.	71
LM End	4.62	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.243951 °	37.243951 °
				-120.761313 °	-120.761313 °
DWR ID	DWR_NA0010_06_f_2015_71				
Comment Code					
PI : Pipe					
Inspector Comment					
Landowner constructed dyke need drainage pipe.					

Photo 1 of 3 : FA_2016_NA0010_124_71_20161007_00027.jpg



Looking at dyke around drainage pipe at landward toe.

LM Start	4.62	Rating **	U	Issue No.	71 (cont)
LM End	4.62	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2016_NA0010_124_71_20161007_00028.jpg



Looking south at dyke around drainage pipe at landward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.62	Rating **	U	Issue No.	71 (cont)	
LM End	4.62	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.243951 °		37.243951 °
				-120.761313 °		-120.761313 °
DWR ID	DWR_NA0010_06_f_2015_71					
Comment Code						
PI : Pipe						
Inspector Comment						
Landowner constructed dyke need drainage pipe.						

Photo 3 of 3 : FA_2016_NA0010_124_71_20161007_00029.jpg



Looking south at dyke around drainage pipe at landward toe.

LM Start	4.62	Rating **	M	Issue No.	1249
LM End	4.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243946 °	37.243946 °
				-120.761296 °	-120.761296 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39468 DS_ID:19830 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup inside crossing visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 6.9 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope. Concrete headwall on the landward end. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.70). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39468_66425.jpg



Overview of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.62	Rating **	M	Issue No.	1249 (cont)	
LM End	4.62	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.243946 °	37.243946 °	
				-120.761296 °	-120.761296 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39468						
DS_ID:19830						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup inside crossing visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition.						
FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 6.9 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope.						
Concrete headwall on the landward end. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.70).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39468_66426.jpg



Inside view of CMP riser located on waterward.

LM Start	4.66	Rating **	M	Issue No.	10
LM End	4.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.243540 °	37.243540 °
				-120.760782 °	-120.760782 °
DWR ID	DWR_NA0010_06_s_2012_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes next to fence post on landward slope.					

Photo 1 of 2 : FA_2016_NA0010_124_10_20161007_00016.jpg



Looking at rodent hole along fence line on landward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.66	Rating **	M	Issue No.	10 (cont)	
LM End	4.66	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.243540 °		37.243540 °
				-120.760782 °		-120.760782 °
DWR ID	DWR_NA0010_06_s_2012_10					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Rodent holes next to fence post on landward slope.						

Photo 2 of 2 : FA_2016_NA0010_124_10_20161007_00017.jpg



Looking at typical rodent holes on landward slope.

LM Start	4.67	Rating **	M	Issue No.	1237
LM End	4.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243408 °	37.243408 °
				-120.760564 °	-120.760564 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36609 DS_ID:19831 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend removing tall grass on landward toe to determine condition of crossing from landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.75). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36609_66433.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.67	Rating **	M	Issue No.	1237 (cont)
LM End	4.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243408 °	37.243408 °
				-120.760564 °	-120.760564 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36609 DS_ID:19831 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend removing tall grass on landward toe to determine condition of crossing from landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.75). FS Date: 4/18/2014					

Photo 2 of 2 : UCIP_FA_2016_36609_66432.jpg



Flap gate, concrete headwall and apron visible on waterward toe.

LM Start	4.86	Rating **	M	Issue No.	1238
LM End	4.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.242024 °	37.242024 °
				-120.757602 °	-120.757602 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36610					
DS_ID:19862					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.					
Recommend removing vegetation along waterward slope to conduct proper inspection of structure. Also recommend removing dense vegetation blocking landward headwall.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.94).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36610_66436.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	4.86	Rating **	M	Issue No.	1238 (cont)	
LM End	4.86	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.242024 °	37.242024 °	
				-120.757602 °	-120.757602 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36610						
DS_ID:19862						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.						
Recommend removing vegetation along waterward slope to conduct proper inspection of structure. Also recommend removing dense vegetation blocking landward headwall.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.94).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_36610_66438.jpg



View of flap gate, concrete headwall and apron located on waterward side.

LM Start	5.26	Rating **	M	Issue No.	1250	
LM End	5.26	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.239098 °	37.239098 °	
				-120.751774 °	-120.751774 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39875						
DS_ID:19863						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Clear vegetation from waterward slope and landward headwall.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.9 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.34).						
FS Date: 4/18/2014						

Photo 1 of 2 : UCIP_FA_2016_39875_61599.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	5.26	Rating **	M	Issue No.	1250 (cont)	
LM End	5.26	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.239098 °	37.239098 °	
				-120.751774 °	-120.751774 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39875						
DS_ID:19863						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Clear vegetation from waterward slope and landward headwall.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.9 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.34).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39875_61598.jpg



Overview of levee crown at crossing.

LM Start	5.55	Rating **	M	Issue No.	1241
LM End	5.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.238610 °	37.238610 °
				-120.746591 °	-120.746591 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36611					
DS_ID:19864					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also recommend removing excess vegetation at landward headwall.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.0 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.63).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36611_66441.jpg



Concrete headwall and flap gate visible on waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	5.55	Rating **	M	Issue No.	1241 (cont)	
LM End	5.55	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.238610 °	37.238610 °	
				-120.746591 °	-120.746591 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36611						
DS_ID:19864						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also recommend removing excess vegetation at landward headwall.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.0 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.63).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_36611_66440.jpg



View of waterward side--dense vegetation covers slope.

LM Start	5.93	Rating **	U	Issue No.	69
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.236936 °	37.235487 °
				-120.740384 °	-120.737685 °
DWR ID	DWR_NA0010_06_f_2015_69				
Comment Code					
PO : Pole					
Inspector Comment					
Several PG& E poles within this section at the landward toe and slope.					

Photo 1 of 2 : FA_2016_NA0010_124_69_20161007_00020.jpg



Looking at power pole on landward slope.

* 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**

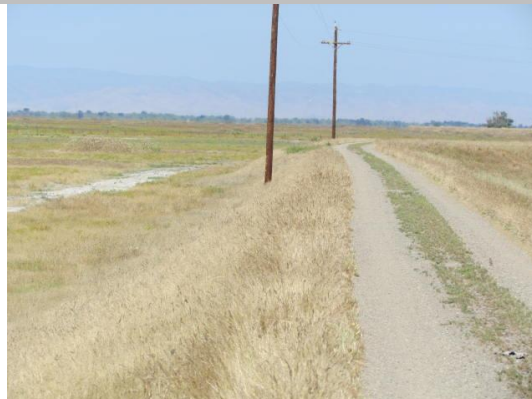
Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	5.93	Rating **	U	Issue No.	69 (cont)	
LM End	6.25	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.236936 °		37.235487 °
				-120.740384 °		-120.737685 °
DWR ID	DWR_NA0010_06_f_2015_69					
Comment Code						
PO : Pole						
Inspector Comment						
Several PG& E poles within this section at the landward toe and slope.						

Photo 2 of 2 : FA_2016_NA0010_124_69_20161007_00021.jpg



Looking west at several PG&E poles on landward slope.

LM Start	5.98	Rating **	C	Issue No.	1
LM End	5.98	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.236386 °	37.236386 °
				-120.739706 °	-120.739706 °
DWR ID	DWR_NA0010_06_s_2016_1				
Comment Code					
Inspector Comment					
Erosion is undermining the headwall on both sides of the drainage structure.					

No Photos

LM Start	5.98	Rating **	U	Issue No.	70
LM End	5.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.236382 °	37.236382 °
				-120.739709 °	-120.739709 °
DWR ID	DWR_NA0010_06_f_2015_70				
Comment Code					
PI : Pipe					
Inspector Comment					
Pipe from well at 15ft line with dyke around pipe to close to landward toe.					

Photo 1 of 5 : FA_2016_NA0010_124_70_20161007_00022.jpg



Looking south at dyke connected to drainage structure at landward toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	5.98	Rating **	U	Issue No.	70 (cont)	
LM End	5.98	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.236382 °	37.236382 °	
				-120.739709 °	-120.739709 °	
DWR ID	DWR_NA0010_06_f_2015_70					
Comment Code						
PI : Pipe						
Inspector Comment						
Pipe from well at 15ft line with dyke around pipe to close to landward toe.						

LM Start	5.98	Rating **	U	Issue No.	70 (cont)
LM End	5.98	Issue Type +	En	Location *	LS

Photo 2 of 5 : FA_2016_NA0010_124_70_20161007_00023.jpg



Looking southwest at dyke connected to drainage structure at landward toe.

Photo 3 of 5 : FA_2016_NA0010_124_70_20161007_00024.jpg



Looking west at dyke connected to drainage structure at landward toe.

LM Start	5.98	Rating **	U	Issue No.	70 (cont)
LM End	5.98	Issue Type +	En	Location *	LS

Photo 4 of 5 : FA_2016_NA0010_124_70_20161007_00025.jpg



Looking northwest at dyke connected to drainage structure at landward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	5.98	Rating **	U	Issue No.	70 (cont)	
LM End	5.98	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.236382 °	37.236382 °	
				-120.739709 °	-120.739709 °	
DWR ID	DWR_NA0010_06_f_2015_70					
Comment Code						
PI : Pipe						
Inspector Comment						
Pipe from well at 15ft line with dyke around pipe to close to landward toe.						

Photo 5 of 5 : FA_2016_NA0010_124_70_20161007_00026.jpg



Looking north at dyke connected to drainage structure at landward toe.

LM Start	6.06	Rating **	M	Issue No.	22
LM End	6.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.235777 °	37.235777 °
				-120.738598 °	-120.738598 °
DWR ID	DWR_NA0010_06_s_2012_22				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.09	Rating **	M	Issue No.	21
LM End	6.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.235623 °	37.235623 °
				-120.738017 °	-120.738017 °
DWR ID	DWR_NA0010_06_s_2012_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	7.10	Rating **	M	Issue No.	7
LM End	7.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.226675 °	37.226675 °
				-120.724498 °	-120.724498 °
DWR ID	DWR_NA0010_06_s_2012_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.21	Rating **	M	Issue No.	1219
LM End	7.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.226102 °	37.226102 °
				-120.722739 °	-120.722739 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39471					
DS_ID:19868					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Clear animal from waterward side. Some sediment buildup in pipe visible landward side--recommend clearing.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.6 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.29).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39471_61650.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	7.21	Rating **	M	Issue No.	1219 (cont)
LM End	7.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.226102 °	37.226102 °
				-120.722739 °	-120.722739 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39471 DS_ID:19868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Clear animal from waterward side. Some sediment buildup in pipe visible landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.6 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.29). FS Date: 4/18/2014					

Photo 2 of 2 : UCIP_FA_2016_39471_61649.jpg



Concrete headwall and flap gate visible on waterward side. Dead animal inside pipe.

LM Start	7.66	Rating **	M	Issue No.	1220
LM End	7.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.222743 °	37.222743 °
				-120.716416 °	-120.716416 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39472 DS_ID:19869 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.74). Skewed crossing FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39472_66462.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	7.66	Rating **	M	Issue No.	1220 (cont)
LM End	7.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.222743 °	37.222743 °
				-120.716416 °	-120.716416 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39472 DS_ID:19869 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.74). Skewed crossing FS Date: 4/18/2014					

Photo 2 of 2 : UCIP_FA_2016_39472_66461.jpg



Pipe crosses levee at an angle.

LM Start	8.13	Rating **	M	Issue No.	1221
LM End	8.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.216547 °	37.216547 °
				-120.713000 °	-120.713000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39473 DS_ID:19870 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe--recommend contacting owner to clear sediment. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 16.5 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.21). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39473_61674.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	8.13	Rating **	M	Issue No.	1221 (cont)	
LM End	8.13	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.216547 °	37.216547 °	
				-120.713000 °	-120.713000 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39473						
DS_ID:19870						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe--recommend contacting owner to clear sediment.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 16.5 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.21).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39473_61673.jpg



Pipe crosses levee at an angle.

LM Start	8.43	Rating **	M	Issue No.	1222
LM End	8.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.213288 °	37.213288 °
				-120.709503 °	-120.709503 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39474					
DS_ID:19871					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side--recommend clearing. Good candidate for pressure test or video inspection due to signs of heavy corrosion. If no leaks after tests this crossing would be a good candidate for rehabilitation.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 9.2 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.51).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39474_61685.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	8.43	Rating **	M	Issue No.	1222 (cont)	
LM End	8.43	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.213288 °	37.213288 °	
				-120.709503 °	-120.709503 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39474						
DS_ID:19871						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side--recommend clearing. Good candidate for pressure test or video inspection due to signs of heavy corrosion. If no leaks after tests this crossing would be a good candidate for rehabilitation.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 9.2 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.51).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39474_61684.jpg



View of landward side.

LM Start	9.52	Rating **	M	Issue No.	1255
LM End	9.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202481 °	37.202481 °
				-120.695303 °	-120.695303 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42525 DS_ID:19872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 12/5/14 Accidently missed updating record. Photos have been added and coordinates have been updated. Unable to confirm if crossing is the same cable line originally identified in desk study at levee mile 6.43. Recommend contacting owner to confirm alignment, size of conduit, and permit issued. FIELD_STRUCT_DESC: Buried telephone cable under crown of roadway. FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_42525_72925.jpg



Service box located on waterward levee shoulder.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	9.52	Rating **	M	Issue No.	1255 (cont)
LM End	9.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202481 °	37.202481 °
				-120.695303 °	-120.695303 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42525 DS_ID:19872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 12/5/14 Accidently missed updating record. Photos have been added and coordinates have been updated. Unable to confirm if crossing is the same cable line originally identified in desk study at levee mile 6.43. Recommend contacting owner to confirm alignment, size of conduit, and permit issued. FIELD_STRUCT_DESC: Buried telephone cable under crown of roadway. FS Date: 4/18/2014					

Photo 2 of 2 : UCIP_FA_2016_42525_72924.jpg



Service box is for electrical conduit.

LM Start	9.56	Rating **	M	Issue No.	1254
LM End	9.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202014 °	37.202014 °
				-120.694820 °	-120.694820 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42524 DS_ID:19873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/5/14 Accidently missed entry. Photos have been added and coordinates have been updated by Olivia Magana. Unable to determine condition of crossing due to limited access. Recommend contacting owner to provide condition of crossing. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 14.0 feet below crown. Slide gate in concrete diversion box on the waterward shoulder. FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_42524_72922.jpg



Overview of levee crown looking upstream.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	9.56	Rating **	M	Issue No.	1254 (cont)
LM End	9.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202014 °	37.202014 °
				-120.694820 °	-120.694820 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42524 DS_ID:19873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/5/14 Accidently missed entry. Photos have been added and coordinates have been updated by Olivia Magana. Unable to determine condition of crossing due to limited access. Recommend contacting owner to provide condition of crossing. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 14.0 feet below crown. Slide gate in concrete diversion box on the waterward shoulder. FS Date: 4/18/2014					

Photo 2 of 2 : UCIP_FA_2016_42524_72921.jpg



Concrete box located on waterward side.

LM Start	9.59	Rating **	M	Issue No.	1216
LM End	9.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694865 °	-120.694865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39492 DS_ID:19742 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidently missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 1 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	9.59	Rating **	M	Issue No.	1258
LM End	9.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47014 DS_ID:19739 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidentally missed--need photos. FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 2 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

No Photos

LM Start	9.59	Rating **	M	Issue No.	1256
LM End	9.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47011 DS_ID:19740 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidentally missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 3 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	9.60	Rating **	M	Issue No.	1259
LM End	9.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47015 DS_ID:19741 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidentally missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 4 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

No Photos

LM Start	9.60	Rating **	M	Issue No.	1257
LM End	9.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47013 DS_ID:19558 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidentally missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 5 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	9.66	Rating **	M	Issue No.	1223
LM End	9.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200948 °	37.200948 °
				-120.694362 °	-120.694362 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39475					
DS_ID:19874					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Waterward side not visible--need to determine alignment.					
FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 14.0 feet below crown. Slide gate in concrete diversion box on the waterward shoulder.					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_39475_61691.jpg



View of landward side.

LM Start	9.66	Rating **	M	Issue No.	1223 (cont)
LM End	9.66	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39475_61690.jpg



Pipe, slide gate, and concrete headwall visible on 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	9.74	Rating **	M	Issue No.	6
LM End	11.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.200697 °	37.187645 °
				-120.692927 °	-120.676996 °
DWR ID	DWR_NA0010_06_s_2012_6				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Levee crown should be regraded due to excessive rutting.					

No Photos

LM Start	11.25	Rating **	M	Issue No.	75
LM End	11.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.186168 °	37.185991 °
				-120.672836 °	-120.664715 °
DWR ID	DWR_NA0010_06_f_2016_75				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	11.25	Rating **	M	Issue No.	73
LM End	12.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.186168 °	37.173115 °
				-120.672836 °	-120.664612 °
DWR ID	DWR_NA0010_06_f_2016_73				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	14
LM End	11.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.186189 °	37.186189 °
				-120.668476 °	-120.668476 °
DWR ID	DWR_NA0010_06_s_2015_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Almond tree located along Sandy Mush Rd. on waterward slope.					

Photo 1 of 1 : FA_2016_NA0010_124_14_20161007_00018.jpg



Looking west at tree on waterward slope.

LM Start	11.56	Rating **	M	Issue No.	1253
LM End	11.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.186227 °	37.186227 °
				-120.667337 °	-120.667337 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39892					
DS_ID:19875					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Unable to stop--high traffic area--safety issue.					
Crossing needs to be evaluated					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 16.6 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.64).					
FS Date: 4/17/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	11.74	Rating **	M	Issue No.	1224
LM End	11.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.185513 °	37.185513 °
				-120.664561 °	-120.664561 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39476 DS_ID:19876 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Clear debris from waterward and landward toes. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 17.0 feet below crown. Slide gate in pipe riser on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.82). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_39476_66488.jpg



View of waterward side.

LM Start	11.74	Rating **	M	Issue No.	1224 (cont)
LM End	11.74	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39476_66487.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	12.06	Rating **	M	Issue No.	74
LM End	12.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.180896 °	37.173115 °
				-120.664560 °	-120.664612 °
DWR ID	DWR_NA0010_06_f_2016_74				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	13.22	Rating **	M	Issue No.	1225
LM End	13.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.171675 °	37.171675 °
				-120.655064 °	-120.655064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39477					
DS_ID:19877					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Not accessible--crossing is buried on landward side.					
Need to contact owner to determine status.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.8 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.30).					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_39477_66492.jpg



View of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	13.22	Rating **	M	Issue No.	1225 (cont)
LM End	13.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.171675 °	37.171675 °
				-120.655064 °	-120.655064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39477					
DS_ID:19877					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Not accessible--crossing is buried on landward side.					
Need to contact owner to determine status.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.8 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.30).					
FS Date: 4/17/2014					

Photo 2 of 2 : UCIP_FA_2016_39477_66494.jpg



View of waterward slope.

LM Start	13.24	Rating **	M	Issue No.	68
LM End	13.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.171686 °	37.171686 °
				-120.654562 °	-120.654562 °
DWR ID	DWR_NA0010_06_f_2015_68				
Comment Code					
MA : Material					
Inspector Comment					
Landowner stockpile dirt at landward toe.					

Photo 1 of 1 : FA_2016_NA0010_124_68_20161007_00019.jpg



Looking west at dirt stockpile at landward toe.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	14.36	Rating **	M	Issue No.	1226
LM End	14.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.167888 °	37.167888 °
				-120.636419 °	-120.636419 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39478 DS_ID:19878 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not accessible--crossing is buried on landward side. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 12.3 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.44). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_39478_66496.jpg



View of waterward slope.

LM Start	14.36	Rating **	M	Issue No.	1226 (cont)
LM End	14.36	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39478_66497.jpg



View of pipe daylight, flap gate, and concrete headwall visible on waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	14.94	Rating **	M	Issue No.	1212
LM End	14.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.162287 °	37.162287 °
				-120.628791 °	-120.628791 °
DWR ID	DWR_NA0010_06_s_2015_1212				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted on levee crown and landside and waterside slopes.					

Photo 1 of 1 : FA_2016_NA0010_124_1212_20161007_00040.jpg



Looking at rodent hole on levee crown.

LM Start	15.46	Rating **	M	Issue No.	124
LM End	15.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.158920 °	37.157217 °
				-120.620232 °	-120.618915 °
DWR ID	DWR_NA0010_06_s_2012_124				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
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
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	15.68	Rating **	M	Issue No.	1227
LM End	15.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.156934 °	37.156934 °
				-120.617210 °	-120.617210 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39480 DS_ID:19884 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup on both the waterward and landward side. Recommend removing sediment buildup from both side. Also recommend clearing excess sediment inside crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 14.0 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.76). FS Date: 4/17/2014					

LM Start	15.68	Rating **	M	Issue No.	1227 (cont)
LM End	15.68	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39480_66507.jpg



Flap gate buried halfway on waterward side.

Photo 2 of 2 : UCIP_FA_2016_39480_66506.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1242
LM End	15.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.155539 °	37.155539 °
				-120.615303 °	-120.615303 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36663 DS_ID:19885 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Waterward side is buried and not accessible. Landward side headwall is blocked by dense vegetation. Recommend confirming status of flap gate on waterward side and removing dense vegetation form landward side. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 16.6 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.91). FS Date: 4/17/2014					

LM Start	15.82	Rating **	M	Issue No.	1242 (cont)
LM End	15.82	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_36663_66530.jpg



View of waterward side, Photo 1 of 3.

Photo 2 of 2 : UCIP_FA_2016_36663_66526.jpg



View of waterward side, photo 2 of 3.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	16.40	Rating **	M	Issue No.	1243
LM End	16.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.149747 °	37.149747 °
				-120.607702 °	-120.607702 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36665					
DS_ID:19559					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status of crossing. Unable to confirm pipe diameter.					
FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 5.9 feet below the crown. Slide gate on the waterward side. Siphon extends under channel. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.49).					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_36665_66541.jpg



View of waterward side.

LM Start	16.40	Rating **	M	Issue No.	1243 (cont)
LM End	16.40	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36665_66539.jpg



Concrete headwall and pipe visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	17.72	Rating **	M	Issue No.	67
LM End	18.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.133833 °	37.120953 °
				-120.594568 °	-120.587930 °
DWR ID	DWR_NA0010_06_f _ 2016_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	17.72	Rating **	M	Issue No.	72
LM End	18.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.133833 °	37.120953 °
				-120.594568 °	-120.587930 °
DWR ID	DWR_NA0010_06_f_2016_72				
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 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	18.20	Rating **	M	Issue No.	1251
LM End	18.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.127773 °	37.127773 °
				-120.590809 °	-120.590809 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39876					
DS_ID:19887					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment build up on landward side toe -- debris blockage. No photos available. Recommend taking photos of crossing.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.5 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.27).					
FS Date: 4/17/2014					

No Photos

LM Start	18.81	Rating **	U	Issue No.	1261
LM End	18.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.119268 °	37.119268 °
				-120.587208 °	-120.587208 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49974 DS_ID:19888 EP_NO: 3040 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/20/2016 Same as previous inspection. Dense vegetation prevents proper inspection along floodway. (DWR UCIP - omagana)4/17/2014 Need to contact owner. Leak on waterward toe approximately 15 feet from toe. Good candidate for video or pressure test. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe through levee, 8.8 feet below crown. Slide gate in riser pipe is located on the landside (LS) (not waterside (WS) slope). Concrete headwall on is located on the LS (not WS). Siphon under channel. 24-inch corrugated metal pipe (CMP) "clean out" point at the center of channel with metal plate cover. (Permit No. 3040, 1960 - Newhall Land and Farming Company) [Additional Reference(s): DWR Levee Log, 2002] FS Date: 7/20/2016					

Photo 1 of 2 : UCIP_FA_2016_49974_66562.jpg



View of WS. Channel section exposed near waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	18.81	Rating **	U	Issue No.	1261 (cont)
LM End	18.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.119268 °	37.119268 °
				-120.587208 °	-120.587208 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49974 DS_ID:19888 EP_NO: 3040 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/20/2016 Same as previous inspection. Dense vegetation prevents proper inspection along floodway. (DWR UCIP - omagana)4/17/2014 Need to contact owner. Leak on waterward toe approximately 15 feet from toe. Good candidate for video or pressure test. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe through levee, 8.8 feet below crown. Slide gate in riser pipe is located on the landside (LS) (not waterside (WS) slope). Concrete headwall on is located on the LS (not WS). Siphon under channel. 24-inch corrugated metal pipe (CMP) "clean out" point at the center of channel with metal plate cover. (Permit No. 3040, 1960 - Newhall Land and Farming Company) [Additional Reference(s): DWR Levee Log, 2002] FS Date: 7/20/2016					

Photo 2 of 2 : UCIP_FA_2016_49974_66564.jpg



Overview of Eastside Bypass.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	18.89	Rating **	M	Issue No.	1244
LM End	18.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.118178 °	37.118178 °
				-120.586783 °	-120.586783 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36687					
DS_ID:19889					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.2 feet below crown. Slide gate in pipe riser on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.97).					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_36687_66579.jpg



View of waterward side.

LM Start	18.89	Rating **	M	Issue No.	1244 (cont)
LM End	18.89	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36687_66582.jpg



Inside view of CMP riser located on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211
LM End	19.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.114793 °	37.114793 °
				-120.587582 °	-120.587582 °
DWR ID	DWR_NA0010_06_s_ 2015_1211				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope					

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 1 of 5 : FA_2016_NA0010_124_1211_20161007_00035.jpg



Looking at rodent hole on waterward slope. Spring 2016

Photo 2 of 5 : FA_2016_NA0010_124_1211_20161007_00036.jpg



Looking at several rodent holes on waterward slope. (Fall 2015)

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 3 of 5 : FA_2016_NA0010_124_1211_20161007_00037.jpg

Looking at close-up view of large rodent hole on waterward slope.
(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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.114793 °	37.114793 °
				-120.587582 °	-120.587582 °
DWR ID	DWR_NA0010_06_s_ 2015_1211				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope					

Photo 4 of 5 : FA_2016_NA0010_124_1211_20161007_00038.jpg



Looking at large rodent hole on waterward slope. Spring 2015

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 5 of 5 : FA_2016_NA0010_124_1211_20161007_00039.jpg



Looking west at several rodent holes on waterward slope. 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.28	Rating **	M	Issue No.	1245
LM End	19.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112902 °	37.112902 °
				-120.588751 °	-120.588751 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36688 DS_ID:19890 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48-inch CM pipe through levee, 20.0 feet below crown. Slide gate in pipe riser on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.36). Rip rap along landward slope. FS Date: 4/17/2014					

LM Start	19.28	Rating **	M	Issue No.	1245 (cont)
LM End	19.28	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36688_66583.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_36688_66584.jpg



Riser located on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.94	Rating **	M	Issue No.	1217
LM End	19.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113304 °	37.113304 °
				-120.579102 °	-120.579102 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36689 DS_ID:19891 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 2.5x2.5-foot R.C.B.C. through the levee, 14.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.85). FS Date: 4/17/2014					

LM Start	19.94	Rating **	M	Issue No.	1217 (cont)
LM End	19.94	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_36689_66591.jpg



Overview of levee crown looking downstream.

Photo 2 of 2 : UCIP_FA_2016_36689_66592.jpg



View of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	20.79	Rating **	U	Issue No.	1209
LM End	20.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.113107 °	37.112176 °
				-120.563782 °	-120.562516 °
DWR ID	DWR_NA0010_06_s_ 2015_1209				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on landward slope greater than 3 inches. Erosion caused by livestock.					

Photo 1 of 2 : FA_2016_NA0010_124_1209_20161007_00033.jpg



Looking north at livestock erosion on landward slope.

LM Start	20.79	Rating **	U	Issue No.	1209 (cont)
LM End	20.88	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_124_1209_20161007_00034.jpg



Looking northeast at livestock erosion on landward slope.

LM Start	20.80	Rating **	M	Issue No.	66
LM End	24.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.113014 °	37.072994 °
				-120.563585 °	-120.521192 °
DWR ID	DWR_NA0010_06_f_ 2016_66				
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 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	20.80	Rating **	M	Issue No.	65
LM End	24.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.113013 °	37.072993 °
				-120.563585 °	-120.521192 °
DWR ID	DWR_NA0010_06_f_2016_65				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	22.99	Rating **	M	Issue No.	8
LM End	23.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.088663 °	37.087968 °
				-120.538193 °	-120.537485 °
DWR ID	DWR_NA0010_06_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
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
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	24.02	Rating **	M	Issue No.	1213
LM End	24.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.077406 °	37.077406 °
				-120.525938 °	-120.525938 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34010					
DS_ID:19879					
EP_NO: 13638					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status. Crossing has been modified.					
FIELD_STRUCT_DESC: 16-inch steel pipe through levee, 3.5 feet below crown. Pump on the waterside. Siphon breaker on the landward shoulder. Cutoff wall around pipe at center of levee. Intake trench on waterward side. (Permit No. 13638-1984)					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_FA_2016_34010_61871.jpg



Overview of levee crown at crossing.

LM Start	24.02	Rating **	M	Issue No.	1213 (cont)
LM End	24.02	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_34010_61870.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	24.58	Rating **	M	Issue No.	5	
LM End	24.93	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.071198 °		°
				-120.519220 °		°
DWR ID	DWR_NA0010_06_s_2012_5					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landside erosion caused by livestock.						

LM Start	24.58	Rating **	M	Issue No.	5 (cont)
LM End	24.93	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : FA_2016_NA0010_124_5_20161007_00013.jpg



Looking north at livestock erosion on landward slope. (Spring 2015)

Photo 2 of 3 : FA_2016_NA0010_124_5_20161007_00014.jpg



Looking north at livestock erosion on landward slope. (Spring 2014)

LM Start	24.58	Rating **	M	Issue No.	5 (cont)
LM End	24.93	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_124_5_20161007_00015.jpg



Looking north at livestock erosion on landside slope. (Fall 2014)

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	26.13	Rating **	M	Issue No.	1208
LM End	26.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.054222 °	37.054222 °
				-120.500862 °	-120.500862 °
DWR ID	DWR_NA0010_06_s_2015_1208				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes next to and within rock revetment on landward slope.					

Photo 1 of 1 : FA_2016_NA0010_124_1208_20161007_00032.jpg



Rodent holes on landward slope.

LM Start	27.64	Rating **	M	Issue No.	3
LM End	27.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.036955 °	37.032887 °
				-120.484395 °	-120.481225 °
DWR ID	DWR_NA0010_06_s_2012_3				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landside erosion caused by livestock. Erosion greater than 3" in depth on landward slope. Levee crown has narrowed within this reach.					

Photo 1 of 4 : FA_2016_NA0010_124_3_20161007_00009.jpg



Looking north at livestock erosion on landward slope. Fall 2015

LM Start	27.64	Rating **	M	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : FA_2016_NA0010_124_3_20161007_00010.jpg



Looking north at livestock erosion on landward shoulder and slope.(Spring 2015)

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	27.64	Rating **	M	Issue No.	3 (cont)	
LM End	27.97	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.036955 °		37.032887 °
				-120.484395 °		-120.481225 °
DWR ID	DWR_NA0010_06_s_2012_3					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landside erosion caused by livestock. Erosion greater than 3" in depth on landward slope. Levee crown has narrowed within this reach.						

LM Start	27.64	Rating **	M	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2016_NA0010_124_3_20161007_00011.jpg



Looking north at livestock erosion on landside shoulder and slope. (Fall 2014)

Photo 4 of 4 : FA_2016_NA0010_124_3_20161007_00012.jpg



Looking north at livestock erosion on landward slope. (Spring 2013)

LM Start	28.47	Rating **	M	Issue No.	19
LM End	28.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.029937 °	37.030102 °
				-120.473384 °	-120.469122 °
DWR ID	DWR_NA0010_06_s_2015_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	29.44	Rating **	M	Issue No.	1252
LM End	29.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.030369 °	37.030369 °
				-120.455969 °	-120.455969 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39886 DS_ID:19881 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 12.4 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope. Concrete "U" headwall on both ends. Cobble pad on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 29.34). FS Date: 4/10/2014					

LM Start	29.44	Rating **	M	Issue No.	1252 (cont)
LM End	29.44	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39886_66600.jpg



View of waterward side--slide gate inside CMP riser located on waterward slope.

Photo 2 of 2 : UCIP_FA_2016_39886_66603.jpg



Inside view of CMP riser located on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	30.36	Rating **	M	Issue No.	1218
LM End	30.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.027330 °	37.027330 °
				-120.441498 °	-120.441498 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36693 DS_ID:19882 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Altered crossing--steel pipe section on landward side and concrete pipe section on waterward side. Joints on waterward side seperated. Need to contact owner to determine status. FIELD_STRUCT_DESC: [Rodunder Siphon Structure] 48-inch R.C. siphon pipe through the levee, 14.5 feet below the crown. Concrete "U" headwall on outlet structure on the landward end. Slide gate mounted on the headwall. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.27). FS Date: 4/10/2014					

Photo 1 of 2 : UCIP_FA_2016_36693_66607.jpg



Overview of waterward side.

LM Start	30.36	Rating **	M	Issue No.	1218 (cont)
LM End	30.36	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36693_66604.jpg



Overview of Eastside Bypass at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	30.81	Rating **	U	Issue No.	1207
LM End	31.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.021615 °	37.018428 °
				-120.437587 °	-120.435378 °
DWR ID	DWR_NA0010_06_s_ 2015_1207				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Landward erosion greater than 1" in depth and greater than 3" in length.					
Erosion caused by livestock traffic.					

LM Start	30.81	Rating **	U	Issue No.	1207 (cont)
LM End	31.06	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_124_1207_20161007_00030.jpg



Looking northeast at livestock erosion on landward slope.

Photo 2 of 2 : FA_2016_NA0010_124_1207_20161007_00031.jpg



Looking south at livestock erosion on landward slope.

LM Start	31.07	Rating **	M	Issue No.	64
LM End	35.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.018336 °	36.974630 °
				-120.435314 °	-120.383942 °
DWR ID	DWR_NA0010_06_f_ 2016_64				
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 M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	31.07	Rating **	M	Issue No.	63
LM End	35.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.018336 °	36.974629 °
				-120.435314 °	-120.383941 °
DWR ID	DWR_NA0010_06_f_2016_63				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	31.10	Rating **	U	Issue No.	2
LM End	31.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.017955 °	37.017955 °
				-120.435017 °	-120.435017 °
DWR ID	DWR_NA0010_06_s_2012_2				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_124_2_20161007_00007.jpg



Looking west at rodent holes on landside slope and toe near fence line.

LM Start	31.10	Rating **	U	Issue No.	2 (cont)
LM End	31.10	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_124_2_20161007_00008.jpg



Looking at typical rodent hole on landside slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	33.08	Rating **	M	Issue No.	1260
LM End	33.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995672 °	36.995672 °
				-120.412919 °	-120.412919 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46183 DS_ID:19883 EP_NO: 6416A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing updated--need to contact owner to determine permit issued by CVFPB for authorized changes. FIELD_STRUCT_DESC: 20-inch (not 18 inch as mentioned in DS study) steel pipe through the levee, 3.9 feet below crown. Electrical conduit through levee. Capped with welded plate on landward end. Siphon breaker on apex of pipe on the landward shoulder. Cutoff wall around pipe at centerline of levee. Slant pump on waterward slope. (Permit No. 6416A-1980) FS Date: 4/10/2014					

LM Start	33.08	Rating **	M	Issue No.	1260 (cont)
LM End	33.08	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_46183_61898.jpg



View of waterward side--pipe and pump fenced off on waterward slope.

Photo 2 of 2 : UCIP_FA_2016_46183_61902.jpg



Electrical conduit visible on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	35.42	Rating **	M	Issue No.	1214
LM End	35.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.974509 °	36.974509 °
				-120.382056 °	-120.382056 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39481 DS_ID:19813 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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. High vegetation along crossing alignment--recommend removing vegetation along pipe crossing. FIELD_STRUCT_DESC: 48x72-inch through the levee, 15.1 feet below the crown. Slide gate in concrete riser in the waterward slope. Concrete "U" headwall on both ends. Landside channel cobble revetted for 8.0 feet. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 35.33). FS Date: 4/10/2014					

LM Start	35.42	Rating **	M	Issue No.	1214 (cont)
LM End	35.42	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39481_66628.jpg



View of waterward side--slide gate inside concrete box.

Photo 2 of 2 : UCIP_FA_2016_39481_66632.jpg



View of waterward slope covered by dense vegetation.

* 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 07 Bear Creek Bypass			Right	3.62
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/16/2016 - 5/16/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	191
LM End	0.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.255897 °	37.255897 °
				-120.771127 °	-120.771127 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49966
DS_ID:19892
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/20/2016 Inlet blocked off by wooden board. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along WS and LS. Crossing downgraded from Urgent to Non-Urgent. (DWR UCIP - omagana)04/15/2014 Flapgate partially blocked by soil buildup at WS toe. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.8 feet below the crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS) end. Concrete "U" headwall located on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 0.07), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969]
FS Date: 7/20/2016

LM Start	0.07	Rating **	M	Issue No.	191 (cont)
LM End	0.07	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_49966_60954.jpg



Pipe and headwall at WS toe.

Photo 2 of 2 : UCIP_FA_2016_49966_60955.jpg



Pipe, headwall, and flapgate at WS toe. Soil buildup partially blocking flapgate.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	188
LM End	0.49	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.258543 °	37.258543 °
				-120.764728 °	-120.764728 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:33713
DS_ID:19894
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Slide gate not operable, but left in closed position.
Need to reinstall covers over slide gate standpipe.
FIELD_STRUCT_DESC: 36-inch C.M stormdrain pipe through the levee, 9.7 feet below the crown. Slide gate in 48-inch C.M. pipe riser in the landward slope. Concrete "U" headwall on the landward end, inlet channel cobble revetted. Dilapidated wooden pier on WS. Waterward slope and outlet ditch cobble revetted. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.49).
FS Date: 4/15/2014

LM Start	0.49	Rating **	M	Issue No.	188 (cont)
LM End	0.49	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_33713_60963.jpg



Slide gate in CMP riser on WS slope.

Photo 2 of 2 : UCIP_FA_2016_33713_60965.jpg



Outlet on WS slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.50	Rating **	M	Issue No.	29
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.258722 °	37.258722 °
				-120.764867 °	-120.764867 °
DWR ID	DWR_NA0010_07_s_2012_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted on landward and waterward slope and shoulder.					

Photo 1 of 1 : FA_2016_NA0010_125_29_20161007_00005.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	0.85	Rating **	M	Issue No.	189
LM End	0.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.262981 °	37.262981 °
				-120.761703 °	-120.761703 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39507 DS_ID:19896 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Heavy sediment buildup at inlet due to animal activity should be cleared. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Wooden weir on concrete headwall at the LS toe. 36-inch concrete riser at LS toe. Concrete "U" headwall on the waterward end. Concrete standpipe on landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.85). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_FA_2016_39507_60986.jpg



Headwall and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.85	Rating **	M	Issue No.	189 (cont)
LM End	0.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.262981 °	37.262981 °
				-120.761703 °	-120.761703 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39507 DS_ID:19896 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Heavy sediment buildup at inlet due to animal activity should be cleared. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Wooden weir on concrete headwall at the LS toe. 36-inch concrete riser at LS toe. Concrete "U" headwall on the waterward end. Concrete standpipe on landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.85). FS Date: 4/15/2014					

Photo 2 of 2 : UCIP_FA_2016_39507_60988.jpg



Headwall and flapgate on WS toe.

LM Start	1.22	Rating **	M	Issue No.	1
LM End	1.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.264387 °	37.264387 °
				-120.755805 °	-120.755805 °
DWR ID	DWR_NA0010_07_f_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_125_1_20161007_00001.jpg



Looking north at several rodent holes on landward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.22	Rating **	M	Issue No.	1 (cont)	
LM End	1.22	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.264387 °		37.264387 °
				-120.755805 °		-120.755805 °
DWR ID	DWR_NA0010_07_f_2012_1					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : FA_2016_NA0010_125_1_20161007_00002.jpg



Looking at east at active rodent holes on landside berm.

LM Start	1.25	Rating **	C	Issue No.	11
LM End	1.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.264367 °	37.264367 °
				-120.755218 °	-120.755218 °
DWR ID	DWR_NA0010_07_f_2014_11				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	1.51	Rating **	M	Issue No.	6
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263885 °	37.263885 °
				-120.750527 °	-120.750527 °
DWR ID	DWR_NA0010_07_s_2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
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
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.71	Rating **	M	Issue No.	5
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.262570 °	37.262467 °
				-120.747453 °	-120.747180 °
DWR ID	DWR_NA0010_07_s_2013_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.94	Rating **	C	Issue No.	187
LM End	1.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.261032 °	37.261032 °
				-120.743705 °	-120.743705 °
DWR ID	DWR_NA0010_07_s_2015_187				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.09	Rating **	M	Issue No.	12
LM End	2.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259187 °	37.259187 °
				-120.742551 °	-120.742551 °
DWR ID	DWR_NA0010_07_f_2014_12				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent activity noted next to fence post.					

Photo 1 of 2 : FA_2016_NA0010_125_12_20161007_00003.jpg



Looking east at rodent hole next to fence post on landward shoulder.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.09	Rating **	M	Issue No.	12 (cont)	
LM End	2.09	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.259187 °		37.259187 °
				-120.742551 °		-120.742551 °
DWR ID	DWR_NA0010_07_f_2014_12					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Rodent activity noted next to fence post.						

Photo 2 of 2 : FA_2016_NA0010_125_12_20161007_00004.jpg



Looking at rodent activity next to fence post

LM Start	3.09	Rating **	M	Issue No.	190
LM End	3.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.251883 °	37.251883 °
				-120.728264 °	-120.728264 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39508 DS_ID:19901 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup at landward toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.4-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.09). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_FA_2016_39508_61016.jpg



Headwall, pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	3.09	Rating **	M	Issue No.	190 (cont)
LM End	3.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.251883 °	37.251883 °
				-120.728264 °	-120.728264 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39508 DS_ID:19901 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup at landward toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.4-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.09). FS Date: 4/15/2014					

Photo 2 of 2 : UCIP_FA_2016_39508_61015.jpg



Headwall, pipe, and flapgate on WS 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 08 Bear Creek Bypass			Left	3.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/17/2016 - 5/17/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	15
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.257019 °	37.257019 °
				-120.764488 °	-120.764488 °
DWR ID	DWR_NA0010_08_s_2016_15				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.90	Rating **	M	Issue No.	21
LM End	0.90	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.262384 °	37.262384 °
				-120.760528 °	-120.760528 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39887 DS_ID:19832 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup at inlet on LS toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 11.5 feet below crown. Flap gate on the waterward end. Concrete headwalls. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.89). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39887_61084.jpg



Headwall, pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.90	Rating **	M	Issue No.	21 (cont)	
LM End	0.90	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.262384 °	37.262384 °	
				-120.760528 °	-120.760528 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39887						
DS_ID:19832						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Some sediment buildup at inlet on LS toe.						
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee,						
11.5 feet below crown. Flap gate on the waterward end. Concrete						
headwalls. (USACE-1967). This entry matches the Drainage or						
Irrigation Structure referenced in O&M manual (HLM 0.89).						
FS Date: 4/16/2014						

Photo 2 of 2 : UCIP_FA_2016_39887_61083.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	1.16	Rating **	M	Issue No.	5
LM End	1.16	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.263243 °	37.263243 °
				-120.756372 °	-120.756372 °
DWR ID	DWR_NA0010_08_s_2016_5				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression noted on levee crown.					

Photo 1 of 1 : FA_2016_NA0010_126_5_20161007_00002.jpg



Looking west at depression on toward landward shoulder.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.20	Rating **	M	Issue No.	2	
LM End	1.20	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.263182 °		37.263183 °
				-120.755650 °		-120.755637 °
DWR ID	DWR_NA0010_08_s_2012_2					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

No Photos

LM Start	1.21	Rating **	M	Issue No.	16
LM End	1.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.263188 °	37.263188 °
				-120.755399 °	-120.755399 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39509					
DS_ID:19833					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Debris blocking landward headwall--recommend clearing.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 11.6 feet below crown. Flap gate on the waterward end. Concrete headwalls. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.21).					
FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39509_61090.jpg



Concrete headwall, pipe, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	17
LM End	1.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.263194 °	37.263194 °
				-120.752299 °	-120.752299 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39510 DS_ID:19834 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows along pipe alignment on LS. Some sediment buildup at LS toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 11.5 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.38). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39510_61094.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	1.38	Rating **	M	Issue No.	17 (cont)
LM End	1.38	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39510_61093.jpg



Pipe, headwall, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.61	Rating **	M	Issue No.	1
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.261842 °	37.261842 °
				-120.748510 °	-120.748510 °
DWR ID	DWR_NA0010_08_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.258220 °	37.258220 °
				-120.742868 °	-120.742868 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39511					
DS_ID:19835					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Non-functional landward inlet is buried in sediment.					
Need to contact owner to determine status.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee,					
12.0 feet below crown. Flap gate on the waterward end. Concrete					
headwall on both ends. (USACE-1967). This entry matches the					
Drainage or Irrigation Structure referenced in O&M manual (HLM 2.05).					
FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39511_61098.jpg



Pipe, headwall, and flapgate on Ws 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	19
LM End	2.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.257800 °	37.257800 °
				-120.741604 °	-120.741604 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39512
DS_ID:19836
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Sediment buildup in pipe visible from landward side.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 9.5-feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.12).
FS Date: 4/16/2014

LM Start	2.12	Rating **	M	Issue No.	19 (cont)
LM End	2.12	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39512_61102.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39512_61100.jpg



Pipe, headwall, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	3.06	Rating **	M	Issue No.	22
LM End	3.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.250864 °	37.250864 °
				-120.728151 °	-120.728151 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49969
DS_ID:19838
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/20/2016 LS inlet buried under dense vegetation. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the WS and LS slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)4/16/2014 Pipe blocked by silt on LS toe. Flapgate rusty and does not operate correctly. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through levee, 13.4 feet below crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS).
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 3.06), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969]
FS Date: 7/20/2016

LM Start	3.06	Rating **	M	Issue No.	22 (cont)
LM End	3.06	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_49969_61112.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_FA_2016_49969_61113.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	3.40	Rating **	M	Issue No.	3
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.253052 °	37.253600 °
				-120.722647 °	-120.720198 °
DWR ID	DWR_NA0010_08_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes on landward slope within this reach.					

Photo 1 of 1 : FA_2016_NA0010_126_3_20161007_00001.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	3.43	Rating **	M	Issue No.	20
LM End	3.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.253151 °	37.253151 °
				-120.722182 °	-120.722182 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39513					
DS_ID:19840					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No access available on landward side. Need to confirm status of crossing.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 13.0 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.43).					
FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_FA_2016_39513_61134.jpg



Pipe, headwall, and flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	3.43	Rating **	M	Issue No.	20 (cont)
LM End	3.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.253151 °	37.253151 °
				-120.722182 °	-120.722182 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39513 DS_ID:19840 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access available on landward side. Need to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 13.0 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.43). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_FA_2016_39513_61133.jpg



Pipe, headwall, and flapgate on WS 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 09 Owens Creek Bypass			Right	0.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	5/17/2016 - 5/17/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.47	Rating **	M	Issue No.	7
LM End	0.47	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.220416 °	37.220416 °
				-120.705248 °	-120.705248 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39888					
DS_ID:19841					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Concrete headwalls on landward and waterward under water. Need photo to confirm condition of concrete headwalls, pipe, and gate on both toes.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 18.7-feet below the crown. Slide gate inside 36-inch C.M. pipe riser on the waterward slope. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.47).					
FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_39888_62119.jpg



Slide gate in CMP riser on WS slope with outlet visible in background.

LM Start	0.47	Rating **	M	Issue No.	7 (cont)
LM End	0.47	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_39888_62117.jpg



Concrete headwall visible under water on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.69	Rating **	M	Issue No.	6
LM End	0.69	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.219874 °	37.219874 °
				-120.701438 °	-120.701438 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39515 DS_ID:19842 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows in area on LS slope. Minor sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 8.7-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.70). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_FA_2016_39515_62128.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	0.69	Rating **	M	Issue No.	6 (cont)
LM End	0.69	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_39515_62132.jpg



Headwall, flapgate, and pipe on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.87	Rating **	U	Issue No.	5
LM End	0.87	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			37.220065 °	37.220065 °
				-120.698350 °	-120.698350 °
DWR ID	DWR_NA0010_09_s_ 2016_5				
Comment Code					
Inspector Comment					
Gate hinges broken. Safety hazard.					

Photo 1 of 1 : FA_2016_NA0010_127_5_20161007_00001.jpg



Looking at missing hingers on fence post.

* 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 10 Owens Creek Bypass			Left	0.80
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/17/2016 - 5/17/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.30	Rating **	M	Issue No.	1	
LM End	0.30	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.219116 °		37.219116 °
				-120.706652 °		-120.706652 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39516 DS_ID:19845 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet blocked at LS toe by wooden gate. Need to contact owner to determine status. FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through levee, 19.6-feet below crown. Slide gate in 48-inch CM pipe riser on the waterward slope. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.31). FS Date: 4/22/2014						

LM Start	0.30	Rating **	M	Issue No.	1 (cont)
LM End	0.30	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2016_39516_62144.jpg



Headwall and pipe visible on LS toe. Slide gate inside 48-inch CMP riser on WS slope.

Photo 2 of 2 : UCIP_FA_2016_39516_62146.jpg



Headwall and pipe on WS 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 11 Mariposa Bypass			Right	3.31
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/19/2016 - 5/19/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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>

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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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	2
LM End	0.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202754 °	37.202754 °
				-120.747689 °	-120.747689 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39517					
DS_ID:19846					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 11.0 feet below the crown. Slide gate inside CMP riser located on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.42).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39517_66644.jpg



View of slide gate inside CMP riser located on waterward slope.

LM Start	0.42	Rating **	M	Issue No.	2 (cont)
LM End	0.42	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39517_66643.jpg



View of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	3
LM End	0.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202751 °	37.202751 °
				-120.743474 °	-120.743474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39518					
DS_ID:19847					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.65).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39518_61997.jpg



View of waterward side.

LM Start	0.65	Rating **	M	Issue No.	3 (cont)
LM End	0.65	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39518_61996.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.84	Rating **	M	Issue No.	4
LM End	0.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202745 °	37.202745 °
				-120.739935 °	-120.739935 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39519					
DS_ID:19848					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 10.3 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.84).					
FS Date: 4/18/2014					

LM Start	0.84	Rating **	M	Issue No.	4 (cont)
LM End	0.84	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39519_62003.jpg



Overview of waterward side.

Photo 2 of 2 : UCIP_FA_2016_39519_62002.jpg



Concrete headwall and flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	5
LM End	1.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202748 °	37.202748 °
				-120.734796 °	-120.734796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39520 DS_ID:19849 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.13). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39520_62008.jpg



View of waterward side--flap gate visible at levee toe.

LM Start	1.13	Rating **	M	Issue No.	5 (cont)
LM End	1.13	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39520_62007.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.49	Rating **	M	Issue No.	6
LM End	1.49	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202753 °	37.202753 °
				-120.728133 °	-120.728133 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39521					
DS_ID:19850					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 48-inch C.M. pipe through the levee, 16.3 feet below the crown. Slide gate in riser pipe on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.50).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39521_62018.jpg



View of waterward side.

LM Start	1.49	Rating **	M	Issue No.	6 (cont)
LM End	1.49	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39521_62017.jpg



View of concrete headwall 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	1
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.202743 °	37.202743 °
				-120.723187 °	-120.723187 °
DWR ID	DWR_NA0010_11_s_2012_1				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.98	Rating **	M	Issue No.	7
LM End	1.98	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202740 °	37.202740 °
				-120.719247 °	-120.719247 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39522					
DS_ID:19851					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 12.8 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.99).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39522_62024.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.98	Rating **	M	Issue No.	7 (cont)	
LM End	1.98	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.202740 °	37.202740 °	
				-120.719247 °	-120.719247 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39522						
DS_ID:19851						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 12.8 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.99).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39522_62025.jpg



Flap gate located on waterward side.

LM Start	3.04	Rating **	M	Issue No.	8
LM End	3.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202494 °	37.202494 °
				-120.700153 °	-120.700153 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39523					
DS_ID:19852					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.04).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39523_62028.jpg



Overview of waterward side--flap gate, concrete headwall and apron visible on levee 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	3.04	Rating **	M	Issue No.	8 (cont)	
LM End	3.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.202494 °	37.202494 °	
				-120.700153 °	-120.700153 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39523						
DS_ID:19852						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.04).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39523_62027.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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 12 Mariposa Bypass			Left	3.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/19/2016 - 5/19/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	3
LM End	0.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200934 °	37.200934 °
				-120.747996 °	-120.747996 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36704 DS_ID:19855 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.5 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.39). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36704_66647.jpg



View of waterward side.

LM Start	0.40	Rating **	M	Issue No.	3 (cont)
LM End	0.40	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36704_66649.jpg



Concrete headwall and flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	6
LM End	1.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200922 °	37.200922 °
				-120.736012 °	-120.736012 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39889					
DS_ID:19856					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.5 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.06).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39889_62048.jpg



View of waterward side.

LM Start	1.06	Rating **	M	Issue No.	6 (cont)
LM End	1.06	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39889_62049.jpg



Concrete headwall and flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.27	Rating **	M	Issue No.	4
LM End	1.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200919 °	37.200919 °
				-120.732234 °	-120.732234 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36705 DS_ID:19857 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Landward side not accessible due to dense vegetation and fence. Concrete headwall and flap gate under water therefore not able to evaluate condition. Will need to coordinate with owner to evaluate condition of crossing on waterward side and obtain access to evaluate landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 17.4 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.27). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_36705_66654.jpg



Overview of levee crown at crossing.

LM Start	1.27	Rating **	M	Issue No.	4 (cont)
LM End	1.27	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36705_66652.jpg



View of waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	2
LM End	1.53	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200913 °	37.200913 °
				-120.727496 °	-120.727496 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34126 DS_ID:19858 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Limited access on landward side due to fence and dense vegetation. Recommend obtaining access to landward side and clear vegetation on landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.7 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.53). FS Date: 4/18/2014					

LM Start	1.53	Rating **	M	Issue No.	2 (cont)
LM End	1.53	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_34126_62060.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_34126_62061.jpg



Concrete headwall and flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	2.16	Rating **	M	Issue No.	5
LM End	2.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200908 °	37.200908 °
				-120.716118 °	-120.716118 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39506					
DS_ID:19859					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing vegetation from landward side--headwall blocked.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 14.4 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.16).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39506_62064.jpg



View of waterward side.

LM Start	2.16	Rating **	M	Issue No.	5 (cont)
LM End	2.16	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39506_62063.jpg



Overview of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	1
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.200907 °	37.200907 °
				-120.712978 °	-120.712978 °
DWR ID	DWR_NA0010_12_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.70	Rating **	M	Issue No.	7
LM End	2.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200906 °	37.200906 °
				-120.706316 °	-120.706316 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39890					
DS_ID:19860					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.7 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39890_62069.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	2.70	Rating **	M	Issue No.	7 (cont)	
LM End	2.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.200906 °	37.200906 °	
				-120.706316 °	-120.706316 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39890						
DS_ID:19860						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.7 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39890_62070.jpg



Concrete headwall and flat gate 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	9
LM End	3.00	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200931 °	37.200931 °
				-120.700908 °	-120.700908 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46786 DS_ID:19861 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11-09-2015 DWR Inspection section confirmed issue has been addressed. Need to coordinate with LMA to determine additional details for extent of repair. 10-18-2014 Soil missing behind concrete headwall on waterward side. Unable to determine if missing soil is due to sink holes, rodent activity, or due to erosion. Headwall appears to be leaning slightly forward. Reason why this crossing was labelled urgent was due to the uncertainty of damage to concrete headwall and reason for soil missing behind concrete. Need to coordinate with LMA to determine more information about repair at this location. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 2 feet below levee crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.00). FS Date: 11/10/2015 9:29:00 AM					

LM Start	3.00	Rating **	M	Issue No.	9 (cont)
LM End	3.00	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_46786_62073.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_46786_74729.jpg



Repair to headwall located on waterward side has been addressed.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	3.33	Rating **	M	Issue No.	8
LM End	3.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200954 °	37.200954 °
				-120.694795 °	-120.694795 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39893 DS_ID:19906 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Unable to confirm if crossing recorded as Unit 6 9.735 is the same as this one. No way to measure diameter crossing has slide gate on landward side. FIELD_STRUCT_DESC: [Eastside Canal Siphon] 48-inch CM pipe through levee, 17.5 feet below the crown and under the channel. Slide gate on landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.36). FS Date: 4/18/2014					

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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 13 Ash Slough			Right	1.27
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/17/2016 - 5/17/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.15	Rating **	M	Issue No.	3
LM End	0.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.035697 °	37.035697 °
				-120.441197 °	-120.441197 °
DWR ID	DWR_NA0010_13_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

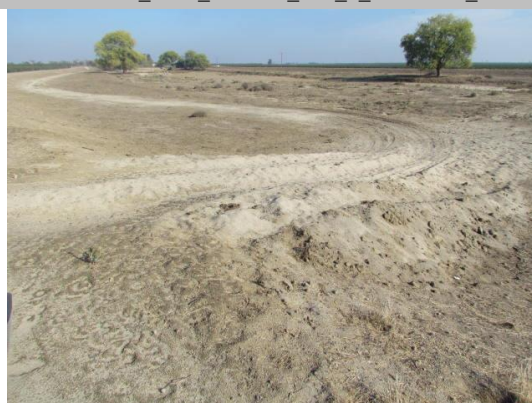
No Photos

LM Start	0.72	Rating **	M	Issue No.	4
LM End	0.72	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.042960 °	37.042960 °
				-120.436517 °	-120.436517 °
DWR ID	DWR_NA0010_13_f_2016_4				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on waterward slope.					

No Photos

LM Start	0.91	Rating **	M	Issue No.	5
LM End	0.91	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.044855 °	37.044855 °
				-120.434106 °	-120.434106 °
DWR ID	DWR_NA0010_13_s_2014_5				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on waterward slope.					

Photo 1 of 3 : FA_2016_NA0010_131_5_20161007_00001.jpg



Looking at unauthorized ramp on waterward slope. (Fall 2014)

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.91	Rating **	M	Issue No.	5 (cont)	
LM End	0.91	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.044855 °		37.044855 °
				-120.434106 °		-120.434106 °
DWR ID	DWR_NA0010_13_s_ 2014_5					
Comment Code						
RA : Ramp						
Inspector Comment						
Unauthorized ramp on waterward slope.						

Photo 2 of 3 : FA_2016_NA0010_131_5_20161007_00002.jpg



Looking west at unauthorized ramp on waterward slope.

LM Start	0.91	Rating **	M	Issue No.	5 (cont)
LM End	0.91	Issue Type +	En	Location *	WS

Photo 3 of 3 : FA_2016_NA0010_131_5_20161007_00003.jpg



Looking east at unauthorized ramp on waterward slope.

LM Start	1.14	Rating **	U	Issue No.	6
LM End	1.14	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.045541 °	37.045541 °
				-120.430014 °	-120.430014 °
DWR ID	DWR_NA0010_13_f_ 2015_6				
Comment Code					
WL : Wall					
Inspector Comment					
Landowner built sand dam on upstream side of drop structure.					

Photo 1 of 6 : FA_2016_NA0010_131_6_20161007_00004.jpg



Looking overview of sand dam.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	6 (cont)	
LM End	1.14	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.045541 °		37.045541 °
				-120.430014 °		-120.430014 °
DWR ID	DWR_NA0010_13_f_2015_6					
Comment Code						
WL : Wall						
Inspector Comment						
Landowner built sand dam on upstream side of drop structure.						

Photo 2 of 6 : FA_2016_NA0010_131_6_20161110_00015.jpg



Looking west at upstream side of sand dam on the southside of the Drop structure.

LM Start	1.14	Rating **	U	Issue No.	6 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 3 of 6 : FA_2016_NA0010_131_6_20161007_00005.jpg



Looking south at downstream side of structure.

LM Start	1.14	Rating **	U	Issue No.	6 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 4 of 6 : FA_2016_NA0010_131_6_20161007_00006.jpg



Looking at corrugated pipe on north end on upstream side of structure.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	6 (cont)	
LM End	1.14	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.045541 °	37.045541 °	
				-120.430014 °	-120.430014 °	
DWR ID	DWR_NA0010_13_f_2015_6					
Comment Code						
WL : Wall						
Inspector Comment						
Landowner built sand dam on upstream side of drop structure.						

LM Start	1.14	Rating **	U	Issue No.	6 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 5 of 6 : FA_2016_NA0010_131_6_20161007_00007.jpg



Looking at corrugated pipe on north end on downstream side of structure.

Photo 6 of 6 : FA_2016_NA0010_131_6_20161007_00008.jpg



Looking at corrugated pipe on south end on downstream side of structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	8
LM End	1.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.045872 °	37.045872 °
				-120.430070 °	-120.430070 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39877
DS_ID:19727
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears abandoned and if so should be done so properly. Pipe filled with soil on WS at outlet. Actuator missing from slide gate on WS shoulder.
FIELD_STRUCT_DESC: 1 of 2: 36-inch C.M. stormdrain pipe through the levee, 12.3 feet below the crown. Slide gate inside 48-inch C.M. pipe riser in waterward slope. Concrete distribution box (6x12-foot) on landward side. (USACE-1967). 7'X14' concrete outlet structure on WS toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.14).
FS Date: 3/27/2014

LM Start	1.14	Rating **	M	Issue No.	8 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39877_59385.jpg



Slide gate in CMP riser on WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_39877_59384.jpg



Concrete box on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	7
LM End	1.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.045870 °	37.045870 °
				-120.430080 °	-120.430080 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39524 DS_ID:19908 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No lid on riser at WS shoulder could be safety issue. FIELD_STRUCT_DESC: 2 of 2: 36-inch C.M. stormdrain pipe through the levee, 12.3 feet below the crown. Slide gate inside 48-inch C.M. pipe riser in waterward slope. Concrete distribution box (6x12-foot) on landward side. 7'X14' concrete distribution box on WS toe (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.14). FS Date: 3/27/2014					

LM Start	1.14	Rating **	M	Issue No.	7 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39524_59390.jpg



Slide gate in CMP riser without at lid on WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_39524_59392.jpg



Concrete distribution box on WS 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 14 Ash Slough			Left	1.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/17/2016 - 5/17/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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:

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- 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.

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<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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	2
LM End	1.26	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.032379 °	37.045404 °
				-120.441265 °	-120.427749 °
DWR ID	DWR_NA0010_14_f_2012_2				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Control vegetation on levee crown.					

Photo 1 of 1 : FA_2016_NA0010_132_2_20161110_00006.jpg



Looking at typical view of levee crown.

LM Start	1.15	Rating **	M	Issue No.	80
LM End	1.15	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.044906 °	37.044906 °
				-120.429695 °	-120.429695 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39526 DS_ID:19909 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Lid should be installed on CMP riser on WS slope, could be a safety hazard. Also 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. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 10-feet below crown. Slide gate inside 48-inch CM pipe riser in waterward slope. Concrete distribution box (6'X7') at toe of waterward slope. Slots for wooden flashboard on waterward side of box. 7'X9' Concrete distribution box on the landward side 20-feet from toe. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.15). FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_FA_2016_39526_59398.jpg



Slide gate in CMP riser and outlet/inlet structure visible in background at WS 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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Levee Inspection Report By Mile - Fall 2016


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	10/18/2016 10/18/2016	Richard Willoughby

Photo 2 of 2 : UCIP_FA_2016_39526_59396.jpg



concrete inlet/outlet at WS toe.

Photo 1 of 1 : FA_2016_NA0010_132_79_20161007_00002.jpg



Looking at typical view of rodent holes on landward slope.

* 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 15 Berenda Slough			Right	2.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/17/2016 - 5/17/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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

Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	13
LM End	1.00	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.996566 °	36.996566 °
				-120.392280 °	-120.392280 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39527					
DS_ID:19912					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 8.5 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.01).					
FS Date: 3/27/2014					

LM Start	1.00	Rating **	M	Issue No.	13 (cont)
LM End	1.00	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_FA_2016_39527_59452.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39527_59453.jpg



Flapgate on concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	12
LM End	1.53	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.996582 °	36.996582 °
				-120.382757 °	-120.382757 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32840 DS_ID:19913 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excessive vegetation at inlet on LS toe. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through the levee, 8.9 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.53). FS Date: 3/27/2014					

LM Start	1.53	Rating **	M	Issue No.	12 (cont)
LM End	1.53	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_FA_2016_32840_59456.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_32840_59457.jpg



Flapgate on concrete headwall at WS 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 16 Berenda Slough			Left	1.96
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/18/2016 - 5/18/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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Lower San Joaquin Levee District

Looking at typical view of levee crown.

Looking at several rodent holes on landward slope.

Looking at several rodent holes and moles holes on levee crown.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	93
LM End	1.44	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995473 °	36.995473 °
				-120.382872 °	-120.382872 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39529 DS_ID:19915 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation buildup at landside toe-- recommend clearing. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through levee, 8.5 feet below crown. Concrete "U" headwall on waterward end. Two concrete cutoff walls. Flap gate on waterward side. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.46). FS Date: 4/1/2014 8:12:00 AM					

Photo 1 of 2 : UCIP_FA_2016_39529_59681.jpg



Concrete headwall on WS toe with channel.

LM Start	1.44	Rating **	M	Issue No.	93 (cont)
LM End	1.44	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_39529_59680.jpg



Flapgate on headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.68	Rating **	M	Issue No.	4
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995503 °	36.995503 °
				-120.378579 °	-120.378579 °
DWR ID	DWR_NA0010_16_s_2014_4				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.77	Rating **	U	Issue No.	2
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995487 °	36.995487 °
				-120.377054 °	-120.377054 °
DWR ID	DWR_NA0010_16_f_2014_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landward slope.					

Photo 1 of 2 : FA_2016_NA0010_134_2_20161007_00001.jpg



Looking at large rodent holes on landward slope.

LM Start	1.77	Rating **	U	Issue No.	2 (cont)
LM End	1.77	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_134_2_20161007_00002.jpg



Looking southwest at several rodent holes on landward slope.

* 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 17 Chowchilla Canal Bypass			Right	16.09
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/18/2016 - 5/18/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	11
LM End	2.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976445 °	36.952745 °
				-120.374700 °	-120.349100 °
DWR ID	DWR_NA0010_17_f_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Dense vegetation (tumble weeds) on levee slope.					

Photo 1 of 1 : FA_2016_NA0010_135_11_20161024_00025.jpg



Looking south at typical view of dense veg on landward slope.

LM Start	0.00	Rating **	U	Issue No.	12
LM End	2.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976445 °	36.951928 °
				-120.374700 °	-120.348605 °
DWR ID	DWR_NA0010_17_f_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Dense vegetation (Tumble weeds) on levee slope.					

Photo 1 of 1 : FA_2016_NA0010_135_12_20161024_00026.jpg



Looking at typical view of dense veg on waterward slope.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	13
LM End	2.57	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.952254 °	36.952254 °
				-120.348804 °	-120.348804 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39531
DS_ID:19916
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 14.6 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.58).
FS Date: 4/1/2014

LM Start	2.57	Rating **	M	Issue No.	13 (cont)
LM End	2.57	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39531_59710.jpg



Concrete headwall at channel on WS toe.

Photo 2 of 2 : UCIP_FA_2016_39531_59711.jpg



Flapgate on Concrete headwall at WS 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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Lower San Joaquin Levee District

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	7.27	Rating **	M	Issue No.	5
LM End	7.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.887869 °	36.886341 °
				-120.321697 °	-120.320940 °
DWR ID	DWR_NA0010_17_s_2012_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Notice several rodent holes within this reach.					

Photo 1 of 1 : FA_2016_NA0010_135_5_20161007_00004.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	9.88	Rating **	M	Issue No.	14
LM End	9.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.850703 °	36.850703 °
				-120.314154 °	-120.314154 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39532					
DS_ID:19917					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15-feet below the crown. Concrete "U" headwall on the waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.89).					
FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39532_59723.jpg



Concrete headwall and channel on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	9.88	Rating **	M	Issue No.	14 (cont)	
LM End	9.88	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.850703 °		36.850703 °
				-120.314154 °		-120.314154 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39532 DS_ID:19917 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15-feet below the crown. Concrete "U" headwall on the waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.89). FS Date: 4/1/2014						

Photo 2 of 2 : UCIP_FA_2016_39532_59724.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	12.34	Rating **	M	Issue No.	3
LM End	12.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.820558 °	36.820000 °
				-120.300616 °	-120.300831 °
DWR ID	DWR_NA0010_17_s_2014_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes with this reach.					

Photo 1 of 2 : FA_2016_NA0010_135_3_20161007_00001.jpg



Looking at typical view of rodent holes on landward slope. 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	12.34	Rating **	M	Issue No.	3 (cont)	
LM End	12.38	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			36.820558 °		36.820000 °
				-120.300616 °		-120.300831 °
DWR ID	DWR_NA0010_17_s_2014_3					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Noted several rodent holes with this reach.						

Photo 2 of 2 : FA_2016_NA0010_135_3_20161007_00002.jpg



Looking at several rodent holes on landward slope. Spring 2015

LM Start	13.29	Rating **	M	Issue No.	15
LM End	13.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.807509 °	36.807509 °
				-120.306231 °	-120.306231 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39533 DS_ID:19918 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some vegetation buildup at inlet--recommend clearing. FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15.3 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.30). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39533_59727.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	13.29	Rating **	M	Issue No.	15 (cont)
LM End	13.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.807509 °	36.807509 °
				-120.306231 °	-120.306231 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39533 DS_ID:19918 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some vegetation buildup at inlet--recommend clearing. FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15.3 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.30). FS Date: 4/1/2014					

Photo 2 of 2 : UCIP_FA_2016_39533_59726.jpg



Concrete headwall on LS toe.

LM Start	14.38	Rating **	M	Issue No.	17
LM End	14.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.793318 °	36.793318 °
				-120.302138 °	-120.302138 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41406					
DS_ID:24850					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: Gas line through the levee at an unknown depth. Gas line markers on both shoulders.					
FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_41406_71490.jpg



Gasline marker on WS slope..

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	14.38	Rating **	M	Issue No.	17 (cont)	
LM End	14.38	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.793318 °		36.793318 °
				-120.302138 °		-120.302138 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41406						
DS_ID:24850						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: Gas line through the levee at an unknown depth. Gas line markers on both shoulders.						
FS Date: 4/1/2014						

Photo 2 of 2 : UCIP_FA_2016_41406_71489.jpg



Gasline marker on LS shoulder.

LM Start	14.39	Rating **	M	Issue No.	18
LM End	14.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.793195 °	36.793195 °
				-120.302028 °	-120.302028 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50067 DS_ID:19562 EP_NO: 18568 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 7/20/2016 Marker visible on LS. WS marker missing. (DWR UCIP - omagana)4/01/2014 Need to contact owner to confirm and obtain status of crossing. Markers misleading--unable to confirm if markers correspond to this crossing. Need markers at levee. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 30-inch steel gas pipeline through the levee, approximately 60 feet below the crown. Location markers are visible on the waterside (WS) and landside (LS). (Permit No. 18568, 2010 - Gill Ranch Storage LLC) FS Date: 7/20/2016					

Photo 1 of 2 : UCIP_FA_2016_50067_59742.jpg



Gasline marker and concrete sump 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	14.39	Rating **	M	Issue No.	18 (cont)	
LM End	14.39	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.793195 °	36.793195 °	
				-120.302028 °	-120.302028 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50067						
DS_ID:19562						
EP_NO: 18568						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: 7/20/2016 Marker visible on LS. WS marker missing. (DWR UCIP - omagana)4/01/2014 Need to contact owner to confirm and obtain status of crossing. Markers misleading--unable to confirm if markers correspond to this crossing. Need markers at levee. (DWR UCIP - omagana)						
FIELD_STRUCT_DESC: 30-inch steel gas pipeline through the levee, approximately 60 feet below the crown. Location markers are visible on the waterside (WS) and landside (LS). (Permit No. 18568, 2010 - Gill Ranch Storage LLC)						
FS Date: 7/20/2016						

Photo 2 of 2 : UCIP_FA_2016_50067_59741.jpg



Gasline marker visible in channell off WS toe.

LM Start	14.69	Rating **	M	Issue No.	16
LM End	14.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.789066 °	36.789066 °
				-120.300644 °	-120.300644 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39535					
DS_ID:19920					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Heavy vegetation buildup at LS toe--recommend clearing.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 14.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.69).					
FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39535_59745.jpg



Concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	10/19/2016 10/19/2016	Richard Willoughby

LM Start	14.69	Rating **	M	Issue No.	16 (cont)
LM End	14.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.789066 °	36.789066 °
				-120.300644 °	-120.300644 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39535 DS_ID:19920 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy vegetation buildup at LS toe--recommend clearing. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 14.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.69). FS Date: 4/1/2014					

Photo 2 of 2 : UCIP_FA_2016_39535_59747.jpg



Flapgate on Concrete headwall at WS 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 18 Chowchilla Canal Bypass			Left	15.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/18/2016 - 5/18/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	10
LM End	13.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.974113 °	36.796253 °
				-120.363258 °	-120.308384 °
DWR ID	DWR_NA0010_18_f_2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control tumble weeds on levee shoulder and slope.					

Photo 1 of 1 : FA_2016_NA0010_137_10_20161024_00019.jpg



Looking downstream at typical view of dense veg on landward and waterward shoulders.

LM Start	1.44	Rating **	M	Issue No.	7
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.956163 °	36.956163 °
				-120.353672 °	-120.353672 °
DWR ID	DWR_NA0010_18_s_2014_7				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several noted on landward slope and on levee crown.					

Photo 1 of 1 : FA_2016_NA0010_137_7_20161007_00003.jpg



Looking at typical view of rodent holes within this section on landward slope.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.52	Rating **	C	Issue No.	12
LM End	1.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.955081 °	36.955081 °
				-120.353025 °	-120.353025 °
DWR ID	DWR_NA0010_18_s_2016_12				
Comment Code					
FE : Fence					
Inspector Comment					
Animal pen at landward toe.					

No Photos

LM Start	1.53	Rating **	C	Issue No.	3
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.954907 °	36.954907 °
				-120.352920 °	-120.352920 °
DWR ID	DWR_NA0010_18_s_2016_3				
Comment Code					
FW : Firewood					
Inspector Comment					
Firewood stock pile at landward toe.					

No Photos

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

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.69	Rating **	M	Issue No.	14
LM End	1.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.952821 °	36.952821 °
				-120.351597 °	-120.351597 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39503
DS_ID:19925
EP_NO: 6603
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner. Appears abandoned--good candidate for video or pressure inspection. This crossings is the same age as the pipe that has failed immediately upstream.
FIELD_STRUCT_DESC: 15-inch steel pipe through the levee, 4.3 feet below the crown. Electrical conduit through the levee, 4.3 feet below the crown. Siphon breaker on landward shoulder. 36-inch concrete standpipe on landward berm. Inlet facility on waterward bank consisting of pump, 42-inch concrete standpipe, and 20-inch concrete channel intake pipe with cutoff wall. (Permit No. 6603-1970)
FS Date: 4/10/2014

LM Start	1.69	Rating **	M	Issue No.	14 (cont)
LM End	1.69	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_39503_66660.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_39503_66657.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.25	Rating **	M	Issue No.	16
LM End	2.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.945577°	36.945577°
				-120.347140°	-120.347140°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49968 DS_ID:19926 EP_NO: 6603 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/20/2016 High burrow activity. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the WS and LS slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)4/10/2014 Subsidence present along pipe alignment on landward side. Modified crossing--worked done on landward side. Need to contact owner to determine permit authorizing work. Dense vegetation on landward side--tall grass. Pipe wall cut and new pipe sleeved on landward side. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 15-inch steel pipe and electrical conduit through the levee, 3.7 feet below the crown. Siphon breaker located on landside (LS) shoulder. 36-inch concrete standpipe is located on the LS berm. Inlet facility located on the WS bank consisting of pump, 42-inch concrete standpipe, and 20-inch concrete channel intake pipe with cutoff wall. (Permit No. 6603, 1970 - R. Costales) [Additional Reference(s): DWR Levee Log, 2002] FS Date: 7/20/2016					

Photo 1 of 2 : UCIP_FA_2016_49968_60558.jpg



Overview of LS--site modified.

LM Start	2.25	Rating **	M	Issue No.	16 (cont)
LM End	2.25	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_49968_60559.jpg



View of levee crown at crossing.

* 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	6.52	Rating **	M	Issue No.	9
LM End	6.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.886767 °	36.886767 °
				-120.323482 °	-120.323482 °
DWR ID	DWR_NA0010_18_f_2014_9				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.54	Rating **	M	Issue No.	13
LM End	7.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.872431 °	36.872431 °
				-120.319415 °	-120.319415 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36843					
DS_ID:19930					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: CMP crossing is distorted on waterward side. Debris scattered on landward side. Sediment deposit inside crossing visible from landward side. Recommend removing debris from landward side.					
FIELD_STRUCT_DESC: 42-inch concrete pipe through the levee, 19.0 feet below the crown. Gate structure on waterward shoulder. Pipe section on waterward side is corrugated metal and pipe section on lanward side is reinforced concrete. (Permit No. 13548-1984, New Stone Water District)					
FS Date: 4/10/2014					

Photo 1 of 2 : UCIP_FA_2016_36843_67202.jpg



Overview of levee crown at crossing--slide gate inside concrete box located on waterward shoulder.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	7.54	Rating **	M	Issue No.	13 (cont)	
LM End	7.54	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.872431 °	36.872431 °	
				-120.319415 °	-120.319415 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36843						
DS_ID:19930						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: CMP crossing is distorted on waterward side. Debris scattered on landward side. Sediment deposit inside crossing visible from landward side. Recommend removing debris from landward side.						
FIELD_STRUCT_DESC: 42-inch concrete pipe through the levee, 19.0 feet below the crown. Gate structure on waterward shoulder. Pipe section on waterward side is corrugated metal and pipe section on lanward side is reinforced concrete. (Permit No. 13548-1984, New Stone Water District)						
FS Date: 4/10/2014						

Photo 2 of 2 : UCIP_FA_2016_36843_67205.jpg



Pipe section distorted on waterward side.

LM Start	13.59	Rating **	M	Issue No.	15
LM End	13.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.792684 °	36.792684 °
				-120.304542 °	-120.304542 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39505					
DS_ID:19932					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Multiple markers visible along waterward and					
landward sides unable to confirm how many crossings go through					
levee. Need to contact owner to obtain additional details on crossings.					
FIELD_STRUCT_DESC: 6-inch gas line through the levee. Extends					
underneath the channel.					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_39505_67226.jpg



Markers visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	15 (cont)	
LM End	13.59	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.792684 °	36.792684 °	
				-120.304542 °	-120.304542 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39505						
DS_ID:19932						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Multiple markers visible along waterward and						
landward sides unable to confirm how many crossings go through						
levee. Need to contact owner to obtain additional details on crossings.						
FIELD_STRUCT_DESC: 6-inch gas line through the levee. Extends						
underneath the channel.						
FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_FA_2016_39505_67225.jpg



View of levee crown at crossing.

* 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 22A East Side Canal			Left	5.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/17/2016 - 5/17/2016		10/18/2016 - 10/18/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.10	Rating **	M	Issue No.	263
LM End	0.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.207039 °	37.207039 °
				-120.696255 °	-120.696255 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49959
DS_ID:19933
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/19/2016 Gate inside riser appears operable--riser lid damage. Crossing is not visible on LS due to dense vegetation. Recommend clearing dense vegetation along WS and LS slope and repairing riser cover. (DWR UCIP - omagana)04/15/2014 No actuator wheel on slide gate at WS shoulder. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.8 feet below the crown. Slide gate inside 36-inch corrugated metal pipe (CMP) riser located on the the waterside (WS) slope. Concrete "U" headwalls on both WS and landside (LS) ends.
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 0.10), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969].
FS Date: 7/19/2016

LM Start	0.10	Rating **	M	Issue No.	263 (cont)
LM End	0.10	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_49959_61060.jpg



PVC pipes sticking up out of channel likely indicate pipe location on WS toe.

Photo 2 of 2 : UCIP_FA_2016_49959_61061.jpg



Concrete headwall at toe of LS slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.53	Rating **	U	Issue No.	21
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.213006 °	37.213006 °
				-120.698019 °	-120.698019 °
DWR ID	DWR_NA0010_22A_f _ 2014_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope.					

LM Start	0.53	Rating **	U	Issue No.	21 (cont)
LM End	0.53	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_NA0010_138_21_20161007_00008.jpg



Looking at dense vegetation on landward slope. Fall 2015

Photo 2 of 2 : FA_2016_NA0010_138_21_20161007_00009.jpg



Looking south at dense vegetation on landward slope. Spring 2015

LM Start	0.87	Rating **	M	Issue No.	23
LM End	0.87	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.217802 °	37.217802 °
				-120.697416 °	-120.697416 °
DWR ID	DWR_NA0010_22A_f_2014_23				
Comment Code					
SI : Sign					
Inspector Comment					
Pulley on waterward shouder without board permit.					

Photo 1 of 1 : FA_2016_NA0010_138_23_20161007_00010.jpg



Looking south at pulley on waterward shoulder.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.57	Rating **	M	Issue No.	261
LM End	1.57	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.227588 °	37.227588 °
				-120.700945 °	-120.700945 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33733 DS_ID:19936 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate rusted and does not function. Headwall buried at LS toe. Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch CM irrigation pipe through levee, 7.0-feet below the crown. Slide gate inside 36-inch CM pipe riser in the waterward slope. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.57). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_FA_2016_33733_61030.jpg



Pipe and CMP riser with slide gate visible on WS slope.

LM Start	1.57	Rating **	M	Issue No.	261 (cont)
LM End	1.57	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_33733_61029.jpg



Inside CMP riser on WS shoulder.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.65	Rating **	U	Issue No.	13
LM End	2.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.242572 °	37.242572 °
				-120.706472 °	-120.706472 °
DWR ID	DWR_NA0010_22A_f _ 2016_13				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion caused by animal traffic.					

Photo 1 of 1 : FA_2016_NA0010_138_13_20161024_00024.jpg



Looking at animal erosion on waterwater slope.

LM Start	2.71	Rating **	M	Issue No.	260
LM End	2.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243501 °	37.243501 °
				-120.706773 °	-120.706773 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33732 DS_ID:19937 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate does not function and should be repaired. Headwall at LS toe not found. FIELD_STRUCT_DESC: 24-inch CM irrigation pipe through the levee, 7.5-feet below the crown. Slide gate inside 36-inch CM pipe riser in the waterward slope. Concrete "U" headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.72). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_FA_2016_33732_61026.jpg



Slidegate in CMP riser on WS shoulder. (Note: actuator does not work).

* 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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Lower San Joaquin Levee District

No Photos

Looking downstream at animal erosion on waterward slope.

No Photos

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Lower San Joaquin Levee District

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Lower San Joaquin Levee District

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	5.05	Rating **	M	Issue No.	4 (cont)	
LM End	5.05	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.267516 °		37.267516 °
				-120.736401 °		-120.736401 °
DWR ID	DWR_NA0010_22A_f_2013_4					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion caused by animal traffic.						

Photo 2 of 2 : FA_2016_NA0010_138_4_20161007_00002.jpg



Looking southeast at livestock erosion on waterward toe.

LM Start	5.14	Rating **	M	Issue No.	6
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.268492 °	37.269133 °
				-120.737493 °	-120.738208 °
DWR ID	DWR_NA0010_22A_s_2012_6				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					
Slope damage caused by livestock on waterside toe.					

Photo 1 of 2 : FA_2016_NA0010_138_6_20161007_00003.jpg



Looking southeast at livestock erosion on waterward toe.

LM Start	5.14	Rating **	M	Issue No.	6 (cont)
LM End	5.20	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_NA0010_138_6_20161007_00004.jpg



Looking northwest at livestock erosion along waterside slope and 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	5.48	Rating **	M	Issue No.	262
LM End	5.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.272079 °	37.272079 °
				-120.741575 °	-120.741575 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39536 DS_ID:19938 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Pipe silted in on LS toe. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 48-inch CM irrigation pipe through the levee, 10 feet below the crown. Slide gate inside 60-inch CM pipe riser in the waterward slope. Concrete headwall on the landward end. Waterward end capped with 1/4-inch steel plate. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.48). FS Date: 4/15/2014					

LM Start	5.48	Rating **	M	Issue No.	262 (cont)
LM End	5.48	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_39536_61022.jpg



Slidegate inside riser on WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_39536_61021.jpg



Inside riser on WS shoulder.

* 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 23 San Joaquin River			Right	10.24
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/18/2016 - 5/18/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.21	Rating **	M	Issue No.	34
LM End	0.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.772713 °	36.772713 °
				-120.280670 °	-120.280670 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39537 DS_ID:19945 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excessive vegetation at inlet--recommend clearing. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 13.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.21). Cleaned and rehabilitated under Permit No. 13085 (1981). FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_FA_2016_39537_59860.jpg



Concrete headwall on WS toe at channel.

LM Start	0.21	Rating **	M	Issue No.	34 (cont)
LM End	0.21	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_39537_59859.jpg



Flapgate on Concrete headwall at WS 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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Lower San Joaquin Levee District

Lower San Joaquin Levee District

Page 3 of 20

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.54	Rating **	U	Issue No.	24 (cont)	
LM End	1.54	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.771922 °		36.771922 °
				-120.259321 °		-120.259321 °
DWR ID	DWR_NA0010_23_f_2015_24					
Comment Code						
DT : Ditch						
Inspector Comment						
Landowner digging at landward berm.						

Photo 2 of 3 : FA_2016_NA0010_139_24_20161007_00019.jpg



Looking southeast at large pot hole on landward berm.

LM Start	1.54	Rating **	U	Issue No.	24 (cont)
LM End	1.54	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_139_24_20161007_00020.jpg



Looking southeast at trench on landward berm.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.63	Rating **	M	Issue No.	35
LM End	1.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.771408 °	36.771408 °
				-120.257899 °	-120.257899 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39538 DS_ID:19948 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done properly. Discharge channel is blocked by sand and soil making drain ineffective. Soil buildup at inlet on LS toe. Need to contact owner. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 11.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_FA_2016_39538_59855.jpg



Concrete headwall on WS toe.

LM Start	1.63	Rating **	M	Issue No.	35 (cont)
LM End	1.63	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39538_59857.jpg



Flapgate on Concrete headwall at WS 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	16
LM End	2.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.775507 °	36.774423 °
				-120.251672 °	-120.246993 °
DWR ID	DWR_NA0010_23_s_ 2013_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Several damaged sites within this reach. Damage caused by vehicle traffic. At. LM. 2.12, 2.21, 2.37, & 2.41					

Photo 1 of 1 : FA_2016_NA0010_139_16_20161007_00017.jpg



Looking west at one of several slope damaged cause by vehicle traffic.

LM Start	2.83	Rating **	U	Issue No.	23
LM End	3.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.771560 °	36.771554 °
				-120.241248 °	-120.237788 °
DWR ID	DWR_NA0010_23_f_ 2016_23				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Dense veg (Tumble weeds) on levee slope.					

Photo 1 of 2 : FA_2016_NA0010_139_23_20161024_00053.jpg



Looking downstream at dense veg on landward slope.

LM Start	2.83	Rating **	U	Issue No.	23 (cont)
LM End	3.02	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_139_23_20161024_00054.jpg



Looking upstream at dense veg on landward slope.

* 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

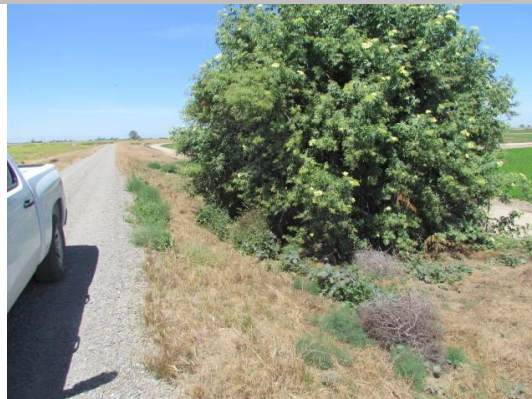
Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.85	Rating **	U	Issue No.	15
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.771537 °	36.771537 °
				-120.240917 °	-120.240917 °
DWR ID	DWR_NA0010_23_s_2012_15				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry bush on landward toe.					

LM Start	2.85	Rating **	U	Issue No.	15 (cont)
LM End	2.85	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : FA_2016_NA0010_139_15_20161007_00014.jpg



Looking west at elderberry at landward toe. (Spring 2016)

Photo 2 of 3 : FA_2016_NA0010_139_15_20161007_00015.jpg



Looking east at elderberry at landward toe. (Spring 2015)

LM Start	2.85	Rating **	U	Issue No.	15 (cont)
LM End	2.85	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_139_15_20161007_00016.jpg



Looking east at elderberry on landside toe and berm. (Fall 2014)

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	3.30	Rating **	U	Issue No.	3
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774403 °	36.774403 °
				-120.234705 °	-120.234705 °
DWR ID	DWR_NA0010_23_s_ 2012_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landward toe.					

LM Start	3.30	Rating **	U	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : FA_2016_NA0010_139_3_20161007_00002.jpg



Looking North at elderberry on landward toe and berm. (Spring 2016)

Photo 2 of 4 : FA_2016_NA0010_139_3_20161007_00003.jpg



Looking north at elderberry on landward toe and berm. (Spring 2015)

LM Start	3.30	Rating **	U	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2016_NA0010_139_3_20161007_00004.jpg



Looking north at elderberry on landside toe and berm. (Fall 2014)

* 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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Lower San Joaquin Levee District

Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	4.45	Rating **	M	Issue No.	11 (cont)	
LM End	4.45	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			36.784523 °		36.784523 °
				-120.223292 °		-120.223292 °
DWR ID	DWR_NA0010_23_s_2012_11					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						
Control growth of elderberry on landward toe and berm.						

Photo 2 of 2 : FA_2016_NA0010_139_11_20161007_00013.jpg



Looking northeast at elderberry on landside toe and berm.

LM Start	4.71	Rating **	M	Issue No.	37
LM End	4.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.787713 °	36.787713 °
				-120.221399 °	-120.221399 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41827					
DS_ID:19952					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Verify abandonment with gas company. Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.					
FIELD_STRUCT_DESC: 4-inch gas line through the levee, 6.0 feet below the crown. Gas line gaging area and compressor station in the channel 50 feet from the waterward toe.					
FS Date: 4/3/2014					

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	4.85	Rating **	M	Issue No.	36
LM End	4.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.789550 °	36.789550 °
				-120.220367 °	-120.220367 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39540					
DS_ID:19953					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Heavy vegetation at inlet and outlet--recommend clearing.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 10.7 feet below the crown. Concrete "U" headwall on both ends. 4.5'X7' Concrete riser with slide gate on the waterward slope. Inlet channel cobble revetted 15.0 feet long.					
FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_FA_2016_39540_59848.jpg



Slide gate in concrete riser on WS shoulder.

LM Start	4.85	Rating **	M	Issue No.	36 (cont)
LM End	4.85	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_39540_59847.jpg



Heavy vegetation in outlet/channel on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	5.68	Rating **	U	Issue No.	5
LM End	5.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.791981 °	36.791981 °
				-120.206274 °	-120.206274 °
DWR ID	DWR_NA0010_23_s_2012_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes in this area.					

Photo 1 of 1 : FA_2016_NA0010_139_5_20161007_00006.jpg



Looking at several rodent holes on landside slope.

LM Start	5.68	Rating **	M	Issue No.	30
LM End	5.68	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.791936 °	36.791936 °
				-120.206226 °	-120.206226 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39542 DS_ID:19954 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch square R.C.B.C through the levee 9.0 feet below the crown. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Outlet channel cobble revetted 5.0 feet long. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.71). FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_FA_2016_39542_59830.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	5.68	Rating **	M	Issue No.	30 (cont)	
LM End	5.68	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.791936 °	36.791936 °	
				-120.206226 °	-120.206226 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39542						
DS_ID:19954						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 36-inch square R.C.B.C through the levee 9.0 feet below the crown. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Outlet channel cobble revetted 5.0 feet long. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.71).						
FS Date: 4/3/2014						

Photo 2 of 2 : UCIP_FA_2016_39542_59829.jpg



Flapgate on Concrete headwall on WS toe.

LM Start	7.06	Rating **	M	Issue No.	31
LM End	7.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.778783 °	36.778783 °
				-120.192447 °	-120.192447 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39543 DS_ID:19939 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 8.5 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_FA_2016_39543_59826.jpg



Concrete headwall on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	7.06	Rating **	M	Issue No.	31 (cont)	
LM End	7.06	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.778783 °	36.778783 °	
				-120.192447 °	-120.192447 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39543 DS_ID:19939 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 8.5 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. FS Date: 4/3/2014						

Photo 2 of 2 : UCIP_FA_2016_39543_59828.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	8.32	Rating **	M	Issue No.	32
LM End	8.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.792476 °	36.792476 °
				-120.181255 °	-120.181255 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39544					
DS_ID:19940					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some sediment buildup at inlet at LS toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 5.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwalls on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.33).					
FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_FA_2016_39544_59823.jpg



Flapgate on WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	8.32	Rating **	M	Issue No.	32 (cont)	
LM End	8.32	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.792476 °	36.792476 °	
				-120.181255 °	-120.181255 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39544						
DS_ID:19940						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Some sediment buildup at inlet at LS toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 5.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwalls on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.33).						
FS Date: 4/3/2014						

Photo 2 of 2 : UCIP_FA_2016_39544_59821.jpg



cocrete headwall at drainage ditch on WS toe.

LM Start	8.52	Rating **	M	Issue No.	33
LM End	8.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.794108 °	36.794108 °
				-120.178171 °	-120.178171 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39545					
DS_ID:19941					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 5.6 feet below the crown. Concrete "U" headwall on the waterward end.					
Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.54).					
FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_FA_2016_39545_59817.jpg



Concrete headwall on WS 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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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

Photo 2 of 2 : UCIP_FA_2016_39545_59819.jpg



Flapgate on Concrete headwall at WS toe.

Photo 1 of 1 : FA_2016_NA0010_139_25_20161024_00055.jpg



Looking at typical view of rodent hole on waterward shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	38
LM End	9.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.807768 °	36.807768 °
				-120.168848 °	-120.168848 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49971 DS_ID:19943 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/20/2016 No change--same as previous inspection. (DWR UCIP - omagana)4/03/2014 Slide gate not functional. Slide gate channels heavily corroded (exfoliated) and likely impact functionality/structural integrity of gate. (DWR UCIP - omagana) FIELD_STRUCT_DESC: [Gravelly Ford Canal Irrigation Structure] 1 of 2: 5.25-foot by 4-foot reinforced concrete box culvert (RCBC) through the levee, 10 feet below the crown. Concrete "U" headwall on the waterside (WS) end. Gear pedestal slide gate with wall bracket is located on the WS headwall. Concrete "U" headwall is located on the landside (LS) end. Outlet channel cobble revetted 10 feet long. Guard rails are located on both shoulders. Slide gates are located on the WS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manuals: Unit No. 601, 1967, (HLM 9.76), Unit No. 601 Part I, 1967 (Amended in 1978), Unit No. 601 Part II, 1969, and Unit No. 601 Part III, 1969] FS Date: 7/20/2016					

LM Start	9.75	Rating **	U	Issue No.	38 (cont)
LM End	9.75	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_49971_59810.jpg



Slide gate actuator visible on WS shoulder with concrete headwall.

Photo 2 of 2 : UCIP_FA_2016_49971_59809.jpg



Slide gate on concrete headwall at WS 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	39
LM End	9.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.807777 °	36.807777 °
				-120.168843 °	-120.168843 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49972
DS_ID:19980
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/20/2016 No change--same as previous inspection.
(DWR UCIP - omagana)4/03/2014 Slide gate not functional. Slide gate channels heavily corroded (exfoliated) and likely impact functionality/structural integrity of gate. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: [Gravelly Ford Canal Irrigation Structure] 2 of 2: 48-inch by 63-inch reinforced concrete box culvert (RCBC) through the levee, 10 feet below the crown. Concrete "U" headwall is located on the waterside (WS) end. Gear pedestal slide gate with wall bracket is located on the WS headwall. Concrete "U" headwall is located on the landside (LS) end. Outlet channel cobble revetted 10 feet long. Guardrails are located on both shoulders. [Additional Reference(s): DWR Levee Log, 2002]
FS Date: 7/20/2016

LM Start	9.75	Rating **	U	Issue No.	39 (cont)
LM End	9.75	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_49972_59802.jpg



Slide gate actuators on Concrete headwall at WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_49972_59801.jpg



Slide gates on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 24 San Joaquin River			Left	8.36
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/18/2016 - 5/18/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.06	Rating **	M	Issue No.	47
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.772328 °	36.772328 °
				-120.285117 °	-120.285117 °
DWR ID	DWR_NA0010_24_s_2014_47				
Comment Code					
MA : Material					
Inspector Comment					
District constructed a berm on waterward slope. Berm is being used for staging of earthen material.					

Photo 1 of 2 : FA_2016_NA0010_140_47_20161007_00006.jpg



Looking northeast at berm on waterward slope.

LM Start	0.06	Rating **	M	Issue No.	47 (cont)
LM End	0.06	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_140_47_20161007_00007.jpg



Looking north at berm on waterward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.50	Rating **	M	Issue No.	268
LM End	0.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.766872 °	36.766872 °
				-120.283212 °	-120.283212 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33264					
DS_ID:19955					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No access available to confirm condition of landward side headwall. Recommend clearing debris along fence. Surface erosion near concrete headwall on landward side was present.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.5 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterward end.					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_33264_60059.jpg



View of waterward side.

LM Start	0.50	Rating **	M	Issue No.	268 (cont)
LM End	0.50	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_33264_60057.jpg



Square gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.82	Rating **	M	Issue No.	6
LM End	0.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.766775 °	36.766775 °
				-120.278757 °	-120.278757 °
DWR ID	DWR_NA0010_24_s_2013_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes within this section.					

Photo 1 of 1 : FA_2016_NA0010_140_6_20161007_00003.jpg



Looking at several rodent holes on landward slope.

LM Start	1.06	Rating **	M	Issue No.	269
LM End	1.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.769574 °	36.769574 °
				-120.276253 °	-120.276253 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33265 DS_ID:19961 EP_NO: 13735 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine status of crossing. Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 2-feet below the crown. Roadway on crown has been padded 1-foot. Siphon breaker on the apex of pipeline on landward shoulder. Galvanized siphon vent pipe on the landward shoulder. Steel cutoff wall around the pipeline at centerline of levee. Pump on landward side. (Permit No. 13735-1984). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_33265_60065.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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	269 (cont)	
LM End	1.06	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.769574 °	36.769574 °	
				-120.276253 °	-120.276253 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33265 DS_ID:19961 EP_NO: 13735 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine status of crossing. Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 2-feet below the crown. Roadway on crown has been padded 1-foot. Siphon breaker on the apex of pipeline on landward shoulder. Galvanized siphon vent pipe on the landward shoulder. Steel cutoff wall around the pipeline at centerline of levee. Pump on landward side. (Permit No. 13735-1984). FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_FA_2016_33265_60064.jpg



View of waterward side.

LM Start	1.34	Rating **	U	Issue No.	13
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.772360 °	36.769993 °
				-120.272798 °	-120.259236 °
DWR ID	DWR_NA0010_24_f_2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_NA0010_140_13_20161024_00029.jpg



Looking at typical view of dense veg on landward slope.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.56	Rating **	U	Issue No.	12
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.770759 °	36.769993 °
				-120.269522 °	-120.259236 °
DWR ID	DWR_NA0010_24_f_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_NA0010_140_12_20161024_00030.jpg



Looking at typical view of dense veg on waterward slope.

LM Start	1.75	Rating **	M	Issue No.	270
LM End	1.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.771065 °	36.771065 °
				-120.266294 °	-120.266294 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33266 DS_ID:19962 EP_NO: 13085 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status. FIELD_STRUCT_DESC: 20-inch steel discharge pipe through the levee, 2-feet below the crown. Siphon breaker installed on apex of pipe on the landward shoulder. Steel cutoff wall placed around pipeline at each shoulder. Pipeline encased through the levee crown in concrete. Vent pipe on landward side. Rock riprap on the waterward levee slope. (Permit No. 13085-1981). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_33266_60069.jpg



Overview of levee crown at crossing.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	270 (cont)	
LM End	1.75	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.771065 °	36.771065 °	
				-120.266294 °	-120.266294 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33266 DS_ID:19962 EP_NO: 13085 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status. FIELD_STRUCT_DESC: 20-inch steel discharge pipe through the levee, 2-feet below the crown. Siphon breaker installed on apex of pipe on the landward shoulder. Steel cutoff wall placed around pipeline at each shoulder. Pipeline encased through the levee crown in concrete. Vent pipe on landward side. Rock riprap on the waterward levee slope. (Permit No. 13085-1981). FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_FA_2016_33266_60070.jpg



View of waterward side.

LM Start	2.69	Rating **	M	Issue No.	271
LM End	2.69	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.771742 °	36.771742 °
				-120.250929 °	-120.250929 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33267 DS_ID:19963 EP_NO: 13735 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 2-feet below the crown. Roadway on crown has been padded 1- foot. Siphon breaker on the apex of pipeline on landward shoulder. Galvanized siphon vent pipe on the landward shoulder. Steel cutoff wall around the pipeline at centerline of levee. Pump on landward side. (Permit No. 13735-1984). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_33267_60075.jpg



Overview of levee crown at crossing.

* 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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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	4.06	Rating **	M	Issue No.	267
LM End	4.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.769238 °	36.769238 °
				-120.228588 °	-120.228588 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36849 DS_ID:19964 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm crossing alignment and appurtenances associated with this crossing. Multiple stand pipes visible on landward side. Need to contact owner to determine status of crossing and alignment. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 12.5 feet below the crown. Concrete riser unit with slide gate on the waterward slope. Screw gate on landward shoulder. Pump on landward side. Rehabilitation of crossing under Permit No. 13085 (1981). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_36849_67237.jpg



View of waterward side.

LM Start	4.06	Rating **	M	Issue No.	267 (cont)
LM End	4.06	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_36849_67236.jpg



Slide gate inside concrete box 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	5.40	Rating **	M	Issue No.	266
LM End	5.40	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.782405 °	36.782405 °
				-120.222763 °	-120.222763 °
DWR ID	DWR_NA0010_24_s_2015_266				
Comment Code					
MA : Material					
Inspector Comment					
Rocks stockpile near waterward toe.					

Photo 1 of 2 : FA_2016_NA0010_140_266_20161007_00008.jpg



Looking at rock stockpile on waterward berm. Fall 2015

LM Start	5.40	Rating **	M	Issue No.	266 (cont)
LM End	5.40	Issue Type +	En	Location *	WS

Photo 2 of 2 : FA_2016_NA0010_140_266_20161007_00009.jpg



Looking north at rock pile on waterward berm.

LM Start	6.15	Rating **	U	Issue No.	2
LM End	6.15	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.788088 °	36.788088 °
				-120.212827 °	-120.212827 °
DWR ID	DWR_NA0010_24_s_2016_2				
Comment Code					
MA : Material					
Inspector Comment					
Sand pile on waterward berm over three feet high and 25 feet away from waterward toe should be removed.					

Photo 1 of 1 : FA_2016_NA0010_140_2_20161007_00001.jpg



Looking northeast at sandpile over three on waterward berm.

*** 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	6.33	Rating **	A/W	Issue No.	3
LM End	6.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.788155 °	36.788155 °
				-120.209655 °	-120.209655 °
DWR ID	DWR_NA0010_24_s_2012_3				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile in channel.					

No Photos

LM Start	6.72	Rating **	U	Issue No.	15
LM End	6.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.786678 °	36.783993 °
				-120.204741 °	-120.203779 °
DWR ID	DWR_NA0010_24_f_2015_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope					

Photo 1 of 1 : FA_2016_NA0010_140_15_20161007_00005.jpg



Looking northwest at dense veg on landward slope and 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	6.73	Rating **	M	Issue No.	273
LM End	6.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.786632 °	36.786632 °
				-120.204733 °	-120.204733 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50056
DS_ID:19957
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/20/2016 same as previous inspection. Crossing has been downgraded from Urgent to Non-Urgent PVC does not prevent WS flap gate from closing. (DWR UCIP - omagana)4/08/2014 Unauthorized PVC pipe through existing crossing. PVC distorted inside--Need to contact owner to correct issue. If crossing was allowed need to contact owner for permit number issue for crossing variance. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3.6 feet below the crown. Concrete "U" headwall located on the waterside (WS) end. Flap gate is located on the WS end. Concrete headwall is located on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002]
FS Date: 7/20/2016

LM Start	6.73	Rating **	M	Issue No.	273 (cont)
LM End	6.73	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50056_60105.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_50056_60107.jpg



View of WS--debris (pipe sections) 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	8.33	Rating **	M	Issue No.	272
LM End	8.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.778084 °	36.778084 °
				-120.184454 °	-120.184454 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33272					
DS_ID:19960					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Barbed wire along levee shoulder--no access. Need to confirm crossing size and condition of crossing.					
FIELD_STRUCT_DESC: 12-inch concrete pipe through the levee, 3.0 feet below the crown. Concrete headwall on the waterward end. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.32).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_FA_2016_33272_60121.jpg



View of waterward side.

LM Start	8.33	Rating **	M	Issue No.	272 (cont)
LM End	8.33	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_33272_60120.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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 25 Salt Slough			Right	2.49
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/19/2016 - 5/19/2016		10/21/2016 - 10/21/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	7
LM End	2.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.271165 °
				-120.880678 °	-120.866629 °
DWR ID	DWR_NA0010_25_f_2015_7				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_141_7_20161024_00022.jpg



Looking at typical view of dense veg on landward slope. (Fall 2016)

LM Start	0.00	Rating **	U	Issue No.	7 (cont)
LM End	2.48	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_141_7_20161007_00001.jpg



Looking at typical view of landward slope. (Spring 2016)

LM Start	0.00	Rating **	U	Issue No.	9
LM End	2.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.271117 °
				-120.880678 °	-120.866599 °
DWR ID	DWR_NA0010_25_f_2015_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_141_9_20161024_00023.jpg



Looking at typical view of dense veg on waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	9 (cont)	
LM End	2.49	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.296261 °		37.271117 °
				-120.880678 °		-120.866599 °
DWR ID	DWR_NA0010_25_f_2015_9					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

Photo 2 of 2 : FA_2016_NA0010_141_9_20161007_00003.jpg



Looking at typical view of waterward slope.

LM Start	0.01	Rating **	U	Issue No.	8
LM End	2.49	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296117 °	37.271117 °
				-120.880724 °	-120.866599 °
DWR ID	DWR_NA0010_25_s_2012_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control weeds on levee crown.					

Photo 1 of 2 : FA_2016_NA0010_141_8_20161024_00024.jpg



Looking at typical view of dense veg on levee crown. (Fall 2016)

LM Start	0.01	Rating **	U	Issue No.	8 (cont)
LM End	2.49	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : FA_2016_NA0010_141_8_20161007_00002.jpg



Looking at typical view of levee crown. (Spring 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	14
LM End	0.02	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.296038 °	37.296038 °
				-120.880742 °	-120.880742 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39501 DS_ID:19965 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.02). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_39501_67242.jpg



View of waterward side--dense vegetation on waterward side.

LM Start	0.02	Rating **	M	Issue No.	14 (cont)
LM End	0.02	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_39501_67240.jpg



Pipe daylight visible on waterward 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.36	Rating **	M	Issue No.	10
LM End	0.36	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.291173 °	37.291173 °
				-120.880731 °	-120.880731 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36851 DS_ID:19966 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.6 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.35). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36851_67249.jpg



View of waterward side.

LM Start	0.36	Rating **	M	Issue No.	10 (cont)
LM End	0.36	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_36851_67248.jpg



Pipe outlet visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.59	Rating **	M	Issue No.	11
LM End	0.59	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.287744 °	37.287744 °
				-120.880645 °	-120.880645 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36852 DS_ID:19967 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.7 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.59). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36852_67250.jpg



Overview of waterward side--Salt Slough.

LM Start	0.59	Rating **	M	Issue No.	11 (cont)
LM End	0.59	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_36852_67251.jpg



View of waterward slope covered by dense vegetation.

* 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.97	Rating **	M	Issue No.	12
LM End	0.97	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.282252 °	37.282252 °
				-120.880738 °	-120.880738 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36853 DS_ID:19968 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.4 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.97). FS Date: 5/1/2014					

LM Start	0.97	Rating **	M	Issue No.	12 (cont)
LM End	0.97	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_FA_2016_36853_67256.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_36853_67255.jpg



Pipe and evidence of flap gate visible 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	13
LM End	2.05	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.277390 °	37.277390 °
				-120.867184 °	-120.867184 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36854 DS_ID:19969 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 4.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.05). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_FA_2016_36854_67259.jpg



View of landward side.

LM Start	2.05	Rating **	M	Issue No.	13 (cont)
LM End	2.05	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_36854_67260.jpg



View of 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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	2.45	Rating **	M	Issue No.	15
LM End	2.45	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.271599 °	37.271599 °
				-120.866819 °	-120.866819 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39502					
DS_ID:19970					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible on landward side--recommend clearing.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.45).					
FS Date: 5/1/2014 4:04:00 PM					

Photo 1 of 2 : UCIP_FA_2016_39502_67270.jpg



View of waterward side.

LM Start	2.45	Rating **	M	Issue No.	15 (cont)
LM End	2.45	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_39502_67269.jpg



Pipe daylights at waterward 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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