

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2018 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)				

\*\* 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**

**Spring 2018 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)				
Date of Inspection	4/4/2018 - 4/16/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>23</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_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	<b>0.00</b>	Rating **	A	Issue No.	<b>24</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
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	<b>0.00</b>	Rating **	A	Issue No.	<b>25</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				
DWR ID	DWR_NA0010_01_s _ 2013_25				
Comment Code					
Inspector Comment					
LMA preparedness and training is adequate for flood response.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>1185</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS), elevation 65.1 feet, USGS Datum.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)].  
FS Date: 4/8/2014 7:34:00 AM

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>1185 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39091\_60601.jpg



Flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39091\_60600.jpg



Flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	1185 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS), elevation 65.1 feet, USGS Datum. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)]. FS Date: 4/8/2014 7:34:00 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_39091\_60602.jpg



Headwall on LS toe.

LM Start	0.00	Rating **	M	Issue No.	103
LM End	22.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348643 °	37.166833 °
				-120.958863 °	-120.749693 °
DWR ID	DWR_NA0010_01_s_2018_103				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	113
LM End	22.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348644 °	37.166833 °
				-120.958864 °	-120.749693 °
DWR ID	DWR_NA0010_01_s_2018_113				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.06	Rating **	A/W	Issue No.	102
LM End	0.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348139 °	37.345556 °
				-120.959688 °	-120.961795 °
DWR ID	DWR_NA0010_01_f_2017_102				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation at the landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_102\_20180307\_00018.jpg



Looking southwest at the landside slope.

LM Start	0.07	Rating **	M	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.347999 °	37.346096 °
				-120.959840 °	-120.961455 °
DWR ID	DWR_NA0010_01_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Typical view of several rodent holes on landward slope.Could not see rodent holes due to dense vegetation.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_1\_20180307\_00001.jpg



Looking at typical 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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.34	Rating **	M	Issue No.	1186	
LM End	0.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 18.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39092\_60611.jpg



Flapgate and headwall visible off WS toe.

LM Start	<b>0.34</b>	Rating **	M	Issue No.	<b>1186 (cont)</b>
LM End	<b>0.34</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39092\_60613.jpg



Flapgate and headwall visible off WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.34	Rating **	M	Issue No.	1186 (cont)	
LM End	0.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 18.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39092\_60612.jpg



Pipe and headwall visible off LS toe.

LM Start	0.60	Rating **	M	Issue No.	1187	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.62)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39095\_60622.jpg



Flapgate and headwall visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1187 (cont)	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.62)].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39095\_60623.jpg



Flapgate and headwall visible on WS toe.

LM Start	<b>0.60</b>	Rating **	M	Issue No.	<b>1187 (cont)</b>
LM End	<b>0.60</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39095\_60621.jpg



Pipe and headwall visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.85	Rating **	A/W	Issue No.	1188
LM End	0.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.339829 °	37.339829 °
				-120.958621 °	-120.958621 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33524					
DS_ID:19584					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.87)].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33524\_60627.jpg



Pipe, flapgate, and headwall visible on WS toe.

LM Start	<b>0.85</b>	Rating **	A/W	Issue No.	<b>1188 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33524\_60626.jpg



Pipe and headwall visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.85	Rating **	A/W	Issue No.	1188 (cont)	
LM End	0.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.339829 °	37.339829 °	
				-120.958621 °	-120.958621 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33524						
DS_ID:19584						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.87)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33524\_60625.jpg



Pipe and headwall visible on LS toe.

LM Start	0.93	Rating **	M	Issue No.	1189	
LM End	0.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.95)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39096\_60632.jpg



Flapgate, pipe, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.93	Rating **	M	Issue No.	1189 (cont)	
LM End	0.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.95)].						
FS Date: 4/8/2014						

LM Start	<b>0.93</b>	Rating **	M	Issue No.	<b>1189 (cont)</b>
LM End	<b>0.93</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39096\_60631.jpg



Concrete headwall and pipe visible at LS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39096\_60633.jpg



Flapgate, pipe, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.15	Rating **	A/W	Issue No.	1190	
LM End	1.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.338005 °	37.338005 °	
				-120.953921 °	-120.953921 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33543						
DS_ID:19586						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.17)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_33543\_60642.jpg



Pipe, headwall, and flapgate visible on WS toe.

LM Start	<b>1.15</b>	Rating **	A/W	Issue No.	<b>1190 (cont)</b>
LM End	<b>1.15</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33543\_60643.jpg



Pipe, headwall, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.15	Rating **	A/W	Issue No.	1190 (cont)	
LM End	1.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.338005 °	37.338005 °	
				-120.953921 °	-120.953921 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33543						
DS_ID:19586						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7.5 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 1.17)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33543\_60641.jpg



Headwall and pipe visible on LS toe.

LM Start	1.32	Rating **	A/W	Issue No.	1191
LM End	1.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.337361 °	37.337361 °
				-120.950879 °	-120.950879 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33544 DS_ID:19587 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). Pipe crosses through the levee at about a 45 degree angle to the crown. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33544\_60649.jpg



Concrete headwall and flapgate visible at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.32	Rating **	A/W	Issue No.	1191 (cont)	
LM End	1.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.337361 °	37.337361 °	
				-120.950879 °	-120.950879 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33544						
DS_ID:19587						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). Pipe crosses through the levee at about a 45 degree angle to the crown. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33544\_60648.jpg



Concrete headwall and flapgate visible at WS toe.

LM Start	<b>1.32</b>	Rating **	A/W	Issue No.	<b>1191 (cont)</b>
LM End	<b>1.32</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33544\_60647.jpg



Concrete headwall and pipe visible at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.46	Rating **	M	Issue No.	1192	
LM End	1.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.48)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39099\_60652.jpg



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

LM Start	<b>1.46</b>	Rating **	M	Issue No.	<b>1192 (cont)</b>
LM End	<b>1.46</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39099\_60653.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.46	Rating **	M	Issue No.	1192 (cont)	
LM End	1.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.48)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39099\_60651.jpg



Pipe and concrete headwall visible on LS toe.

LM Start	1.67	Rating **	M	Issue No.	1193	
LM End	1.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 13.6 feet below the crown. Flap gate on the						
waterside (WS) end. Brass cap No. 108 bench mark (BM) on the						
headwall on the landside (LS). [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.69)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_33563\_60661.jpg



Pipe, headwall, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.67	Rating **	M	Issue No.	1193 (cont)
LM End	1.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.69)].  
FS Date: 4/8/2014

LM Start	<b>1.67</b>	Rating **	M	Issue No.	<b>1193 (cont)</b>
LM End	<b>1.67</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33563\_60663.jpg



Pipe, headwall, and flapgate visible on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33563\_60662.jpg



Pipe and headwall visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.81	Rating **	A/W	Issue No.	1194
LM End	1.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.335612 °	37.335612 °
				-120.942532 °	-120.942532 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33564					
DS_ID:19590					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.83)].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33564\_60666.jpg



Pipe, flapgate, and headwall visible at WS toe.

LM Start	<b>1.81</b>	Rating **	A/W	Issue No.	<b>1194 (cont)</b>
LM End	<b>1.81</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33564\_60667.jpg



Pipe, flapgate, and headwall visible at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.81	Rating **	A/W	Issue No.	1194 (cont)	
LM End	1.81	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.335612 °		37.335612 °
				-120.942532 °		-120.942532 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33564						
DS_ID:19590						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 14.2 feet below the crown. Flap gate on the						
waterside (WS) end. Brass cap No. 100 bench mark (BM) on the						
headwall on the landside (LS). [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.83)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33564\_60665.jpg



Pipe and concrete headwall visible at LS toe.

LM Start	1.95	Rating **	M	Issue No.	1195	
LM End	1.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 9.7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). Wooden barrier around drop inlet on the LS toe.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 1.98)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39100\_60670.jpg



Concrete headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.95	Rating **	M	Issue No.	1195 (cont)	
LM End	1.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 9.7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). Wooden barrier around drop inlet on the LS toe.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 1.98)].						
FS Date: 4/8/2014						

LM Start	<b>1.95</b>	Rating **	M	Issue No.	<b>1195 (cont)</b>
LM End	<b>1.95</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39100\_60672.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39100\_60671.jpg



Wooded barrier around drop-inlet on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.06	Rating **	M	Issue No.	1196	
LM End	2.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.08)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39123\_60675.jpg



Pipe and flapgate visible on WS toe.

LM Start	<b>2.06</b>	Rating **	M	Issue No.	<b>1196 (cont)</b>
LM End	<b>2.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39123\_60676.jpg



Pipe and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.06	Rating **	M	Issue No.	1196 (cont)	
LM End	2.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.08)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39123\_60674.jpg



Wooded barrier around drop-inlet on LS toe.

LM Start	2.22	Rating **	A/W	Issue No.	1197	
LM End	2.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.331611 °	37.331611 °	
				-120.937455 °	-120.937455 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39125 DS_ID:19571 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). Wooden barrier around drop inlet on the LS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.25)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39125\_71309.jpg



Pipe and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.22	Rating **	A/W	Issue No.	1197 (cont)	
LM End	2.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.331611 °	37.331611 °	
				-120.937455 °	-120.937455 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39125						
DS_ID:19571						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). Wooden barrier around drop inlet on the LS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.25)].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39125\_71308.jpg



Pipe and headwall on LS toe.

LM Start	<b>2.22</b>	Rating **	A/W	Issue No.	<b>1197 (cont)</b>
LM End	<b>2.22</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39125\_71307.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.50	Rating **	A/W	Issue No.	1198
LM End	2.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.328619 °	37.328619 °
				-120.934369 °	-120.934369 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33568 DS_ID:19572 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.52)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33568\_60679.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>2.50</b>	Rating **	A/W	Issue No.	<b>1198 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33568\_60680.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.50	Rating **	A/W	Issue No.	1198 (cont)	
LM End	2.50	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.328619 °	37.328619 °	
				-120.934369 °	-120.934369 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33568						
DS_ID:19572						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 8 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 2.52)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33568\_60678.jpg



Pipe and headwall on LS toe.

LM Start	2.67	Rating **	M	Issue No.	1199	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 7.3 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 2.70)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39127\_60688.jpg



Pipe, flapgate, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	1199 (cont)	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 7.3 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 2.70)].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39127\_60689.jpg



Pipe, flapgate, and headwall on WS toe.

LM Start	<b>2.67</b>	Rating **	M	Issue No.	<b>1199 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39127\_60687.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.06	Rating **	M	Issue No.	104
LM End	3.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.322499 °	37.322499 °
				-120.928986 °	-120.928986 °
DWR ID	DWR_NA0010_01_f_2017_104				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by foot traffic.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_104\_20180307\_00019.jpg



Looking northeast at the landside slope.

LM Start	3.13	Rating **	M	Issue No.	108
LM End	3.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.321468 °	37.321468 °
				-120.928757 °	-120.928757 °
DWR ID	DWR_NA0010_01_s_2017_108				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by animal traffic on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_108\_20180307\_00020.jpg



Looking west at slope damage caused by animal traffic.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.13	Rating **	M	Issue No.	1200
LM End	3.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.16)].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39128\_60702.jpg



Pipe, Flapgate, and headwall on WS toe.

LM Start	<b>3.13</b>	Rating **	M	Issue No.	<b>1200 (cont)</b>
LM End	<b>3.13</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39128\_60700.jpg



Pipe, Flapgate, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.13	Rating **	M	Issue No.	1200 (cont)	
LM End	3.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 8 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 3.16)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39128\_60701.jpg



Pipe and headwall on LS toe.

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 waterside shoulder next to fence pole.					

Photo 1 of 2 : SP\_2018\_NA0010\_118\_10\_20180307\_00008.jpg



Looking at typical view of rodent holes on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.16	Rating **	M	Issue No.	10 (cont)	
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 waterside shoulder next to fence pole.						

Photo 2 of 2 : SP\_2018\_NA0010\_118\_10\_20180307\_00009.jpg



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

LM Start	3.26	Rating **	A/W	Issue No.	109
LM End	3.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.319740 °	37.319300 °
				-120.928308 °	-120.927903 °
DWR ID	DWR_NA0010_01_s_2017_109				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression (sinkhole) on levee crown and other depressions					

Photo 1 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00021.jpg



Looking south at sinkhole on levee crown

LM Start	<b>3.26</b>	Rating **	A/W	Issue No.	<b>109 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00022.jpg



Looking south at close view of sinkhole on levee crown

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.26	Rating **	A/W	Issue No.	109 (cont)
LM End	3.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.319740 °	37.319300 °
				-120.928308 °	-120.927903 °
DWR ID	DWR_NA0010_01_s_2017_109				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression (sinkhole) on levee crown and other depressions					

Photo 3 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00023.jpg



Looking south at sinkhole on levee crown.

LM Start	<b>3.26</b>	Rating **	A/W	Issue No.	<b>109 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	CR

Photo 4 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00024.jpg



Looking south at rutting on 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



**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1201
LM End	3.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.50)]. FS Date: 7/19/2016					

Photo 1 of 3 : UCIP\_SP\_2018\_50054\_60707.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>3.47</b>	Rating **	U	Issue No.	<b>1201 (cont)</b>
LM End	<b>3.47</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_50054\_60706.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1201 (cont)	
LM End	3.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.50)]. FS Date: 7/19/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50054\_60705.jpg



Pipe and headwall on LS toe.

LM Start	3.47	Rating **	C	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					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Several erosions greater than three inches on landside slope.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.50	Rating **	C	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	3.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.313892 °	37.311341 °
				-120.926507 °	-120.927365 °
DWR ID	DWR_NA0010_01_s _ 2012_2				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.92	Rating **	M	Issue No.	1202
LM End	3.92	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 3.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.95)].  
FS Date: 4/8/2014

LM Start	<b>3.92</b>	Rating **	M	Issue No.	<b>1202 (cont)</b>
LM End	<b>3.92</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39132\_60723.jpg



Slide gate missing on WS toe with heavy vegetation camouflaging pipe

Photo 2 of 3 : UCIP\_SP\_2018\_39132\_60720.jpg



Slide gate missing on WS toe with heavy vegetation camouflaging pipe

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.92	Rating **	M	Issue No.	1202 (cont)	
LM End	3.92	Issue Type +	En	Location *		
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 corrugated metal gravity drainage pipe through the levee, 3.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.95)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39132\_60722.jpg



Concrete headwall in heavy vegetation at LS toe.

LM Start	3.93	Rating **	M	Issue No.	1203
LM End	3.93	Issue Type +	En	Location *	
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 reinforced concrete irrigation discharge pipe through the levee, 3.5 feet below the crown. 12-inch concrete standpipe off each side of the levee. [Additional Reference(s): DWR Levee Log, 2002].					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_39133\_60725.jpg



12-inch concrete standpipe off WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.93	Rating **	M	Issue No.	1203 (cont)	
LM End	3.93	Issue Type +	En	Location *		
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 reinforced concrete irrigation discharge pipe through the levee, 3.5 feet below the crown. 12-inch concrete standpipe off each side of the levee. [Additional Reference(s): FS Levee Log, 2002].						
FS Date: 4/8/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_39133\_60724.jpg



12-inch concrete standpipe off LS toe.

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 : SP\_2018\_NA0010\_118\_5\_20180307\_00002.jpg



Looking north at irrigation ditch at landside toe.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.98	Rating **	U	Issue No.	5 (cont)	
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 2 of 2 : SP\_2018\_NA0010\_118\_5\_20180307\_00003.jpg



Looking south at irrigation ditch at landside toe.

LM Start	4.13	Rating **	M	Issue No.	1204	
LM End	4.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.16)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39134\_60730.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1204 (cont)	
LM End	4.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.16)]. FS Date: 4/8/2014						

LM Start	<b>4.13</b>	Rating **	M	Issue No.	<b>1204 (cont)</b>
LM End	<b>4.13</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39134\_60731.jpg



Assumed pipe exists under pump at LS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39134\_60729.jpg



Concrete inlet, slidegate, and concrete headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1205	
LM End	4.13	Issue Type +	En	Location *		
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 drainage discharge pipe through the levee, 2.5 feet below the crown. 12-inch steel pipe, vent, and pump on stand visible on the landside (LS) slope. 10-inch polyvinyl chloride (PVC) pipe visible on the waterside (WS) slope.						
FS Date: 4/8/2014						

Photo 1 of 2 : UCIP\_SP\_2018\_39138\_71320.jpg



View of pipe visible on landward side.

LM Start	<b>4.13</b>	Rating **	M	Issue No.	<b>1205 (cont)</b>
LM End	<b>4.13</b>	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_39138\_71319.jpg



Pipe through existing 48 inch pipe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.18	Rating **	M	Issue No.	105
LM End	4.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.308458 °	37.308458 °
				-120.923942 °	-120.923942 °
DWR ID	DWR_NA0010_01_f_2017_105				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	4.25	Rating **	M	Issue No.	1206
LM End	4.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39140\_60733.jpg



Pipe, flapgate, and headwall visible at 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.25	Rating **	M	Issue No.	1206 (cont)
LM End	4.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)].  
FS Date: 4/8/2014

LM Start	<b>4.25</b>	Rating **	M	Issue No.	<b>1206 (cont)</b>
LM End	<b>4.25</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39140\_60732.jpg



Pipe, flapgate, and headwall visible at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39140\_60734.jpg



Concrete headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	1207
LM End	4.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.72)].  
FS Date: 4/8/2014

LM Start	<b>4.69</b>	Rating **	M	Issue No.	<b>1207 (cont)</b>
LM End	<b>4.69</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39141\_60737.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39141\_60738.jpg



Pipe, flapgate, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	1207 (cont)	
LM End	4.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.72)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39141\_60736.jpg



Pipe and concrete headwall on LS toe.

LM Start	4.69	Rating **	A/W	Issue No.	9
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.302398 °	37.302398 °
				-120.920920 °	-120.920920 °
DWR ID	DWR_NA0010_01_s_2013_9				
Comment Code					
Inspector Comment					
Levee landside toe damaged by livestock.					

Photo 1 of 3 : SP\_2018\_NA0010\_118\_9\_20180420\_00271.jpg



Looking south at fill poorly placed on landward slope and toe. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.69	Rating **	A/W	Issue No.	9 (cont)	
LM End	4.69	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.302398 °	37.302398 °	
				-120.920920 °	-120.920920 °	
DWR ID	DWR_NA0010_01_s_2013_9					
Comment Code						
Inspector Comment						
Levee landside toe damaged by livestock.						

Photo 2 of 3 : SP\_2018\_NA0010\_118\_9\_20180307\_00006.jpg



Looking south at landside.

LM Start	<b>4.69</b>	Rating **	A/W	Issue No.	<b>9 (cont)</b>
LM End	<b>4.69</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2018\_NA0010\_118\_9\_20180307\_00007.jpg



Looking at landward slope damaged by livestock.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	5.02	Rating **	M	Issue No.	1208	
LM End	5.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.05)]. FS Date: 4/8/2014						

Photo 1 of 2 : UCIP\_SP\_2018\_39143\_60740.jpg



Flapgate and headwall visible at WS toe.

LM Start	<b>5.02</b>	Rating **	M	Issue No.	<b>1208 (cont)</b>
LM End	<b>5.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_39143\_60739.jpg



Flapgate and headwall visible at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	5.74	Rating **	U	Issue No.	107
LM End	6.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.304179 °	37.304911 °
				-120.906860 °	-120.899002 °
DWR ID	DWR_NA0010_01_f_2017_107				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_107\_20180420\_00272.jpg



Looking south at dense veg on waterward slope. (Spring 2018)

LM Start	5.74	Rating **	U	Issue No.	106
LM End	6.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.304180 °	37.304911 °
				-120.906860 °	-120.899001 °
DWR ID	DWR_NA0010_01_f_2017_106				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_106\_20180420\_00273.jpg



Looking south at dense veg on landward slope. (Spring 2018)

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	5.92	Rating **	M	Issue No.	1209
LM End	5.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.95)].  
FS Date: 4/8/2014

LM Start	<b>5.92</b>	Rating **	M	Issue No.	<b>1209 (cont)</b>
LM End	<b>5.92</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_39151\_60742.jpg



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

Photo 2 of 2 : UCIP\_SP\_2018\_39151\_60741.jpg



Top of concrete headwall just visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.10	Rating **	M	Issue No.	1210	
LM End	6.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 identifying 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 corrugated metal gravity drainage pipe through the levee, 13.1 feet below the crown. Walkway to slide gate at the concrete headwall on the landside (LS) toe. Flap gate at the concrete headwall on the waterside (WS) toe. Brass cap No. 90 bench mark (BM) on the headwall on the LS. Pipe crosses the levee at an angle. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.13)]. FS Date: 4/8/2014						

LM Start	<b>6.10</b>	Rating **	M	Issue No.	<b>1210 (cont)</b>
LM End	<b>6.10</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39152\_60745.jpg



Slidegate at LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39152\_60744.jpg



Pipe, concrete headwall, slidegate, and metal walkway on LS 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 - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.10	Rating **	M	Issue No.	1210 (cont)	
LM End	6.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 identifying 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 corrugated metal gravity drainage pipe through the levee, 13.1 feet below the crown. Walkway to slide gate at the concrete headwall on the landside (LS) toe. Flap gate at the concrete headwall on the waterside (WS) toe. Brass cap No. 90 bench mark (BM) on the headwall on the LS. Pipe crosses the levee at an angle. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.13)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39152\_60743.jpg



Flapgate on concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.39	Rating **	M	Issue No.	1211
LM End	6.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end next to a 48-inch concrete riser with walkway over the top. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.40)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39154\_60762.jpg



Pipe, flapgate, and concrete headwall on WS toe.

LM Start	<b>6.39</b>	Rating **	M	Issue No.	<b>1211 (cont)</b>
LM End	<b>6.39</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39154\_60760.jpg



Pipe, flapgate, and concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.39	Rating **	M	Issue No.	1211 (cont)	
LM End	6.39	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end next to a 48-inch concrete riser with walkway over the top. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.40)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39154\_60761.jpg



Metal walkway over concrete standpipe next to slide gate on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.61	Rating **	M	Issue No.	1212	
LM End	6.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 9.8 feet below the crown. Wooden fence around a 4-foot by 4-foot drop inlet on the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.64)]. FS Date: 7/19/2016						

LM Start	<b>6.61</b>	Rating **	M	Issue No.	<b>1212 (cont)</b>
LM End	<b>6.61</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49962\_60764.jpg



Pipe and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_49962\_60766.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.61	Rating **	M	Issue No.	1212 (cont)	
LM End	6.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 9.8 feet below the crown. Wooden fence around a 4-foot by 4-foot drop inlet on the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.64)]. FS Date: 7/19/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49962\_60765.jpg



Wooden barrier around drop inlet on LS toe. Excess vegetation.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.86	Rating **	M	Issue No.	1213	
LM End	6.86	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 10.3 feet below the crown. Slide gate on the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.90)]. FS Date: 7/19/2016						

LM Start	<b>6.86</b>	Rating **	M	Issue No.	<b>1213 (cont)</b>
LM End	<b>6.86</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_50077\_60768.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_50077\_60767.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.86	Rating **	M	Issue No.	1213 (cont)	
LM End	6.86	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 10.3 feet below the crown. Slide gate on the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.90)]. FS Date: 7/19/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50077\_75470.jpg



View of WS--fence limits access to flap gate.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.18	Rating **	M	Issue No.	1214
LM End	7.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 5.1 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.21)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_42851\_60770.jpg



Pipe, concrete headwall, and flapgate on WS toe.

LM Start	<b>7.18</b>	Rating **	M	Issue No.	<b>1214 (cont)</b>
LM End	<b>7.18</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_42851\_60772.jpg



Flapgate and concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.18	Rating **	M	Issue No.	1214 (cont)	
LM End	7.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 5.1 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.21)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_42851\_60771.jpg



Pipe and Concrete headwall visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.29	Rating **	M	Issue No.	1215	
LM End	7.29	Issue Type +	En	Location *		
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 concrete encased steel irrigation discharge pipe through the levee, 13.6 feet below the crown. Pipe encased in 6-inches of concrete through the levee. 5-foot by 7-foot concrete distribution box on the waterside (WS). 20-inch concrete standpipe at the landside (LS) toe. Pump on the riverbank, accessible by walkway platform, pump not found. Concrete cutoff walls around pipe in line with the levee shoulders. Pipe extends to 36-inch concrete pipes on both sides of the levee. (Plans to install an irrigation pipeline through the levee authorized under Permit No. 4425, 1964 - James J. Stevinson, a Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

LM Start	<b>7.29</b>	Rating **	M	Issue No.	<b>1215 (cont)</b>
LM End	<b>7.29</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39160\_60776.jpg



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

Photo 2 of 3 : UCIP\_SP\_2018\_39160\_60775.jpg



5'X7' concrete box riser on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.29	Rating **	M	Issue No.	1215 (cont)	
LM End	7.29	Issue Type +	En	Location *		
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 concrete encased steel irrigation discharge pipe through the levee, 13.6 feet below the crown. Pipe encased in 6-inches of concrete through the levee. 5-foot by 7-foot concrete distribution box on the waterside (WS). 20-inch concrete standpipe at the landside (LS) toe. Pump on the riverbank, accessible by walkway platform, pump not found. Concrete cutoff walls around pipe in line with the levee shoulders. Pipe extends to 36-inch concrete pipes on both sides of the levee. (Plans to install an irrigation pipeline through the levee authorized under Permit No. 4425, 1964 - James J. Stevinson, a Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39160\_60774.jpg



20-inch concrete standpipe off LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.42	Rating **	M	Issue No.	1216 (cont)	
LM End	7.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.46)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39161\_60779.jpg



Concrete headwall and pipe visible off LS toe in heavy vegetation.

LM Start	7.65	Rating **	M	Issue No.	1217	
LM End	7.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.69)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39243\_60842.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.65	Rating **	M	Issue No.	1217 (cont)	
LM End	7.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.69)]. FS Date: 4/8/2014						

LM Start	<b>7.65</b>	Rating **	M	Issue No.	<b>1217 (cont)</b>
LM End	<b>7.65</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39243\_60840.jpg



Flapgate and headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39243\_60841.jpg



Concrete headwall at LS toe. Heavy vegetation on both slopes.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.03	Rating **	M	Issue No.	1218	
LM End	8.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.07)]. FS Date: 4/9/2014						

LM Start	<b>8.03</b>	Rating **	M	Issue No.	<b>1218 (cont)</b>
LM End	<b>8.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39244\_60844.jpg



Pipe, Headwall, and flapgate at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39244\_60847.jpg



Pipe, Headwall, and flapgate at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.03	Rating **	M	Issue No.	1218 (cont)	
LM End	8.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.07)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39244\_60846.jpg



Pipe and concrete headwall on LS toe.

LM Start	8.13	Rating **	C	Issue No.	110
LM End	8.38	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.298115 °	37.296661 °
				-120.866122 °	-120.862009 °
DWR ID	DWR_NA0010_01_f_2017_110				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.38	Rating **	M	Issue No.	1219
LM End	8.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.41)]. FS Date: 4/9/2014					

LM Start	<b>8.38</b>	Rating **	M	Issue No.	<b>1219 (cont)</b>
LM End	<b>8.38</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39245\_60850.jpg



Concrete headwall, pipe, and flapgate at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39245\_60848.jpg



Concrete headwall, pipe, and flapgate at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.38	Rating **	M	Issue No.	1219 (cont)	
LM End	8.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 9.5 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 8.41)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39245\_60849.jpg



Pipe and concrete headwall at LS toe. Note heavy vegetation.

LM Start	8.55	Rating **	M	Issue No.	12
LM End	8.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.296489 °	37.296764 °
				-120.859081 °	-120.857635 °
DWR ID	DWR_NA0010_01_s_2018_12				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.57	Rating **	A/W	Issue No.	1220
LM End	8.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.296552 °	37.296552 °
				-120.858596 °	-120.858596 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39246					
DS_ID:19622					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 9 feet below the crown. Flap gate on the waterside					
(WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the					
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE					
San Joaquin O&M Manual 601.1, 1967, (HLM 8.61)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39246\_60854.jpg



Pipe, Flapgate, and headwall on WS toe.

LM Start	<b>8.57</b>	Rating **	A/W	Issue No.	<b>1220 (cont)</b>
LM End	<b>8.57</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39246\_60855.jpg



Pipe, Flapgate, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.57	Rating **	A/W	Issue No.	1220 (cont)	
LM End	8.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.296552 °	37.296552 °	
				-120.858596 °	-120.858596 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39246						
DS_ID:19622						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 8.61)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39246\_60853.jpg



Pipe and headwall at LS toe.

LM Start	8.89	Rating **	M	Issue No.	1221	
LM End	8.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.93)]. FS Date: 4/9/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39247\_60859.jpg



Pipe, flapgate, and headwall 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 : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.89	Rating **	M	Issue No.	1221 (cont)	
LM End	8.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.93)]. FS Date: 4/9/2014						

LM Start	<b>8.89</b>	Rating **	M	Issue No.	<b>1221 (cont)</b>
LM End	<b>8.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39247\_60860.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39247\_60858.jpg



Pipe and headwall visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.97	Rating **	U	Issue No.	1222
LM End	8.97	Issue Type +	En	Location *	
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 through a 30-inch reinforced concrete gravity drainage pipe through the levee, 7.3 feet below the crown. Annular space grouted between the two pipes. Two concrete cutoff walls in the center of the levee. Slide gate with elevated walkway access on the waterside (WS) end. 6-inch thick concrete headwall on the WS end. Concrete wing walls on each end. (Plans to install a 30-inch storm drainage pipe with a valve through the levee authorized under Permit No. 12156, 1977 - Merquin County Water District). (Additional Related Permit(s): Permit No. 12156-A, 1978 - Merquin County Water District). [Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 7/19/2016

LM Start	<b>8.97</b>	Rating **	U	Issue No.	<b>1222 (cont)</b>
LM End	<b>8.97</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49964\_60864.jpg



Metal walkway to slidegate operator on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_49964\_60862.jpg



Slidegate and headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.97	Rating **	U	Issue No.	1222 (cont)	
LM End	8.97	Issue Type +	En	Location *		
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 through a 30-inch reinforced concrete gravity drainage pipe through the levee, 7.3 feet below the crown. Annular space grouted between the two pipes. Two concrete cutoff walls in the center of the levee. Slide gate with elevated walkway access on the waterside (WS) end. 6-inch thick concrete headwall on the WS end. Concrete wing walls on each end. (Plans to install a 30-inch storm drainage pipe with a valve through the levee authorized under Permit No. 12156, 1977 - Merquin County Water District). (Additional Related Permit(s): Permit No. 12156-A, 1978 - Merquin County Water District). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/19/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49964\_60865.jpg



Slidegate rusted through and open on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.97	Rating **	M	Issue No.	1223 (cont)	
LM End	8.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.00)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39249\_60868.jpg



Pipe and headwall visible on LS toe.

LM Start	8.99	Rating **	M	Issue No.	1224	
LM End	8.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.03)]. FS Date: 4/9/2014						

Photo 1 of 2 : UCIP\_SP\_2018\_39250\_60872.jpg



Heavy vegetation on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.99	Rating **	M	Issue No.	1224 (cont)	
LM End	8.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.03)]. FS Date: 4/9/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_39250\_60871.jpg



Pipe, concrete headwall, and flapgate at WS toe.

LM Start	8.99	Rating **	U	Issue No.	92
LM End	9.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.297497 °	37.295310 °
				-120.851068 °	-120.843918 °
DWR ID	DWR_NA0010_01_s_2017_92				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_92\_20180307\_00017.jpg



Looking southwest at dense veg on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.99	Rating **	U	Issue No.	6
LM End	9.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.297497 °	37.295138 °
				-120.851068 °	-120.840857 °
DWR ID	DWR_NA0010_01_s_2017_6				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_6\_20180307\_00004.jpg



Looking south at dense veg on landward slope.

LM Start	9.10	Rating **	C	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			37.296725 °	37.293077 °
				-120.849438 °	-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.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	9.34	Rating **	M	Issue No.	1225
LM End	9.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Concrete drop inlet at the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.37)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39251\_60875.jpg



Pipe and flapgate on WS toe.

LM Start	<b>9.34</b>	Rating **	M	Issue No.	<b>1225 (cont)</b>
LM End	<b>9.34</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39251\_60876.jpg



Headwall, Pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	9.34	Rating **	M	Issue No.	1225 (cont)	
LM End	9.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Concrete drop inlet at the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.37)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39251\_60874.jpg



Concrete drop-inlet installed on pipe at LS toe.

LM Start	9.36	Rating **	A/W	Issue No.	111
LM End	9.42	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.295350 °	37.295282 °
				-120.845243 °	-120.844089 °
DWR ID	DWR_NA0010_01_f_2017_111				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair potholes and ruts in crown..					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	9.57	Rating **	A/W	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					

Photo 1 of 3 : SP\_2018\_NA0010\_118\_14\_20180307\_00010.jpg



Looking at depression on levee crown. (Fall 2015)

LM Start	<b>9.57</b>	Rating **	A/W	Issue No.	<b>14 (cont)</b>
LM End	<b>9.57</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP\_2018\_NA0010\_118\_14\_20180307\_00011.jpg



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

LM Start	<b>9.57</b>	Rating **	A/W	Issue No.	<b>14 (cont)</b>
LM End	<b>9.57</b>	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : SP\_2018\_NA0010\_118\_14\_20180307\_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 M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	9.64	Rating **	A/W	Issue No.	1226	
LM End	9.64	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.294845 °	37.294845 °	
				-120.840580 °	-120.840580 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33683						
DS_ID:19628						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 4.5 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 9.67)].						
FS Date: 4/9/2014						

Photo 1 of 1 : UCIP\_SP\_2018\_33683\_60880.jpg



Pipe, flapgate, and headwall visible on WS toe.

LM Start	9.89	Rating **	A/W	Issue No.	112
LM End	9.90	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.291796 °	37.291581 °
				-120.839497 °	-120.839718 °
DWR ID	DWR_NA0010_01_f_2017_112				
Comment Code					
Inspector Comment					
Landowner degraded levee in the 1970's because Water on LS was flooding his property. Landowner has prevented efforts to restore levee. LMA has stated that no water from the waterside of the levee has ever backed up through the degraded levee and caused flooding.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_112\_20180307\_00025.jpg



Looking south at the levee bank caving.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.20	Rating **	M	Issue No.	1227	
LM End	10.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 69 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.23)]. FS Date: 4/9/2014						

LM Start	<b>10.20</b>	Rating **	M	Issue No.	<b>1227 (cont)</b>
LM End	<b>10.20</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39253\_60884.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39253\_60886.jpg



Pipe, headwall, and flapgate at WS toe.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.20	Rating **	M	Issue No.	1227 (cont)	
LM End	10.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 69 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.23)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39253\_60885.jpg



Pipe and headwall at LS toe.

LM Start	10.68	Rating **	A/W	Issue No.	1228
LM End	10.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.283740 °	37.283740 °
				-120.833452 °	-120.833452 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33687					
DS_ID:19630					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 7 feet below the crown. Flap gate on the waterside					
(WS) end. Brass cap No. 68 bench mark (BM) on the headwall on the					
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE					
San Joaquin O&M Manual 601.1, 1967, (HLM 10.72)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33687\_60890.jpg



Pipe and flapgate on Ws toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.69	Rating **	A/W	Issue No.	1229
LM End	10.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.283710 °	37.283710 °
				-120.833329 °	-120.833329 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39254 DS_ID:19631 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 67 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.72)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39254\_60894.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>10.69</b>	Rating **	A/W	Issue No.	<b>1229 (cont)</b>
LM End	<b>10.69</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39254\_60893.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.69	Rating **	A/W	Issue No.	1229 (cont)	
LM End	10.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.283710 °	37.283710 °	
				-120.833329 °	-120.833329 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39254						
DS_ID:19631						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 67 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 10.72)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39254\_60895.jpg



Concrete pipe visible on LS slope.

LM Start	10.98	Rating **	M	Issue No.	1230
LM End	10.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 66 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.00)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39255\_60897.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.98	Rating **	M	Issue No.	1230 (cont)	
LM End	10.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 6 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 66 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 11.00)].						
FS Date: 4/9/2014						

LM Start	<b>10.98</b>	Rating **	M	Issue No.	<b>1230 (cont)</b>
LM End	<b>10.98</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39255\_60899.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39255\_60898.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.14	Rating **	A/W	Issue No.	1231
LM End	11.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.281813 °	37.281813 °
				-120.825409 °	-120.825409 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33690 DS_ID:19633 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 65 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.18)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33690\_60903.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	11.14	Rating **	A/W	Issue No.	1231 (cont)
LM End	11.14	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33690\_60902.jpg



Pipe and headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.14	Rating **	A/W	Issue No.	1231 (cont)	
LM End	11.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.281813 °	37.281813 °	
				-120.825409 °	-120.825409 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33690						
DS_ID:19633						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 5 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 65 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 11.18)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33690\_60901.jpg



Pipe and headwall at LS toe.

LM Start	11.37	Rating **	A/W	Issue No.	1232
LM End	11.37	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.275518 °	37.275518 °
				-120.826052 °	-120.826052 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47100					
DS_ID:19814					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through levee, 12 feet below the crown. Two metal cutoff walls. Flap					
gate on the waterside (WS) end. Concrete headwall on the landside					
(LS) end. Concrete saddle and apron on the WS end. [Additional					
Reference(s): DWR Levee Log, 2002].					
FS Date: 4/18/2014					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	1233
LM End	11.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 62 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36103\_65362.jpg



View of waterward side.

LM Start	<b>11.49</b>	Rating **	M	Issue No.	<b>1233 (cont)</b>
LM End	<b>11.49</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36103\_65364.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	1233 (cont)	
LM End	11.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 62 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36103\_65363.jpg



Inside view of pipe from waterward side.

LM Start	11.78	Rating **	M	Issue No.	1234	
LM End	11.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 61 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.76)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36105\_65372.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.78	Rating **	M	Issue No.	1234 (cont)	
LM End	11.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 61 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.76)]. FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36105\_65371.jpg



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

LM Start	<b>11.78</b>	Rating **	M	Issue No.	<b>1234 (cont)</b>
LM End	<b>11.78</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36105\_65373.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.12	Rating **	M	Issue No.	1235
LM End	12.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.11)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36106\_65378.jpg



View of waterward side--flap gate visible on waterward toe.

LM Start	12.12	Rating **	M	Issue No.	1235 (cont)
LM End	12.12	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36106\_65379.jpg



Flap gate and concrete headwall visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.12	Rating **	M	Issue No.	1235 (cont)
LM End	12.12	Issue Type +	Ma	Location *	
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	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 corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.11)]. FS Date: 4/25/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_36106\_65377.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.95	Rating **	M	Issue No.	1236
LM End	12.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.94)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36146\_65412.jpg



View of waterward side.

LM Start	<b>12.95</b>	Rating **	M	Issue No.	<b>1236 (cont)</b>
LM End	<b>12.95</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36146\_65411.jpg



Flap gate and concrete headwall visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.95	Rating **	M	Issue No.	1236 (cont)	
LM End	12.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.94)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36146\_65410.jpg



View of landward side--concrete headwall visible covered by dense vegetation.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.49	Rating **	M	Issue No.	1237
LM End	13.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.48)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36109\_65389.jpg



View of waterward side.

LM Start	<b>13.49</b>	Rating **	M	Issue No.	<b>1237 (cont)</b>
LM End	<b>13.49</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36109\_65387.jpg



View of flap gate and pipe through levee on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.49	Rating **	M	Issue No.	1237 (cont)	
LM End	13.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.48)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36109\_65388.jpg



View of landward side.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	1238	
LM End	13.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.58)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39256\_65418.jpg



View of waterward side.

LM Start	<b>13.59</b>	Rating **	M	Issue No.	<b>1238 (cont)</b>
LM End	<b>13.59</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39256\_65417.jpg



Dense vegetation on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	1238 (cont)	
LM End	13.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.58)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39256\_65416.jpg



Concrete headwall visible from landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.82	Rating **	M	Issue No.	1239
LM End	13.82	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.81)]. FS Date: 4/25/2014					

Photo 1 of 1 : UCIP\_SP\_2018\_36544\_66286.jpg



Indicators of crossing visible from aerial photograph.

LM Start	14.22	Rating **	M	Issue No.	1240
LM End	14.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.21)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36166\_65449.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	14.22	Rating **	M	Issue No.	1240 (cont)	
LM End	14.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.21)]. FS Date: 4/25/2014						

LM Start	<b>14.22</b>	Rating **	M	Issue No.	<b>1240 (cont)</b>
LM End	<b>14.22</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36166\_65452.jpg



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

Photo 3 of 3 : UCIP\_SP\_2018\_36166\_65448.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	14.65	Rating **	M	Issue No.	1241
LM End	14.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.65)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36167\_65455.jpg



View of waterward side.

LM Start	<b>14.65</b>	Rating **	M	Issue No.	<b>1241 (cont)</b>
LM End	<b>14.65</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36167\_65454.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	14.65	Rating **	M	Issue No.	1241 (cont)	
LM End	14.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.65)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36167\_65453.jpg



Concrete headwall located on landward toe.

LM Start	15.29	Rating **	M	Issue No.	1242	
LM End	15.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.29)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36168\_65459.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.29	Rating **	M	Issue No.	1242 (cont)	
LM End	15.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.29)]. FS Date: 4/25/2014						

LM Start	15.29	Rating **	M	Issue No.	1242 (cont)
LM End	15.29	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36168\_65457.jpg



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

Photo 3 of 3 : UCIP\_SP\_2018\_36168\_65458.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.58	Rating **	M	Issue No.	1243
LM End	15.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.57)]. FS Date: 4/25/2014					

LM Start	<b>15.58</b>	Rating **	M	Issue No.	<b>1243 (cont)</b>
LM End	<b>15.58</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36169\_65464.jpg



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

Photo 2 of 3 : UCIP\_SP\_2018\_36169\_65463.jpg



View of waterward slope covered by dense vegetation.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.58	Rating **	M	Issue No.	1243 (cont)	
LM End	15.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.57)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36169\_65462.jpg



Concrete headwall visible on landward toe--dense vegetation blocking inlet.

LM Start	15.82	Rating **	M	Issue No.	1244	
LM End	15.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.81)].						
FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36171\_65471.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1244 (cont)	
LM End	15.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.81)]. FS Date: 4/25/2014						

LM Start	<b>15.82</b>	Rating **	M	Issue No.	<b>1244 (cont)</b>
LM End	<b>15.82</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36171\_65470.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36171\_65469.jpg



Side view of pipe and flap gate on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.09	Rating **	M	Issue No.	1245
LM End	16.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.09)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36172\_65476.jpg



View of waterward side.

LM Start	<b>16.09</b>	Rating **	M	Issue No.	<b>1245 (cont)</b>
LM End	<b>16.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36172\_65475.jpg



Flap gate visible on waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.09	Rating **	M	Issue No.	1245 (cont)	
LM End	16.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.09)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36172\_65474.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.15	Rating **	M	Issue No.	1246
LM End	16.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.15)]. FS Date: 4/25/2014					

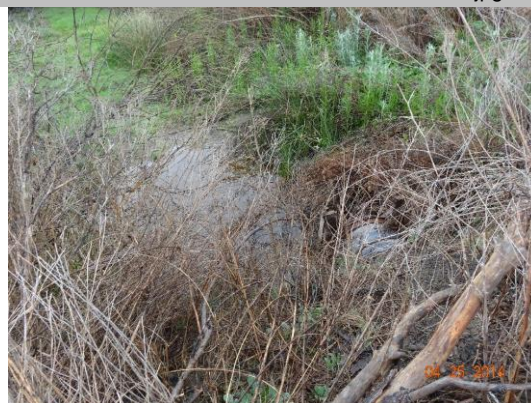
Photo 1 of 3 : UCIP\_SP\_2018\_39257\_65480.jpg



View of waterward side.

LM Start	<b>16.15</b>	Rating **	M	Issue No.	<b>1246 (cont)</b>
LM End	<b>16.15</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39257\_65479.jpg



Crossing visible on waterward side under dense vegetation.

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

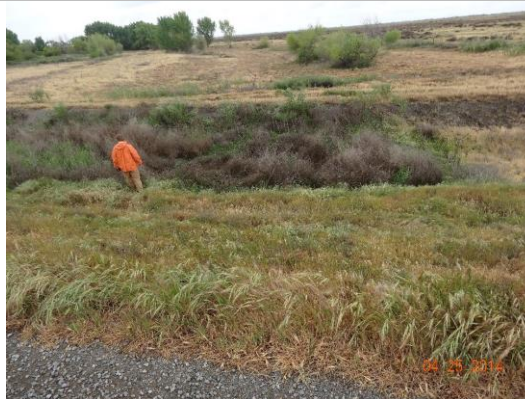
**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.15	Rating **	M	Issue No.	1246 (cont)	
LM End	16.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.15)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39257\_65478.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1247
LM End	16.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.72)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39258\_66288.jpg



View of levee crown at crossing.

LM Start	<b>16.72</b>	Rating **	M	Issue No.	<b>1247 (cont)</b>
LM End	<b>16.72</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39258\_66289.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1247 (cont)	
LM End	16.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.72)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39258\_66287.jpg



View of flap gate visible on waterward side.

LM Start	16.72	Rating **	M	Issue No.	1248
LM End	16.72	Issue Type +	En	Location *	
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 gravity drainage pipe through the levee, at an unknown depth. Concrete standpipe visible on the landside (LS). This pipe was field discovered. FS Date: 4/25/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_39360\_71487.jpg



View of pipe located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1248 (cont)	
LM End	16.72	Issue Type +	En	Location *		
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 gravity drainage pipe through the levee, at an unknown depth. Concrete standpipe visible on the landside (LS). This pipe was field discovered.						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_39360\_71486.jpg



View of landward side.

LM Start	17.01	Rating **	M	Issue No.	1249	
LM End	17.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.01)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39259\_65518.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.01	Rating **	M	Issue No.	1249 (cont)
LM End	17.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.01)].  
FS Date: 4/25/2014

LM Start	<b>17.01</b>	Rating **	M	Issue No.	<b>1249 (cont)</b>
LM End	<b>17.01</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39259\_65519.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39259\_65517.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.19	Rating **	M	Issue No.	1250	
LM End	17.19	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.19)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39260\_65525.jpg



View of waterward side.

LM Start	17.19	Rating **	M	Issue No.	1250 (cont)
LM End	17.19	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39260\_65521.jpg



Pipe visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.19	Rating **	M	Issue No.	1250 (cont)	
LM End	17.19	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.19)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39260\_65520.jpg



Flap gate visible on waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.26	Rating **	M	Issue No.	1251
LM End	17.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.26)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36203\_65551.jpg



View of waterward slope.

LM Start	17.26	Rating **	M	Issue No.	1251 (cont)
LM End	17.26	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36203\_65552.jpg



Pipe visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.26	Rating **	M	Issue No.	1251 (cont)	
LM End	17.26	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.26)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36203\_65554.jpg



View of landward side.

LM Start	17.52	Rating **	M	Issue No.	1252	
LM End	17.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.53)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36204\_65547.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.52	Rating **	M	Issue No.	1252 (cont)	
LM End	17.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.53)]. FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36204\_65546.jpg



Flap gate visible on waterward side.

LM Start	<b>17.52</b>	Rating **	M	Issue No.	<b>1252 (cont)</b>
LM End	<b>17.52</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36204\_65545.jpg



View of landward side--riser at levee toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.18	Rating **	M	Issue No.	1253	
LM End	18.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.19)].						
FS Date: 4/25/2014						

LM Start	<b>18.18</b>	Rating **	M	Issue No.	<b>1253 (cont)</b>
LM End	<b>18.18</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39261\_65557.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39261\_65556.jpg



Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.18	Rating **	M	Issue No.	1253 (cont)	
LM End	18.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.19)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39261\_65555.jpg



View of landward side.

LM Start	18.45	Rating **	A/W	Issue No.	1254
LM End	18.45	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.207538 °	37.207538 °
				-120.767679 °	-120.767679 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36206					
DS_ID:19582					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.45)].					
FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36206\_65563.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.45	Rating **	A/W	Issue No.	1254 (cont)	
LM End	18.45	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.207538 °	37.207538 °	
				-120.767679 °	-120.767679 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36206						
DS_ID:19582						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.4 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 18.45)].						
FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36206\_65562.jpg



View of waterward slope.

LM Start	<b>18.45</b>	Rating **	A/W	Issue No.	<b>1254 (cont)</b>
LM End	<b>18.45</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36206\_65561.jpg



Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	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 : SP\_2018\_NA0010\_118\_27\_20180307\_00016.jpg



Looking at prunings on waterward shoulder and slope.

LM Start	18.79	Rating **	M	Issue No.	1255	
LM End	18.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.79)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36246\_65627.jpg



Overview of levee crown and waterward slope.

* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.79	Rating **	M	Issue No.	1255 (cont)	
LM End	18.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.79)]. FS Date: 4/25/2014						

LM Start	<b>18.79</b>	Rating **	M	Issue No.	<b>1255 (cont)</b>
LM End	<b>18.79</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36246\_65623.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36246\_65626.jpg



Overview of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.79	Rating **	U	Issue No.	94
LM End	18.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.204913 °	37.204913 °
				-120.762412 °	-120.762412 °
DWR ID	DWR_NA0010_01_s_2018_94				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes on landward slope.					

LM Start	<b>18.79</b>	Rating **	U	Issue No.	<b>94 (cont)</b>
LM End	<b>18.79</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_118\_94\_20180420\_00274.jpg



Looking at large rodent hole on landward slope. (Spring 2018)

Photo 2 of 2 : SP\_2018\_NA0010\_118\_94\_20180420\_00275.jpg



Looking at typical view of rodent holes with this section. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.17	Rating **	M	Issue No.	1256 (cont)	
LM End	19.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.17)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39263\_65632.jpg



Inside view of CMP riser.

LM Start	19.32	Rating **	M	Issue No.	1257
LM End	19.32	Issue Type +	En	Location *	
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 drainage discharge pipe through the levee, at an unknown depth. Pump station and electrical panel on the landside (LS). This pipe was field discovered.					
FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39266\_71421.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.32	Rating **	M	Issue No.	1257 (cont)	
LM End	19.32	Issue Type +	En	Location *		
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 drainage discharge pipe through the levee, at an unknown depth. Pump station and electrical panel on the landside (LS). This pipe was field discovered.						
FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39266\_71420.jpg



Overview of levee crown at crossing.

LM Start	<b>19.32</b>	Rating **	M	Issue No.	<b>1257 (cont)</b>
LM End	<b>19.32</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39266\_71423.jpg



View of waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.32	Rating **	M	Issue No.	1258	
LM End	19.32	Issue Type +	En	Location *		
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 drainage discharge pipe through the levee, at an unknown depth. Pump station and electrical panel on the landside (LS). This pipe was field discovered.						
FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39267\_71427.jpg



View of landward side.

LM Start	<b>19.32</b>	Rating **	M	Issue No.	<b>1258 (cont)</b>
LM End	<b>19.32</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39267\_71425.jpg



View of levee crown at crossings.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.32	Rating **	M	Issue No.	1258 (cont)
LM End	19.32	Issue Type +	En	Location *	
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 drainage discharge pipe through the levee, at an unknown depth. Pump station and electrical panel on the landside (LS). This pipe was field discovered. FS Date: 4/25/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39267\_71424.jpg



View of waterward slope.

LM Start	19.53	Rating **	M	Issue No.	1259
LM End	19.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.54)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39268\_65641.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.53	Rating **	M	Issue No.	1259 (cont)	
LM End	19.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.54)].						
FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39268\_65640.jpg



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

LM Start	<b>19.53</b>	Rating **	M	Issue No.	<b>1259 (cont)</b>
LM End	<b>19.53</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39268\_65639.jpg



View of landward slope.

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

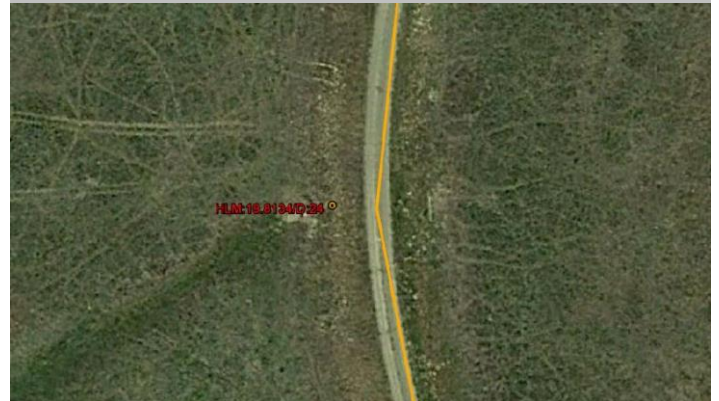
## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.81	Rating **	M	Issue No.	1260
LM End	19.81	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.81)]. FS Date: 4/25/2014					

Photo 1 of 1 : UCIP\_SP\_2018\_36253\_65645.jpg



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

LM Start	20.18	Rating **	M	Issue No.	1261
LM End	20.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.18)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39269\_65648.jpg



Enter photo 1 description or comment here.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.18	Rating **	M	Issue No.	1261 (cont)	
LM End	20.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.18)]. FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39269\_65647.jpg



Enter photo 2 description or comment here.

LM Start	<b>20.18</b>	Rating **	M	Issue No.	<b>1261 (cont)</b>
LM End	<b>20.18</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39269\_65646.jpg



Enter photo 3 description or comment here.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	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 landside slope and toe.					

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

Photo 1 of 2 : SP\_2018\_NA0010\_118\_1184\_20180307\_00030.jpg



Looking north at ramp cut into landward slope.

Photo 2 of 2 : SP\_2018\_NA0010\_118\_1184\_20180307\_00031.jpg



Looking east at ramp cut into landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	<b>20.26</b>	Rating **	M	Issue No.	<b>1262</b>
LM End	<b>20.26</b>	Issue Type +	En	Location *	
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 drainage discharge pipe sleeved through a 24-inch steel pipe through levee, at an unknown depth. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39285\_71446.jpg



Outlet visible on waterward side.

LM Start	<b>20.26</b>	Rating **	M	Issue No.	<b>1262 (cont)</b>
LM End	<b>20.26</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39285\_71445.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.26	Rating **	M	Issue No.	1262 (cont)	
LM End	20.26	Issue Type +	En	Location *		
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 drainage discharge pipe sleeved through a 24-inch steel pipe through levee, at an unknown depth. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39285\_71444.jpg



View of landward side.

LM Start	20.27	Rating **	M	Issue No.	1263	
LM End	20.27	Issue Type +	En	Location *		
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 gravity drainage pipe through the levee, 5 feet below the crown. Flap gate on the waterside (WS) end. No permit for this crossing. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/19/2016						

Photo 1 of 3 : UCIP\_SP\_2018\_49965\_66303.jpg



Overview of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1263 (cont)	
LM End	20.27	Issue Type +	En	Location *		
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 gravity drainage pipe through the levee, 5 feet below the crown. Flap gate on the waterside (WS) end. No permit for this crossing. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/19/2016						

Photo 2 of 3 : UCIP\_SP\_2018\_49965\_66304.jpg



View of WS.

LM Start	<b>20.27</b>	Rating **	M	Issue No.	<b>1263 (cont)</b>
LM End	<b>20.27</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_49965\_66302.jpg



View of WS.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1264	
LM End	20.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.27)].						
FS Date: 4/25/2014						

LM Start	<b>20.27</b>	Rating **	M	Issue No.	<b>1264 (cont)</b>
LM End	<b>20.27</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39878\_66308.jpg



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

Photo 2 of 3 : UCIP\_SP\_2018\_39878\_66309.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1264 (cont)	
LM End	20.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.27)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39878\_66307.jpg



View of landward side.

LM Start	20.27	Rating **	M	Issue No.	1265	
LM End	20.27	Issue Type +	En	Location *		
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 drainage discharge pipe sleeved through a 24-inch steel pipe through levee, at an unknown depth.						
FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39286\_71442.jpg



Outlets visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1265 (cont)	
LM End	20.27	Issue Type +	En	Location *		
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 drainage discharge pipe sleeved through a 24-inch steel pipe through levee, at an unknown depth.						
FS Date: 4/25/2014						

LM Start	<b>20.27</b>	Rating **	M	Issue No.	<b>1265 (cont)</b>
LM End	<b>20.27</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39286\_71441.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39286\_71440.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	21.24	Rating **	U	Issue No.	8
LM End	22.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.181042 °	37.167498 °
				-120.762886 °	-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 waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_8\_20180307\_00005.jpg



Looking downstream at dense veg on waterward slope.

LM Start	21.40	Rating **	M	Issue No.	1266
LM End	21.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.40)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39271\_66312.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	21.40	Rating **	M	Issue No.	1266 (cont)
LM End	21.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.40)]. FS Date: 4/25/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39271\_66313.jpg



Flap gate half way submersed located on waterward side.

LM Start	<b>21.40</b>	Rating **	M	Issue No.	<b>1266 (cont)</b>
LM End	<b>21.40</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39271\_66311.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	21.75	Rating **	M	Issue No.	1267
LM End	21.75	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.76)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39272\_65697.jpg



View of waterward side.

LM Start	<b>21.75</b>	Rating **	M	Issue No.	<b>1267 (cont)</b>
LM End	<b>21.75</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39272\_65695.jpg



Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	21.75	Rating **	M	Issue No.	1267 (cont)	
LM End	21.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 9 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 21.76)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39272\_65696.jpg



View of landward side.

LM Start	22.06	Rating **	U	Issue No.	22
LM End	22.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.172074 °	37.166906 °
				-120.754628 °	-120.749962 °
DWR ID	DWR_NA0010_01_s _ 2012_22				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch has encroached into landside toe and slope.					

Photo 1 of 3 : SP\_2018\_NA0010\_118\_22\_20180307\_00013.jpg



Looking downstream at irrigation ditch at LM 22.06

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	22.06	Rating **	U	Issue No.	22 (cont)	
LM End	22.52	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.172074 °		37.166906 °
				-120.754628 °		-120.749962 °
DWR ID	DWR_NA0010_01_s_2012_22					
Comment Code						
DT : Ditch						
Inspector Comment						
Ditch has encroached into landside toe and slope.						

Photo 2 of 3 : SP\_2018\_NA0010\_118\_22\_20180307\_00014.jpg



Looking downstream at irrigation ditch at landside toe.

LM Start	<b>22.06</b>	Rating **	U	Issue No.	<b>22 (cont)</b>
LM End	<b>22.52</b>	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP\_2018\_NA0010\_118\_22\_20180307\_00015.jpg



Looking upstream at irrigation at landside toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	22.12	Rating **	M	Issue No.	1268	
LM End	22.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Wooden headboards on the landside (LS) end. Brass cap No. 31 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.13)]. FS Date: 4/25/2014						

LM Start	<b>22.12</b>	Rating **	M	Issue No.	<b>1268 (cont)</b>
LM End	<b>22.12</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39273\_65709.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39273\_65707.jpg



Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	22.12	Rating **	M	Issue No.	1268 (cont)	
LM End	22.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 9 feet below the crown. Flap gate on the waterside						
(WS) end. Wooden headboards on the landside (LS) end. Brass cap						
No. 31 bench mark (BM) on the headwall on the LS. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 22.13)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39273\_65708.jpg



View of landward side.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/16/2018 - 4/16/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	24
LM End	1.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296270 °	37.284950 °
				-120.880690 °	-120.871212 °
DWR ID	DWR_NA0010_02A_s_2018_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	U	Issue No.	23
LM End	1.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296270 °	37.284950 °
				-120.880690 °	-120.871212 °
DWR ID	DWR_NA0010_02A_s_2017_23				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Control veg on levee crown and add additional base on levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_119\_23\_20180307\_00011.jpg



Looking downstream at overgrown levee crown.

LM Start	0.00	Rating **	M	Issue No.	29
LM End	7.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296280 °	37.231283 °
				-120.880669 °	-120.811884 °
DWR ID	DWR_NA0010_02A_s_2018_29				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_119\_29\_20180419\_00072.jpg



Looking south at typical view of landward slope. (Spring 2018)

**\* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	30
LM End	7.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296279 °	37.231282 °
				-120.880669 °	-120.811884 °
DWR ID	DWR_NA0010_02A_s_2018_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_119\_30\_20180419\_00073.jpg



Looking north at typical view of waterward slope. (Spring 2018)

LM Start	0.23	Rating **	M	Issue No.	31
LM End	0.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 139 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.24)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36503\_66102.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.23	Rating **	M	Issue No.	31 (cont)	
LM End	0.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 139 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.24)]. FS Date: 5/1/2014						

LM Start	<b>0.23</b>	Rating **	M	Issue No.	<b>31 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36503\_66101.jpg



Fence along waterward side. No headwall was found on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36503\_66100.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	32
LM End	0.66	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 138 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.67)]. FS Date: 5/1/2014					

LM Start	<b>0.66</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>0.66</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36504\_66106.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36504\_66105.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	32 (cont)	
LM End	0.66	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 138 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.67)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36504\_66104.jpg



Concrete headwall found on landward side.

LM Start	0.72	Rating **	U	Issue No.	5
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.287269 °	37.286543 °
				-120.874491 °	-120.873935 °
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.					

Photo 1 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00005.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.72	Rating **	U	Issue No.	5 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.287269 °		37.286543 °
				-120.874491 °		-120.873935 °
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	<b>0.72</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00006.jpg



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

Photo 3 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00007.jpg



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

LM Start	<b>0.72</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00008.jpg



Looking upstream at erosion fall 2017.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.01	Rating **	M	Issue No.	33
LM End	1.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 137 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.02)]. FS Date: 5/1/2014					

LM Start	<b>1.01</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>1.01</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39363\_66113.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39363\_66112.jpg



Pipe visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.01	Rating **	M	Issue No.	33 (cont)	
LM End	1.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 137 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.02)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39363\_66111.jpg



Flap gate visible on waterward side.

LM Start	1.21	Rating **	M	Issue No.	34	
LM End	1.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 136 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.22)].						
FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36506\_66114.jpg



Overview of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.21	Rating **	M	Issue No.	34 (cont)	
LM End	1.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 136 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.22)]. FS Date: 5/1/2014						

LM Start	1.21	Rating **	M	Issue No.	34 (cont)
LM End	1.21	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36506\_66117.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36506\_66116.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.33	Rating **	M	Issue No.	35	
LM End	1.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)]. FS Date: 5/1/2014						

LM Start	<b>1.33</b>	Rating **	M	Issue No.	<b>35 (cont)</b>
LM End	<b>1.33</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36507\_66120.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36507\_66119.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.33	Rating **	M	Issue No.	35 (cont)	
LM End	1.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36507\_66118.jpg



Flap gate and concrete apron visible on waterward side.

LM Start	1.61	Rating **	M	Issue No.	36	
LM End	1.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.62)]. FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36508\_66124.jpg



Overview of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.61	Rating **	M	Issue No.	36 (cont)	
LM End	1.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.62)].						
FS Date: 5/1/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36508\_66123.jpg



Dense vegetation along levee slope and toe.

LM Start	<b>1.61</b>	Rating **	M	Issue No.	<b>36 (cont)</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36508\_66122.jpg



Enter photo 3 description or comment here.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.85	Rating **	M	Issue No.	37
LM End	1.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.86)]. FS Date: 5/1/2014					

LM Start	<b>1.85</b>	Rating **	M	Issue No.	<b>37 (cont)</b>
LM End	<b>1.85</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36509\_66129.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36509\_66128.jpg



Concrete headwall visible on landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.85	Rating **	M	Issue No.	37 (cont)	
LM End	1.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.86)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36509\_66127.jpg



Inside view of pipe from landward side.

LM Start	2.28	Rating **	M	Issue No.	38	
LM End	2.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.30)].						
FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36510\_66133.jpg



View of landward side.

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

View of pipe through levee visible on waterward side.

Page 15 of 34

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.30	Rating **	M	Issue No.	39	
LM End	2.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.32)]. FS Date: 5/1/2014						

LM Start	<b>2.30</b>	Rating **	M	Issue No.	<b>39 (cont)</b>
LM End	<b>2.30</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36511\_66137.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36511\_66136.jpg



Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.30	Rating **	M	Issue No.	39 (cont)	
LM End	2.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.32)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36511\_66138.jpg



Overview of landward slope.

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.					

Photo 1 of 4 : SP\_2018\_NA0010\_119\_2\_20180307\_00001.jpg



Looking northeast at unauthorized ramp on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	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.						

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

Photo 2 of 4 : SP\_2018\_NA0010\_119\_2\_20180307\_00002.jpg



Photo 3 of 4 : SP\_2018\_NA0010\_119\_2\_20180307\_00003.jpg



Looking northwest at unauthorized ramp on waterward slope.

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

Photo 4 of 4 : SP\_2018\_NA0010\_119\_2\_20180307\_00004.jpg



Looking at ramp on landward slope. (Fall 2016)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	40
LM End	2.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.59)]. FS Date: 5/1/2014					

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36512\_66142.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36512\_66141.jpg



Concrete headwall visible on landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	40 (cont)	
LM End	2.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.59)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36512\_66140.jpg



Non-functional crossing concrete headwall and inlet buried on landward side.

LM Start	2.95	Rating **	M	Issue No.	41	
LM End	2.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.96)]. FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36513\_66145.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	41 (cont)	
LM End	2.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.96)]. FS Date: 5/1/2014						

LM Start	<b>2.95</b>	Rating **	M	Issue No.	<b>41 (cont)</b>
LM End	<b>2.95</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36513\_66144.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36513\_66149.jpg



View of slope on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.28	Rating **	M	Issue No.	42
LM End	3.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.29)]. FS Date: 5/1/2014					

LM Start	<b>3.28</b>	Rating **	M	Issue No.	<b>42 (cont)</b>
LM End	<b>3.28</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36514\_66151.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36514\_66153.jpg



Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.28	Rating **	M	Issue No.	42 (cont)	
LM End	3.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.29)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36514\_66152.jpg



View of landward side.

LM Start	3.61	Rating **	M	Issue No.	43	
LM End	3.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.62)]. FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36515\_66155.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.61	Rating **	M	Issue No.	43 (cont)	
LM End	3.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.62)]. FS Date: 5/1/2014						

LM Start	<b>3.61</b>	Rating **	M	Issue No.	<b>43 (cont)</b>
LM End	<b>3.61</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36515\_66154.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36515\_66156.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.94	Rating **	M	Issue No.	44
LM End	3.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.95)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39364\_66161.jpg



View of landward side.

LM Start	<b>3.94</b>	Rating **	M	Issue No.	<b>44 (cont)</b>
LM End	<b>3.94</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39364\_66160.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.94	Rating **	M	Issue No.	44 (cont)	
LM End	3.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.95)].						
FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39364\_66159.jpg



Flap gate and concrete headwall visible through dense vegetation.

LM Start	5.41	Rating **	M	Issue No.	45	
LM End	5.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.43)]. FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36517\_66167.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	5.77	Rating **	M	Issue No.	27
LM End	6.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.256093 °	37.253815 °
				-120.827484 °	-120.824372 °
DWR ID	DWR_NA0010_02A_f_2017_27				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	6.03	Rating **	M	Issue No.	46
LM End	6.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.06)]. FS Date: 5/1/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_36518\_66171.jpg



View of landward side.

* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	6.03	Rating **	M	Issue No.	46 (cont)	
LM End	6.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.06)].						
FS Date: 5/1/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_36518\_66170.jpg



View of waterward side.

LM Start	6.47	Rating **	M	Issue No.	47	
LM End	6.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.50)]. FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36519\_66173.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	6.47	Rating **	M	Issue No.	47 (cont)	
LM End	6.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.50)]. FS Date: 5/1/2014						

LM Start	<b>6.47</b>	Rating **	M	Issue No.	<b>47 (cont)</b>
LM End	<b>6.47</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36519\_66172.jpg



Crossing and flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36519\_66174.jpg



Overview of levee crown and landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	6.85	Rating **	M	Issue No.	22
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 1 of 2 : SP\_2018\_NA0010\_119\_22\_20180307\_00009.jpg



Looking at rodent hole on levee crown.

LM Start	<b>6.85</b>	Rating **	M	Issue No.	<b>22 (cont)</b>
LM End	<b>6.85</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2018\_NA0010\_119\_22\_20180307\_00010.jpg



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

LM Start	6.97	Rating **	M	Issue No.	28
LM End	6.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.241125 °	37.241125 °
				-120.821747 °	-120.821747 °
DWR ID	DWR_NA0010_02A_f_2017_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_119\_28\_20180307\_00015.jpg



Looking northwest at 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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.02	Rating **	M	Issue No.	48
LM End	7.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.05)]. FS Date: 5/1/2014					

LM Start	<b>7.02</b>	Rating **	M	Issue No.	<b>48 (cont)</b>
LM End	<b>7.02</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39365\_66178.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39365\_66177.jpg



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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.02	Rating **	M	Issue No.	48 (cont)	
LM End	7.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.05)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39365\_66176.jpg



View of waterward side.

LM Start	7.74	Rating **	M	Issue No.	49
LM End	7.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.77)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36521\_66183.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.74	Rating **	M	Issue No.	49 (cont)	
LM End	7.74	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.77)]. FS Date: 5/1/2014						

LM Start	<b>7.74</b>	Rating **	M	Issue No.	<b>49 (cont)</b>
LM End	<b>7.74</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36521\_66182.jpg



View of landward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36521\_66181.jpg



View of waterward side--photo taken from levee toe looking towards alignment of crossing.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/16/2018 - 4/16/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.87	Rating **	M	Issue No.	16
LM End	8.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.231209 °	37.221054 °
				-120.811764 °	-120.796934 °
DWR ID	DWR_NA0010_02B_f_2016_16				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Rutting caused by driving to fast.					

No Photos

LM Start	8.13	Rating **	M	Issue No.	168
LM End	8.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.16)].					
FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39366\_66184.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.13	Rating **	M	Issue No.	168 (cont)	
LM End	8.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.16)].						
FS Date: 5/14/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39366\_66185.jpg



Overview of levee crown at crossing.

LM Start	<b>8.13</b>	Rating **	M	Issue No.	<b>168 (cont)</b>
LM End	<b>8.13</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39366\_66186.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.14	Rating **	M	Issue No.	15
LM End	8.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.228224 °	37.228224 °
				-120.808622 °	-120.808622 °
DWR ID	DWR_NA0010_02B_f_2017_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on the crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_15\_20180307\_00004.jpg



Looking southeast at the crown.

LM Start	8.22	Rating **	M	Issue No.	22
LM End	13.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.227430 °	37.172238 °
				-120.807532 °	-120.761192 °
DWR ID	DWR_NA0010_02B_s_2018_22				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	8.22	Rating **	M	Issue No.	21
LM End	13.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.227430 °	37.172237 °
				-120.807532 °	-120.761192 °
DWR ID	DWR_NA0010_02B_s_2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	<b>8.46</b>	Rating **	M	Issue No.	<b>169 (cont)</b>
LM End	<b>8.46</b>	Issue Type +	Ma	Location *	

Overview of levee crown at crossing.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	169 (cont)	
LM End	8.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.48)].						
FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39367\_66194.jpg



View of waterward side.

LM Start	8.83	Rating **	M	Issue No.	170
LM End	8.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.86)]. FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_42503\_66200.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.83	Rating **	M	Issue No.	170 (cont)	
LM End	8.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.86)]. FS Date: 5/14/2014						

LM Start	<b>8.83</b>	Rating **	M	Issue No.	<b>170 (cont)</b>
LM End	<b>8.83</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_42503\_66199.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_42503\_66201.jpg



View of waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.00	Rating **	M	Issue No.	171
LM End	9.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.02)]. FS Date: 5/14/2014					

LM Start	<b>9.00</b>	Rating **	M	Issue No.	<b>171 (cont)</b>
LM End	<b>9.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36525\_66208.jpg



View of waterward side--pipe and flap gate visible.

Photo 2 of 3 : UCIP\_SP\_2018\_36525\_66207.jpg



View of flap gate visible from waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.00	Rating **	M	Issue No.	171 (cont)	
LM End	9.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.02)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36525\_66206.jpg



View of landward side.

LM Start	9.17	Rating **	M	Issue No.	172	
LM End	9.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.20)]. FS Date: 5/14/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_40443\_66211.jpg



View of landward side.

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.17	Rating **	M	Issue No.	172 (cont)
LM End	9.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.220520 °	37.220520 °
				-120.793277 °	-120.793277 °
DWR ID					

Comment Code

[illegible]

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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.20)].  
FS Date: 5/14/2014

LM Start	<b>9.17</b>	Rating **	M	Issue No.	<b>172 (cont)</b>
LM End	<b>9.17</b>	Issue Type +	Ma	Location *	

View of waterward side.

Pipe visible on waterward side.

* 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                      AWW : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	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 limbs on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_17\_20180419\_00046.jpg



Looking north at broken tree limbs and branches on landward slope.  
(Spring 2018)

LM Start	9.43	Rating **	M	Issue No.	173	
LM End	9.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.46)]. FS Date: 5/14/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36527\_66217.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.43	Rating **	M	Issue No.	173 (cont)	
LM End	9.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.46)].						
FS Date: 5/14/2014						

LM Start	<b>9.43</b>	Rating **	M	Issue No.	<b>173 (cont)</b>
LM End	<b>9.43</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36527\_66216.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36527\_66215.jpg



Concrete headwall visible on landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.60	Rating **	M	Issue No.	18
LM End	9.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.220794 °	37.220794 °
				-120.785721 °	-120.785721 °
DWR ID	DWR_NA0010_02B_f_2017_18				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_18\_20180307\_00005.jpg



Looking southeast at waterside slope.

LM Start	9.75	Rating **	U	Issue No.	23
LM End	9.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.219083 °	37.219083 °
				-120.784327 °	-120.784327 °
DWR ID	DWR_NA0010_02B_s_2017_23				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_120\_23\_20180307\_00009.jpg



Looking south at landside slope.

LM Start	<b>9.75</b>	Rating **	U	Issue No.	<b>23 (cont)</b>
LM End	<b>9.75</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_120\_23\_20180307\_00010.jpg



Looking west at untrimmed trees 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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.83	Rating **	M	Issue No.	24
LM End	9.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.218037 °	37.218037 °
				-120.784199 °	-120.784199 °
DWR ID	DWR_NA0010_02B_s_2018_24				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree limbs and branches for landward berm.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_24\_20180419\_00047.jpg



Looking west at dead tree limbs and branches on landward slope.  
(Spring 2018)

LM Start	10.09	Rating **	M	Issue No.	174
LM End	10.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.12)].					
FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36528\_66224.jpg



Overview of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	10.09	Rating **	M	Issue No.	174 (cont)	
LM End	10.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.12)]. FS Date: 5/14/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36528\_66226.jpg



View of waterward slope.

LM Start	<b>10.09</b>	Rating **	M	Issue No.	<b>174 (cont)</b>
LM End	<b>10.09</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36528\_66222.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	10.78	Rating **	M	Issue No.	175
LM End	10.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.81)]. FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_42504\_66231.jpg



View of landward side.

LM Start	<b>10.78</b>	Rating **	M	Issue No.	<b>175 (cont)</b>
LM End	<b>10.78</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_42504\_66232.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	10.78	Rating **	M	Issue No.	175 (cont)	
LM End	10.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.81)].						
FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_42504\_66234.jpg



View of pipe visible on waterward side.

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 landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_14\_20180307\_00003.jpg



Looking at prunings on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	11.14	Rating **	M	Issue No.	176
LM End	11.14	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.17)]. FS Date: 5/14/2014					

LM Start	11.14	Rating **	M	Issue No.	176 (cont)
LM End	11.14	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36530\_66236.jpg



View of landward slope.

Photo 2 of 3 : UCIP\_SP\_2018\_36530\_66235.jpg



Slide gate visible on landward side blocked by vegetation.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	11.14	Rating **	M	Issue No.	176 (cont)	
LM End	11.14	Issue Type +	En	Location *		
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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.17)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36530\_66238.jpg



View of waterward side.

LM Start	11.40	Rating **	M	Issue No.	177	
LM End	11.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.43)]. FS Date: 5/14/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36531\_66241.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	11.40	Rating **	M	Issue No.	177 (cont)	
LM End	11.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.43)]. FS Date: 5/14/2014						

LM Start	<b>11.40</b>	Rating **	M	Issue No.	<b>177 (cont)</b>
LM End	<b>11.40</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36531\_66240.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36531\_66239.jpg



Flap gate visible on waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

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 landside slope.					

LM Start	12.21	Rating **	M	Issue No.	1 (cont)
LM End	12.21	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_120\_1\_20180307\_00001.jpg



Looking northwest at tree limb on waterward slope.

Photo 2 of 2 : SP\_2018\_NA0010\_120\_1\_20180307\_00002.jpg



Looking southwest at tree limb on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	13.18	Rating **	M	Issue No.	178
LM End	13.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.5 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.22)]. FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39370\_66245.jpg



View of landward side.

LM Start	<b>13.18</b>	Rating **	M	Issue No.	<b>178 (cont)</b>
LM End	<b>13.18</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39370\_66244.jpg



Overview of landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	13.18	Rating **	M	Issue No.	178 (cont)	
LM End	13.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.5 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.22)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39370\_66243.jpg



View of waterward side.

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 waterside slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_120\_167\_20180307\_00011.jpg



Looking southeast at waterside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	13.42	Rating **	U	Issue No.	167 (cont)	
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 waterside slope.						

Photo 2 of 2 : SP\_2018\_NA0010\_120\_167\_20180307\_00012.jpg



Looking south at untrimmed trees on waterward slope.

LM Start	13.64	Rating **	U	Issue No.	19
LM End	13.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.173767 °	37.172157 °
				-120.761018 °	-120.761200 °
DWR ID	DWR_NA0010_02B_s_2017_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_120\_19\_20180307\_00006.jpg



Looking north at landside slope.

LM Start	<b>13.64</b>	Rating **	U	Issue No.	<b>19 (cont)</b>
LM End	<b>13.75</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_120\_19\_20180307\_00007.jpg



Looking northwest at 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**

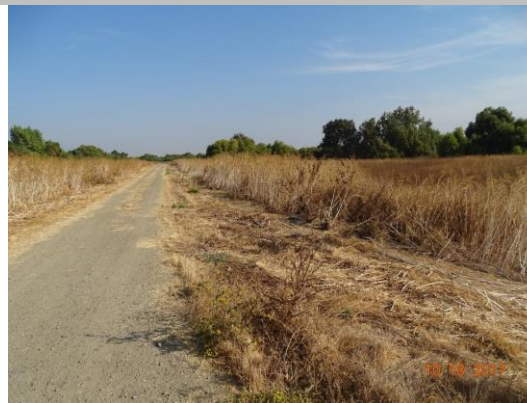
**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	13.64	Rating **	U	Issue No.	20
LM End	13.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.173767 °	37.172157 °
				-120.761018 °	-120.761200 °
DWR ID	DWR_NA0010_02B_s_2017_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_20\_20180307\_00008.jpg



Looking north at waterside slope.

LM Start	13.67	Rating **	M	Issue No.	179
LM End	13.67	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Concrete cutoff wall at the centerline of the pipe. Flap gate on the landside (LS) end. Screw gate on the waterside (WS) end with accessible walkway. (Plans to install a 24-inch reinforced concrete pipe through the levee authorized under Permit No. 14138, 1985 - United States Fish and Wildlife Service). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/14/2014					

No Photos

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/17/2018 - 4/17/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.111779 °	37.088905 °
				-120.587508 °	-120.566860 °
DWR ID	DWR_NA0010_03_s _ 2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	9
LM End	2.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.111778 °	37.088905 °
				-120.587508 °	-120.566860 °
DWR ID	DWR_NA0010_03_s _ 2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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 landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_121\_67\_20180307\_00004.jpg



Looking southwest at the landside shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	68
LM End	0.42	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.43)].					
FS Date: 4/17/2014					

LM Start	<b>0.42</b>	Rating **	M	Issue No.	<b>68 (cont)</b>
LM End	<b>0.42</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34083\_61941.jpg



Concrete structure and flap gate visible on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_34083\_61940.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	68 (cont)	
LM End	0.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.43)].						
FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34083\_61944.jpg



View of landward side.

LM Start	0.43	Rating **	M	Issue No.	6
LM End	0.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.106121 °	37.106121 °
				-120.585680 °	-120.585680 °
DWR ID	DWR_NA0010_03_f_2017_6				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_121\_6\_20180307\_00002.jpg



Looking east at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.76	Rating **	A/W	Issue No.	69	
LM End	0.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.102964 °	37.102964 °	
				-120.581421 °	-120.581421 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36534						
DS_ID:19692						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.3 feet below the crown. Flap gate on the waterside						
(WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.77)].						
FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36534\_66248.jpg



View of waterward slope.

LM Start	<b>0.76</b>	Rating **	A/W	Issue No.	<b>69 (cont)</b>
LM End	<b>0.76</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36534\_66249.jpg



Concrete structure located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.76	Rating **	A/W	Issue No.	69 (cont)	
LM End	0.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.102964 °	37.102964 °	
				-120.581421 °	-120.581421 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36534						
DS_ID:19692						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.3 feet below the crown. Flap gate on the waterside						
(WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.77)].						
FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36534\_66251.jpg



View of landward slope.

LM Start	0.83	Rating **	M	Issue No.	7
LM End	0.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.102190 °	37.102190 °
				-120.580717 °	-120.580717 °
DWR ID	DWR_NA0010_03_f_2017_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_121\_7\_20180307\_00003.jpg



Looking southeast at the waterside shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	<b>1.54</b>	Rating **	M	Issue No.	<b>65</b>							
LM End	<b>1.54</b>	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

LM Start	<b>1.71</b>	Rating **	M	Issue No.	<b>70</b>							
LM End	<b>1.71</b>	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP LMA Responsibility		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 corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.72)]. FS Date: 4/17/2014												

Photo 1 of 3 : UCIP\_SP\_2018\_39371\_66252.jpg



View of levee crown at crossing.

* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.71	Rating **	M	Issue No.	70 (cont)	
LM End	1.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.72)].						
FS Date: 4/17/2014						

LM Start	<b>1.71</b>	Rating **	M	Issue No.	<b>70 (cont)</b>
LM End	<b>1.71</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39371\_66254.jpg



Concrete structure located on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39371\_66253.jpg



View of waterward side--channel.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.04	Rating **	M	Issue No.	71	
LM End	2.04	Issue Type +	En	Location *		
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 corrugated metal irrigation discharge pipe through the levee, 6.6 feet below the crown. Pump on the riverbank. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 4/17/2014						

LM Start	<b>2.04</b>	Rating **	M	Issue No.	<b>71 (cont)</b>
LM End	<b>2.04</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36543\_66281.jpg



Slide gate and concrete structure located on waterward slope.

Photo 2 of 3 : UCIP\_SP\_2018\_36543\_66282.jpg



View of walkway and berm on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.04	Rating **	M	Issue No.	71 (cont)	
LM End	2.04	Issue Type +	En	Location *		
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 corrugated metal irrigation discharge pipe through the levee, 6.6 feet below the crown. Pump on the riverbank. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36543\_66280.jpg



Pump and damage walkway located on waterward side.

LM Start	2.05	Rating **	U	Issue No.	5
LM End	2.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.089289 °	37.089289 °
				-120.567463 °	-120.567463 °
DWR ID	DWR_NA0010_03_s_2018_5				
Comment Code					
MA : Material					
Inspector Comment					
Two large concrete blocks on landward toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_121\_5\_20180420\_00017.jpg



Looking southwest at concrete blocks on landward toe. (Spring 2018)

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/17/2018 - 4/17/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.112601 °	°
				-120.589042 °	°
DWR ID	DWR_NA0010_04_s_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_122\_9\_20180420\_00023.jpg



Looking north at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	10
LM End	1.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.112601 °	°
				-120.589042 °	°
DWR ID	DWR_NA0010_04_s_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_122\_10\_20180420\_00024.jpg



Looking north at typical view of waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	11	
LM End	0.03	Issue Type +	En	Location *		
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure.						
FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_40529\_61969.jpg



View of concrete structure located on landward side.

LM Start	<b>0.03</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_40529\_61968.jpg



View of levee crown.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	11 (cont)	
LM End	0.03	Issue Type +	En	Location *		
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_40529\_61967.jpg



Concrete headwall located on waterward side.

LM Start	0.04	Rating **	M	Issue No.	12
LM End	0.04	Issue Type +	En	Location *	
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36875\_67308.jpg



View of concrete structure located on landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	12 (cont)	
LM End	0.04	Issue Type +	En	Location *		
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure. FS Date: 4/17/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36875\_67307.jpg



View of levee crown.

LM Start	<b>0.04</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>0.04</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36875\_67306.jpg



Concrete headwall located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	13
LM End	0.04	Issue Type +	En	Location *	
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure.					
FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36876\_67318.jpg



View of concrete structure located on landward side.

LM Start	<b>0.04</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.04</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36876\_67317.jpg



View of levee crown.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	13 (cont)	
LM End	0.04	Issue Type +	En	Location *		
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36876\_67316.jpg



Concrete headwall located on waterward side.

LM Start	0.04	Rating **	M	Issue No.	14
LM End	0.04	Issue Type +	En	Location *	
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36877\_67328.jpg



View of concrete structure located on landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	14 (cont)	
LM End	0.04	Issue Type +	En	Location *		
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: 72-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 21 feet below the crown. Slide gate on the waterside (WS). Concrete headwall on each end. Landside (LS) slope cobble revetted. Flashboards on the downstream side of the structure.						
FS Date: 4/17/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36877\_67327.jpg



View of levee crown.

LM Start	<b>0.04</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.04</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36877\_67326.jpg



Concrete headwall located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	15	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 18 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.27)]. FS Date: 4/17/2014						

LM Start	<b>0.24</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.24</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34093\_61982.jpg



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

Photo 2 of 3 : UCIP\_SP\_2018\_34093\_61981.jpg



Sediment blocking flap gate located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	15 (cont)	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 18 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.27)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34093\_61980.jpg



View of waterward side.

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 : SP\_2018\_NA0010\_122\_3\_20180307\_00001.jpg



Looking north at irrigation ditch at landside toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.32	Rating **	M	Issue No.	3 (cont)	
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 2 of 3 : SP\_2018\_NA0010\_122\_3\_20180307\_00002.jpg



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

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

Photo 3 of 3 : SP\_2018\_NA0010\_122\_3\_20180307\_00003.jpg



Looking north at irrigation ditch at landside toe.

LM Start	0.55	Rating **	M	Issue No.	8
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.105957 °	37.105957 °
				-120.588684 °	-120.588684 °
DWR ID	DWR_NA0010_04_f_2017_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_122\_8\_20180307\_00004.jpg



Looking south at 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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.34	Rating **	M	Issue No.	16
LM End	1.34	Issue Type +	En	Location *	
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 3 : UCIP\_SP\_2018\_40530\_61987.jpg



View of waterward side.

LM Start	<b>1.34</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>1.34</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_40530\_61988.jpg



Overview of waterward side and levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.34	Rating **	M	Issue No.	16 (cont)	
LM End	1.34	Issue Type +	En	Location *		
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 3 of 3 : UCIP\_SP\_2018\_40530\_61986.jpg



Pump and walkway located on waterward side.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/3/2018 - 4/5/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	1310
LM End	0.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.217839 °	37.217839 °
				-120.711462 °	-120.711462 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34254					
DS_ID:19844					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)].					
FS Date: 4/22/2014					

No Photos

LM Start	0.00	Rating **	M	Issue No.	131
LM End	33.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.279065 °	36.976694 °
				-120.824258 °	-120.383653 °
DWR ID	DWR_NA0010_05_s _ 2018_131				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	132
LM End	33.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.279065 °	36.976694 °
				-120.824258 °	-120.383653 °
DWR ID	DWR_NA0010_05_s_2018_132				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.08	Rating **	M	Issue No.	1311	
LM End	0.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Concrete U-shaped headwall and flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.07)]. FS Date: 4/9/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39563\_60921.jpg



Pipe, flapgate, and concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.08	Rating **	M	Issue No.	1311 (cont)	
LM End	0.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Concrete U-shaped headwall and flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.07)]. FS Date: 4/9/2014						

LM Start	<b>0.08</b>	Rating **	M	Issue No.	<b>1311 (cont)</b>
LM End	<b>0.08</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39563\_60920.jpg



Pipe, flapgate, and concrete headwall on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39563\_60922.jpg



Pipe and concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.31	Rating **	U	Issue No.	1312
LM End	0.31	Issue Type +	En	Location *	
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 gravity drainage pipe through the levee, 4.5 feet below the crown. Pipe is composed of two materials: corrugated metal pipe (CMP) on the waterside (WS) and steel pipe on the landside (LS). This section of the levee is a degraded section that drops approximately 4 feet within 100 feet of length. This section of the levee is the site of the 1960s levee breach. [Additional Reference(s): USACE Periodic Inspection Report 2014, USACE_CESPK_L05A_2014_p_0014]. FS Date: 7/20/2016					

LM Start	<b>0.31</b>	Rating **	U	Issue No.	<b>1312 (cont)</b>
LM End	<b>0.31</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49967\_71469.jpg



Pipe through levee where levee has been degraded.

Photo 2 of 3 : UCIP\_SP\_2018\_49967\_71467.jpg



Pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.31	Rating **	U	Issue No.	1312 (cont)	
LM End	0.31	Issue Type +	En	Location *		
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 gravity drainage pipe through the levee, 4.5 feet below the crown. Pipe is composed of two materials: corrugated metal pipe (CMP) on the waterside (WS) and steel pipe on the landside (LS). This section of the levee is a degraded section that drops approximately 4 feet within 100 feet of length. This section of the levee is the site of the 1960s levee breach. [Additional Reference(s): USACE Periodic Inspection Report 2014, USACE_CESPK_L05A_2014_p_0014]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49967\_71468.jpg



Pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1313	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)]. FS Date: 4/9/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39584\_60926.jpg



Concrete headwall, pipe, and flapgate on WS toe.

LM Start	<b>0.60</b>	Rating **	M	Issue No.	<b>1313 (cont)</b>
LM End	<b>0.60</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39584\_60925.jpg



Concrete headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1313 (cont)	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39584\_60927.jpg



Pipe and concrete headwall on LS toe. Note vegetation buildup.

LM Start	0.65	Rating **	M	Issue No.	1314
LM End	0.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. Cobble revetment around both ends. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39585\_60931.jpg



Concrete headwall visible off WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	1314 (cont)
LM End	0.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. Cobble revetment around both ends. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)]. FS Date: 4/9/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39585\_60929.jpg



Pipe, flapgate, and headwall at WS toe.

LM Start	<b>0.65</b>	Rating **	M	Issue No.	<b>1314 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39585\_60930.jpg



Concrete headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.85	Rating **	A/W	Issue No.	1315
LM End	0.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.271894 °	37.271894 °
				-120.812224 °	-120.812224 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33707 DS_ID:19759 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.84)]. FS Date: 4/9/2014					

LM Start	<b>0.85</b>	Rating **	A/W	Issue No.	<b>1315 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33707\_60934.jpg



Concrete headwall visible at LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_33707\_60933.jpg



Pipe, flapgate, and headwall at WS toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	1.45	Rating **	A/W	Issue No.	1316 (cont)	
LM End	1.45	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.265804 °		37.265804 °
				-120.804955 °		-120.804955 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33708						
DS_ID:19760						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 21 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-						
shaped headwall on the WS end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.44)].						
FS Date: 4/9/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33708\_60938.jpg



Flapgate on concrete headwall at WS toe.

LM Start	<b>1.45</b>	Rating **	A/W	Issue No.	<b>1316 (cont)</b>
LM End	<b>1.45</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33708\_60937.jpg



Pipe and concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	1.48	Rating **	M	Issue No.	103
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.265507 °	37.265507 °
				-120.804688 °	-120.804688 °
DWR ID	DWR_NA0010_05_s_2017_103				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_103\_20180307\_00015.jpg



Looking east at fallen tree at landward toe.

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 : SP\_2018\_NA0010\_123\_80\_20180307\_00014.jpg



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

LM Start	2.39	Rating **	A/W	Issue No.	113
LM End	2.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.257060 °	37.256981 °
				-120.792823 °	-120.792707 °
DWR ID	DWR_NA0010_05_f_2017_113				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA graded levee crown and backfilled rodent holes. Need to monitor site.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_113\_20180307\_00022.jpg



Looking at rodent holes on the 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 - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	2.84	Rating **	M	Issue No.	1317
LM End	2.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 15 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete U-shaped headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 2.85)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33709\_60943.jpg



Concrete headwall at outlet on WS toe.

LM Start	<b>2.84</b>	Rating **	M	Issue No.	<b>1317 (cont)</b>
LM End	<b>2.84</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33709\_60941.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	2.84	Rating **	M	Issue No.	1317 (cont)	
LM End	2.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 15 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete U-shaped headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 2.85)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33709\_60942.jpg



Concrete headwall and metal gate hoist on LS toe.

LM Start	3.20	Rating **	A/W	Issue No.	6
LM End	3.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.256635 °	37.255170 °
				-120.778935 °	-120.776882 °
DWR ID	DWR_NA0010_05_s_2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No rodent visible but several rodent holes visible on levee crown. LMA graded levee crown and backfilled rodent holes.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_6\_20180307\_00006.jpg



Looking at typical view of rodent holes on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.20	Rating **	M	Issue No.	7
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 1 of 3 : SP\_2018\_NA0010\_123\_7\_20180307\_00007.jpg



Looking south at unauthorized ramp on waterside slope.

LM Start	<b>3.20</b>	Rating **	M	Issue No.	<b>7 (cont)</b>
LM End	<b>3.20</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : SP\_2018\_NA0010\_123\_7\_20180307\_00008.jpg



Looking northwest at unauthorized ramp on waterward slope.

LM Start	<b>3.20</b>	Rating **	M	Issue No.	<b>7 (cont)</b>
LM End	<b>3.20</b>	Issue Type +	En	Location *	WS

Photo 3 of 3 : SP\_2018\_NA0010\_123\_7\_20180307\_00009.jpg



Looking northwest at unauthorized ramp on waterside 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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.34	Rating **	M	Issue No.	1318	
LM End	3.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 14.7 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete U-shaped headwall on each end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 3.33)].						
FS Date: 4/15/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_43055\_60948.jpg



Concrete headwall at WS toe.

LM Start	<b>3.34</b>	Rating **	M	Issue No.	<b>1318 (cont)</b>
LM End	<b>3.34</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_43055\_60946.jpg



Flapgate and Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.34	Rating **	M	Issue No.	1318 (cont)	
LM End	3.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 14.7 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete U-shaped headwall on each end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 3.33)].						
FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_43055\_60951.jpg



Pipe corroded through just behind flapgate at WS toe.

LM Start	3.54	Rating **	M	Issue No.	114
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.255191 °	37.255191 °
				-120.773667 °	-120.773667 °
DWR ID	DWR_NA0010_05_f_2017_114				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree branch on landward slope and toe.					

Photo 1 of 2 : SP\_2018\_NA0010\_123\_114\_20180411\_00307.jpg



Looking upstream at broken tree limb on landward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.54	Rating **	M	Issue No.	114 (cont)	
LM End	3.54	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.255191 °		37.255191 °
				-120.773667 °		-120.773667 °
DWR ID	DWR_NA0010_05_f_2017_114					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Broken tree branch on landward slope and toe.						

Photo 2 of 2 : SP\_2018\_NA0010\_123\_114\_20180307\_00023.jpg



Looking northwest at the landside slope.

LM Start	3.55	Rating **	U	Issue No.	134
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.255202 °	37.255202 °
				-120.773655 °	-120.773655 °
DWR ID	DWR_NA0010_05_s_2018_134				
Comment Code					
Inspector Comment					
Several rodent holes within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_134\_20180411\_00308.jpg



Looking at typical rodent holes within this section. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.68	Rating **	M	Issue No.	1319
LM End	3.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.67)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39586\_61137.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>3.68</b>	Rating **	M	Issue No.	<b>1319 (cont)</b>
LM End	<b>3.68</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39586\_61138.jpg



Pipe, headwall, and flapgate on WS toe.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.68	Rating **	M	Issue No.	1319 (cont)
LM End	3.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.67)]. FS Date: 4/16/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39586\_61136.jpg



Pipe and headwall on LS toe.

LM Start	4.02	Rating **	M	Issue No.	1320
LM End	4.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.02)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39880\_61142.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.02	Rating **	M	Issue No.	1320 (cont)	
LM End	4.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.02)]. FS Date: 4/16/2014						

LM Start	<b>4.02</b>	Rating **	M	Issue No.	<b>1320 (cont)</b>
LM End	<b>4.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39880\_61143.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39880\_61141.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.25	Rating **	M	Issue No.	117
LM End	4.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.246217 °	37.245406 °
				-120.760963 °	-120.759946 °
DWR ID	DWR_NA0010_05_f_2017_117				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	4.27	Rating **	M	Issue No.	1321
LM End	4.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39588\_61146.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.27	Rating **	M	Issue No.	1321 (cont)	
LM End	4.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)]. FS Date: 4/16/2014						

LM Start	<b>4.27</b>	Rating **	M	Issue No.	<b>1321 (cont)</b>
LM End	<b>4.27</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39588\_61145.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39588\_61147.jpg



Concrete headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.55	Rating **	M	Issue No.	1322
LM End	4.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.54)]. FS Date: 4/16/2014 8:16:00 AM					

Photo 1 of 3 : UCIP\_SP\_2018\_39589\_62081.jpg



Pipe, flapgate, and headwall on WS toe.

LM Start	<b>4.55</b>	Rating **	M	Issue No.	<b>1322 (cont)</b>
LM End	<b>4.55</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39589\_62083.jpg



Pipe, flapgate, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.55	Rating **	M	Issue No.	1322 (cont)	
LM End	4.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.54)]. FS Date: 4/16/2014 8:16:00 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_39589\_62082.jpg



Pipe and headwall on LS toe.

LM Start	4.89	Rating **	M	Issue No.	1323
LM End	4.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.89)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39590\_62087.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.89	Rating **	M	Issue No.	1323 (cont)	
LM End	4.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.89)]. FS Date: 4/16/2014						

LM Start	<b>4.89</b>	Rating **	M	Issue No.	<b>1323 (cont)</b>
LM End	<b>4.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39590\_62088.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39590\_62086.jpg



Headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.15	Rating **	M	Issue No.	1324
LM End	5.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.15)]. FS Date: 4/16/2014					

LM Start	5.15	Rating **	M	Issue No.	1324 (cont)
LM End	5.15	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39591\_62091.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39591\_62093.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.15	Rating **	M	Issue No.	1324 (cont)	
LM End	5.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.15)]. FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39591\_62092.jpg



Headwall and pipe on LS toe.

LM Start	5.58	Rating **	A/W	Issue No.	1325
LM End	5.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.238879 °	37.238879 °
				-120.739719 °	-120.739719 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34151					
DS_ID:19774					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.58)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34151\_62096.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.58	Rating **	A/W	Issue No.	1325 (cont)	
LM End	5.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.238879 °	37.238879 °	
				-120.739719 °	-120.739719 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34151						
DS_ID:19774						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.5 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-						
shaped headwall on the WS end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.58)].						
FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34151\_62095.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>5.58</b>	Rating **	A/W	Issue No.	<b>1325 (cont)</b>
LM End	<b>5.58</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34151\_62097.jpg



Headwall and pipe on LS toe with HDPE drain pipe being installed off LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.99	Rating **	M	Issue No.	116
LM End	6.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.236236 °	37.231945 °
				-120.733344 °	-120.728323 °
DWR ID	DWR_NA0010_05_f_2017_116				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.35	Rating **	A/W	Issue No.	1326
LM End	6.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.232589 °	37.232589 °
				-120.728822 °	-120.728822 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34163 DS_ID:19775 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.35)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34163\_62102.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	6.35	Rating **	A/W	Issue No.	1326 (cont)
LM End	6.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.232589 °	37.232589 °
				-120.728822 °	-120.728822 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34163 DS_ID:19775 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.35)]. FS Date: 4/16/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_34163\_62101.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>6.35</b>	Rating **	A/W	Issue No.	<b>1326 (cont)</b>
LM End	<b>6.35</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34163\_62100.jpg



Headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

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

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					
Landside slope damage caused by animal foot traffic.					

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

Photo 1 of 2 : SP\_2018\_NA0010\_123\_1309\_20180307\_00037.jpg



Looking north at damaged landward slope.

Photo 2 of 2 : SP\_2018\_NA0010\_123\_1309\_20180307\_00038.jpg



Looking east at damaged landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	6.70	Rating **	M	Issue No.	115
LM End	6.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.228861 °	37.228861 °
				-120.724579 °	-120.724579 °
DWR ID	DWR_NA0010_05_f_2017_115				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.36	Rating **	M	Issue No.	1327
LM End	7.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.36)].					
FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39592\_62111.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	7.36	Rating **	M	Issue No.	1327 (cont)	
LM End	7.36	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.36)].						
FS Date: 4/22/2014						

LM Start	<b>7.36</b>	Rating **	M	Issue No.	<b>1327 (cont)</b>
LM End	<b>7.36</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39592\_62113.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39592\_62112.jpg



Headwall and pipe on LS toe.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	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	8.09	Rating **	A/W	Issue No.	104
LM End	8.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			37.213580 °	37.213580 °
				-120.706550 °	-120.706550 °
DWR ID	DWR_NA0010_05_s _ 2017_104				
Comment Code					
Inspector Comment					
Replace or repair gate not opening correctly bend fence post. Gate was repaired to allow opening.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_104\_20180307\_00016.jpg



Looking bend gate near hinge point.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	1329
LM End	8.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 16 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-					
shaped headwall on the WS end. [Additional Reference(s): DWR Levee					
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.44)].					
FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34265\_62182.jpg



Headwall, flapgate, and pipe on WS toe

LM Start	<b>8.46</b>	Rating **	M	Issue No.	<b>1329 (cont)</b>
LM End	<b>8.46</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34265\_62183.jpg



Headwall, flapgate, and pipe on WS toe

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	1329 (cont)	
LM End	8.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 16 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-						
shaped headwall on the WS end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.44)].						
FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34265\_62181.jpg



Headwall, slidegate, and pipe on LS toe.

LM Start	8.85	Rating **	A/W	Issue No.	1330
LM End	8.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.205800 °	37.205800 °
				-120.696867 °	-120.696867 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34267					
DS_ID:19764					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)					
FIELD_STRUCT_DESC: [Deadman Creek Drainage Ditch Structure] 1 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)].					
FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34267\_62186.jpg



Concrete headwall at outlet on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.85	Rating **	A/W	Issue No.	1330 (cont)
LM End	8.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.205800 °	37.205800 °
				-120.696867 °	-120.696867 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:34267  
DS\_ID:19764  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: [Deadman Creek Drainage Ditch Structure] 1 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)].  
FS Date: 4/22/2014

LM Start	<b>8.85</b>	Rating **	A/W	Issue No.	<b>1330 (cont)</b>
LM End	<b>8.85</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34267\_62187.jpg



Concrete headwall at outlet on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_34267\_62185.jpg



Slide gate mounted on concrete headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.85	Rating **	A/W	Issue No.	1331
LM End	8.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.205784 °	37.205784 °
				-120.696843 °	-120.696843 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:34268  
DS\_ID:19735  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: [Deadman Creek Drainage Ditch Structure] 2 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)].  
FS Date: 4/22/2014

LM Start	<b>8.85</b>	Rating **	A/W	Issue No.	<b>1331 (cont)</b>
LM End	<b>8.85</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34268\_62190.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_34268\_62191.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.85	Rating **	A/W	Issue No.	1331 (cont)	
LM End	8.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.205784 °	37.205784 °	
				-120.696843 °	-120.696843 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34268 DS_ID:19735 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: [Deadman Creek Drainage Ditch Structure] 2 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)]. FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34268\_62189.jpg



Slide gate mounted on concrete headwall at LS 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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	9.28	Rating **	A/W	Issue No.	1332
LM End	9.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202742 °	37.202742 °
				-120.690064 °	-120.690064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34272					
DS_ID:19766					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 14.8 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.26)].					
FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34272\_62196.jpg



Slide gate in 48-inch CMP riser on WS slope.

LM Start	<b>9.28</b>	Rating **	A/W	Issue No.	<b>1332 (cont)</b>
LM End	<b>9.28</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34272\_62198.jpg



Headwall and pipe at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	9.28	Rating **	A/W	Issue No.	1332 (cont)	
LM End	9.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.202742 °		37.202742 °
				-120.690064 °		-120.690064 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34272						
DS_ID:19766						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 14.8 feet below the crown. Slide gate in a 48-inch						
corrugated metal pipe (CMP) riser on the waterside (WS) slope.						
Concrete headwall on each end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.26)].						
FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34272\_62197.jpg



Headwall and pipe at LS toe.

LM Start	10.06	Rating **	M	Issue No.	1333
LM End	10.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.05)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34273\_62201.jpg



Slidegate in CMP riser on WS slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	10.06	Rating **	M	Issue No.	1333 (cont)	
LM End	10.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.05)].						
FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34273\_62202.jpg



Concrete headwall and pipe on WS toe.

LM Start	<b>10.06</b>	Rating **	M	Issue No.	<b>1333 (cont)</b>
LM End	<b>10.06</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34273\_62200.jpg



Concrete headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.03	Rating **	M	Issue No.	118
LM End	11.45	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.190295 °	37.186938 °
				-120.664607 °	-120.658451 °
DWR ID	DWR_NA0010_05_f_2017_118				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	11.49	Rating **	A/W	Issue No.	1334
LM End	11.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.186471 °	37.186471 °
				-120.657915 °	-120.657915 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34281 DS_ID:19768 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [Deadman Drainage Structure] 1 of 2: 48-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Stairs on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34281\_62219.jpg



Slidegate in CMP riser, concrete headwall and pipe visible on WS slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.49	Rating **	A/W	Issue No.	1334 (cont)
LM End	11.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.186471 °	37.186471 °
				-120.657915 °	-120.657915 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34281 DS_ID:19768 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [Deadman Drainage Structure] 1 of 2: 48-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Stairs on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/22/2014					

LM Start	<b>11.49</b>	Rating **	A/W	Issue No.	<b>1334 (cont)</b>
LM End	<b>11.49</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34281\_62217.jpg



Stairs, concrete headwall, and pipe visible on LS slope.

Photo 3 of 3 : UCIP\_SP\_2018\_34281\_62218.jpg



Inside pipe at LS toe.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.50	Rating **	A/W	Issue No.	1335
LM End	11.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.186458 °	37.186458 °
				-120.657903 °	-120.657903 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34280 DS_ID:19734 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [Deadman Drainage Structure] 2 of 2: 48-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Stairs on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/22/2014					

LM Start	<b>11.50</b>	Rating **	A/W	Issue No.	<b>1335 (cont)</b>
LM End	<b>11.50</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34280\_62216.jpg



Concrete headwall, pipe, and slidegate in CMP riser on WS of levee.

Photo 2 of 3 : UCIP\_SP\_2018\_34280\_62214.jpg



Stairs, concrete headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.65	Rating **	A/W	Issue No.	1336 (cont)	
LM End	11.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.184830 °		37.184830 °
				-120.656016 °		-120.656016 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34283 DS_ID:19704 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.63)]. FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34283\_62223.jpg



Headwall, flapgate, and pipe at WS toe.

LM Start	<b>11.65</b>	Rating **	A/W	Issue No.	<b>1336 (cont)</b>
LM End	<b>11.65</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34283\_62222.jpg



Concrete headwall and pipe at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.72	Rating **	M	Issue No.	105
LM End	19.52	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.184120 °	37.113027 °
				-120.655170 °	-120.559882 °
DWR ID	DWR_NA0010_05_s_2017_105				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	12.01	Rating **	A/W	Issue No.	1337
LM End	12.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.180291 °	37.180291 °
				-120.653931 °	-120.653931 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34284 DS_ID:19705 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the waterside (WS) end. Flashboard attachment on the LS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.99)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34284\_62225.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.01	Rating **	A/W	Issue No.	1337 (cont)	
LM End	12.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.180291 °	37.180291 °	
				-120.653931 °	-120.653931 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34284 DS_ID:19705 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the waterside (WS) end. Flashboard attachment on the LS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.99)]. FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34284\_62227.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>12.01</b>	Rating **	A/W	Issue No.	<b>1337 (cont)</b>
LM End	<b>12.01</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34284\_62226.jpg



Headwall and pipe on LS toe.

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

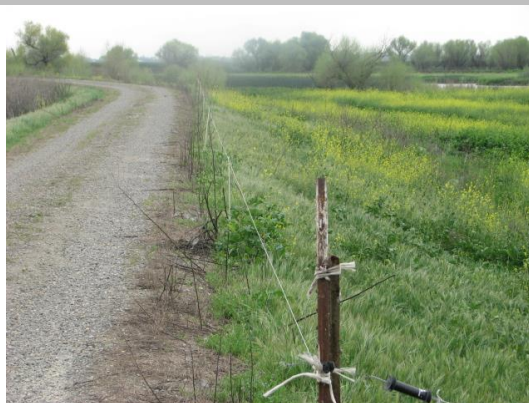
**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.25	Rating **	M	Issue No.	135
LM End	13.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.177671 °	37.167749 °
				-120.651350 °	-120.629438 °
DWR ID	DWR_NA0010_05_s_2018_135				
Comment Code					
FE : Fence					
Inspector Comment					
Electric fence on waterward shoulder.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_135\_20180411\_00309.jpg



Looking upstream at electric fence along waterward shoulder. (Spring 2018)

LM Start	12.40	Rating **	A/W	Issue No.	1338
LM End	12.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.175958 °	37.175958 °
				-120.649798 °	-120.649798 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34285 DS_ID:19706 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. Flashboard attachment on the LS end. Pipe crosses levee at 45 degrees to crown alignment. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.38)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34285\_62230.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.40	Rating **	A/W	Issue No.	1338 (cont)	
LM End	12.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.175958 °		37.175958 °
				-120.649798 °		-120.649798 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34285 DS_ID:19706 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. Flashboard attachment on the LS end. Pipe crosses levee at 45 degrees to crown alignment. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.38)]. FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34285\_62229.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>12.40</b>	Rating **	A/W	Issue No.	<b>1338 (cont)</b>
LM End	<b>12.40</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34285\_62231.jpg



Headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.63	Rating **	M	Issue No.	136
LM End	12.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.175832 °	37.175832 °
				-120.645548 °	-120.645548 °
DWR ID	DWR_NA0010_05_s _ 2018_136				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	12.81	Rating **	M	Issue No.	108
LM End	12.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.175793 °	37.175793 °
				-120.642227 °	-120.642227 °
DWR ID	DWR_NA0010_05_s _ 2017_108				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_108\_20180307\_00017.jpg



Looking east at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.89	Rating **	M	Issue No.	1339	
LM End	12.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Concrete headwall on the landside (LS) end with flashboards. Concrete saddle and apron on the waterside (WS) end with a flap gate. Metal screen at LS toe inlet.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.87)].						
FS Date: 4/22/2014						

LM Start	<b>12.89</b>	Rating **	M	Issue No.	<b>1339 (cont)</b>
LM End	<b>12.89</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39593\_62240.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39593\_62241.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.89	Rating **	M	Issue No.	1339 (cont)
LM End	12.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Concrete headwall on the landside (LS) end with flashboards. Concrete saddle and apron on the waterside (WS) end with a flap gate. Metal screen at LS toe inlet. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.87)]. FS Date: 4/22/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39593\_62239.jpg



Headwall and pipe on LS toe.

LM Start	12.93	Rating **	M	Issue No.	109
LM End	12.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.175780 °	37.175780 °
				-120.640195 °	-120.640195 °
DWR ID	DWR_NA0010_05_s_2017_109				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_109\_20180411\_00310.jpg



Looking at broken tree on landward toe. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.01	Rating **	M	Issue No.	2	
LM End	13.01	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.175576 °		37.175576 °
				-120.638755 °		-120.638755 °
DWR ID	DWR_NA0010_05_s _ 2016_2					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Downed tree on landside toe.						

Photo 1 of 1 : SP\_2018\_NA0010\_123\_2\_20180307\_00005.jpg



Looking west at down tree at landward toe.

LM Start	13.31	Rating **	M	Issue No.	137
LM End	13.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.172667 °	37.169577 °
				-120.634682 °	-120.631392 °
DWR ID	DWR_NA0010_05_s _ 2018_137				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.42	Rating **	M	Issue No.	1340
LM End	13.42	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Flashboard attachment in concrete U-shaped headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.40)]. FS Date: 4/22/2014					

LM Start	<b>13.42</b>	Rating **	M	Issue No.	<b>1340 (cont)</b>
LM End	<b>13.42</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34288\_62244.jpg



Headwall and pipe on LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_34288\_62243.jpg



Headwall, flapgate, and pipe on WS toe.

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

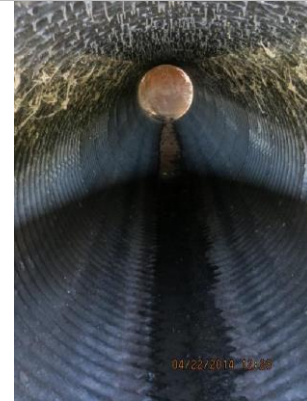
**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.42	Rating **	M	Issue No.	1340 (cont)	
LM End	13.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Flashboard attachment in concrete U-shaped headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.40)]. FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34288\_62242.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	13.72	Rating **	M	Issue No.	1341	
LM End	13.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on concrete headwall at the landside (LS) toe. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.72)]. FS Date: 4/22/2014						

Photo 1 of 2 : UCIP\_SP\_2018\_34824\_62624.jpg



Slide gate at concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.72	Rating **	M	Issue No.	1341 (cont)
LM End	13.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on concrete headwall at the landside (LS) toe. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.72)]. FS Date: 4/22/2014					

Photo 2 of 2 : UCIP\_SP\_2018\_34824\_62623.jpg



Walkway to gatevalve on LS shoulder.

LM Start	13.85	Rating **	A/W	Issue No.	1342
LM End	13.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.166760 °	37.166760 °
				-120.628304 °	-120.628304 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34657					
DS_ID:19710					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 12.4 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 13.83)].					
FS Date: 4/23/2014 4:17:00 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_34657\_62450.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.85	Rating **	A/W	Issue No.	1342 (cont)
LM End	13.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.166760 °	37.166760 °
				-120.628304 °	-120.628304 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34657 DS_ID:19710 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.83)]. FS Date: 4/23/2014 4:17:00 PM					

Photo 2 of 3 : UCIP\_SP\_2018\_34657\_62448.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>13.85</b>	Rating **	A/W	Issue No.	<b>1342 (cont)</b>
LM End	<b>13.85</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34657\_62449.jpg



Concrete wier intake structure and pipe at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	14.46	Rating **	A/W	Issue No.	1343
LM End	14.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.162722 °	37.162722 °
				-120.618571 °	-120.618571 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34656 DS_ID:19711 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Concrete weir inlet structure on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/23/2014					

LM Start	<b>14.46</b>	Rating **	A/W	Issue No.	<b>1343 (cont)</b>
LM End	<b>14.46</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34656\_62446.jpg



Headwall, pipe, and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_34656\_62447.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	14.46	Rating **	A/W	Issue No.	1343 (cont)	
LM End	14.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.162722 °	37.162722 °	
				-120.618571 °	-120.618571 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34656 DS_ID:19711 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Concrete weir inlet structure on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34656\_62445.jpg



Concrete weir inlet at LS toe.

LM Start	15.03	Rating **	A/W	Issue No.	106	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.157570 °		°
				-120.610570 °		°
DWR ID	DWR_NA0010_05_f_2017_106					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:36						
Site Designation:182-2						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.11	Rating **	M	Issue No.	1344
LM End	15.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.09)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34664\_62454.jpg



Headwall and inlet on LS toe.

LM Start	15.11	Rating **	M	Issue No.	1344 (cont)
LM End	15.11	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34664\_62453.jpg



Headwall and inlet on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.11	Rating **	M	Issue No.	1344 (cont)	
LM End	15.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 11.9 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 15.09)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34664\_62452.jpg



Inside pipe at LS toe.

LM Start	15.76	Rating **	M	Issue No.	1345
LM End	15.76	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.74)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39595\_62459.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.76	Rating **	M	Issue No.	1345 (cont)	
LM End	15.76	Issue Type +	En	Location *		
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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.74)]. FS Date: 4/23/2014						

LM Start	<b>15.76</b>	Rating **	M	Issue No.	<b>1345 (cont)</b>
LM End	<b>15.76</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39595\_62456.jpg



Headwall, pipe, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39595\_62458.jpg



Headwall and pipe at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.81	Rating **	M	Issue No.	1346
LM End	15.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.80)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39596\_62464.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>15.81</b>	Rating **	M	Issue No.	<b>1346 (cont)</b>
LM End	<b>15.81</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39596\_62467.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.81	Rating **	M	Issue No.	1346 (cont)	
LM End	15.81	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.80)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39596\_62466.jpg



Headwall and pipe visible at LS toe.

LM Start	16.11	Rating **	M	Issue No.	1
LM End	16.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.145965 °	37.145965 °
				-120.597597 °	-120.597597 °
DWR ID	NA0010U05RM13.85				
Comment Code					
Inspector Comment					
09/20/2017: The erosion was discovered during spring levee inspection. The site is covered by dense vegetation and the measurements of the erosion are estimated. [2017 Site ID:NA0010U05RM13.85]					

Photo 1 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00001.jpg



Looking down at the erosion from the levee top. Note the dense vegetation.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	16.11	Rating **	M	Issue No.	1 (cont)	
LM End	16.12	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.145965 °	37.145965 °	
				-120.597597 °	-120.597597 °	
DWR ID	NA0010U05RM13.85					
Comment Code						
Inspector Comment						
09/20/2017: The erosion was discovered during spring levee inspection. The site is covered by dense vegetation and the measurements of the erosion are estimated. [2017 Site ID:NA0010U05RM13.85]						

LM Start	<b>16.11</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>16.12</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00002.jpg



Close view of the erosion.

Photo 3 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00003.jpg



Close view of the erosion.

LM Start	<b>16.11</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>16.12</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00004.jpg



Looking down at the erosion.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	16.11	Rating **	C	Issue No.	110
LM End	16.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.145965 °	37.142963 °
				-120.597597 °	-120.595087 °
DWR ID	DWR_NA0010_05_s_2017_110				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA repairing eight to ten inch erosion on waterside toe.					

No Photos

LM Start	16.68	Rating **	M	Issue No.	1347	
LM End	16.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.67)]. FS Date: 4/23/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34725\_62469.jpg



Headwall, flapgate, and pipe visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	16.68	Rating **	M	Issue No.	1347 (cont)	
LM End	16.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 10.5 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 16.67)].						
FS Date: 4/23/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34725\_62471.jpg



Headwall, flapgate, and pipe visible on WS toe.

LM Start	<b>16.68</b>	Rating **	M	Issue No.	<b>1347 (cont)</b>
LM End	<b>16.68</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34725\_62470.jpg



Concrete headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	17.22	Rating **	M	Issue No.	1348	
LM End	17.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.20)]. FS Date: 4/23/2014						

LM Start	17.22	Rating **	M	Issue No.	1348 (cont)
LM End	17.22	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39597\_62481.jpg



Headwall, flapgate, and pipe visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39597\_62483.jpg



Headwall, flapgate, and pipe visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	17.22	Rating **	M	Issue No.	1348 (cont)
LM End	17.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.20)]. FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39597\_62482.jpg



Headwall and pipe visible on LS toe.

LM Start	17.54	Rating **	M	Issue No.	1349
LM End	17.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.52)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39599\_62485.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	17.54	Rating **	M	Issue No.	1349 (cont)	
LM End	17.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.52)]. FS Date: 4/23/2014						

LM Start	17.54	Rating **	M	Issue No.	1349 (cont)
LM End	17.54	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39599\_62486.jpg



Pipe and headwall visible on LS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39599\_62488.jpg



Inside pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	18.06	Rating **	U	Issue No.	112
LM End	18.06	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.120690 °	37.120690 °
				-120.582218 °	-120.582218 °
DWR ID	DWR_NA0010_05_s_2017_112				
Comment Code					
PI : Pipe					
Inspector Comment					
Temporary eight inch (3) pipes across levee crown on both slopes.					

Photo 1 of 2 : SP\_2018\_NA0010\_123\_112\_20180307\_00020.jpg



Looking at temporary pipe on waterward slope.

LM Start	<b>18.06</b>	Rating **	U	Issue No.	<b>112 (cont)</b>
LM End	<b>18.06</b>	Issue Type +	En	Location *	CR

Photo 2 of 2 : SP\_2018\_NA0010\_123\_112\_20180307\_00021.jpg



Looking at three temporary pipes 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	18.09	Rating **	M	Issue No.	1350
LM End	18.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 12.4 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 18.07)].					
FS Date: 4/23/2014					

LM Start	<b>18.09</b>	Rating **	M	Issue No.	<b>1350 (cont)</b>
LM End	<b>18.09</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34747\_62494.jpg



Headwall, pipe, and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_34747\_62495.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	18.09	Rating **	M	Issue No.	1350 (cont)	
LM End	18.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 12.4 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 18.07)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34747\_62493.jpg



Headwall and pipe visible on LS toe.

LM Start	18.70	Rating **	M	Issue No.	1351
LM End	18.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.68)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39600\_62499.jpg



Headwall, pipe and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	18.70	Rating **	M	Issue No.	1351 (cont)	
LM End	18.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.68)]. FS Date: 4/23/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39600\_62498.jpg



Headwall, pipe and flapgate visible on WS toe.

LM Start	<b>18.70</b>	Rating **	M	Issue No.	<b>1351 (cont)</b>
LM End	<b>18.70</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39600\_62500.jpg



Headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.15	Rating **	M	Issue No.	1352
LM End	19.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.11)].					
FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39601\_62504.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	19.15	Rating **	M	Issue No.	1352 (cont)
LM End	19.15	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39601\_62506.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.15	Rating **	M	Issue No.	1352 (cont)
LM End	19.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.11)]. FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39601\_62505.jpg



Headwall and pipe visible on LS toe.

LM Start	19.17	Rating **	A/W	Issue No.	1353
LM End	19.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.115463 °	37.115463 °
				-120.565086 °	-120.565086 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34751 DS_ID:19776 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.15)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34751\_62509.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.17	Rating **	A/W	Issue No.	1353 (cont)	
LM End	19.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.115463 °	37.115463 °	
				-120.565086 °	-120.565086 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34751 DS_ID:19776 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.15)]. FS Date: 4/23/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34751\_62511.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>19.17</b>	Rating **	A/W	Issue No.	<b>1353 (cont)</b>
LM End	<b>19.17</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34751\_62510.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.48	Rating **	M	Issue No.	1354	
LM End	19.48	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.46)].						
FS Date: 4/23/2014						

LM Start	<b>19.48</b>	Rating **	M	Issue No.	<b>1354 (cont)</b>
LM End	<b>19.48</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39602\_62514.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39602\_62516.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.48	Rating **	M	Issue No.	1354 (cont)	
LM End	19.48	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.46)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39602\_62515.jpg



Headwall and pipe visible on LS toe.

LM Start	19.51	Rating **	M	Issue No.	1355
LM End	19.51	Issue Type +	En	Location *	
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: Steel natural gas pipeline of an unknown size through the levee, at an unknown depth. Corrugated metal pipe (CMP) riser and gas line marker off the landside (LS) toe.					
FS Date: 4/22/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_39345\_71477.jpg



Gasline marker off LS 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	<b>19.51</b>	Rating **	M	Issue No.	<b>1355 (cont)</b>
LM End	<b>19.51</b>	Issue Type +	En	Location *	
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: Steel natural gas pipeline of an unknown size through the levee, at an unknown depth. Corrugated metal pipe (CMP) riser and gas line marker off the landside (LS) toe. FS Date: 4/22/2014					

Photo 2 of 2 : UCIP\_SP\_2018\_39345\_71476.jpg



Gasline marker off LS of opposite bank.

LM Start	<b>19.52</b>	Rating **	M	Issue No.	<b>1356</b>
LM End	<b>19.52</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		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 corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.50)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39603\_62519.jpg



Headwall, pipe, and flapgate visible 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.52	Rating **	M	Issue No.	1356 (cont)	
LM End	19.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.50)]. FS Date: 4/23/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39603\_62521.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>19.52</b>	Rating **	M	Issue No.	<b>1356 (cont)</b>
LM End	<b>19.52</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39603\_62520.jpg



Headwall and pipe visible on LS toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.94	Rating **	A/W	Issue No.	1358 (cont)	
LM End	19.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.108426 °	37.108426 °	
				-120.554990 °	-120.554990 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34755 DS_ID:19780 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.92)]. FS Date: 4/23/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34755\_62530.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>19.94</b>	Rating **	A/W	Issue No.	<b>1358 (cont)</b>
LM End	<b>19.94</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34755\_62528.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.10	Rating **	A/W	Issue No.	1359	
LM End	20.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.107091 °	37.107091 °	
				-120.553503 °	-120.553503 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34757 DS_ID:19781 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.05)]. FS Date: 4/23/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34757\_62533.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>20.10</b>	Rating **	A/W	Issue No.	<b>1359 (cont)</b>
LM End	<b>20.10</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34757\_62532.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.10	Rating **	A/W	Issue No.	1359 (cont)	
LM End	20.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.107091 °	37.107091 °	
				-120.553503 °	-120.553503 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34757						
DS_ID:19781						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.05)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34757\_62534.jpg



Headwall and pipe visible on LS toe.

LM Start	20.19	Rating **	M	Issue No.	1360
LM End	20.19	Issue Type +	En	Location *	
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\_SP\_2018\_34759\_62537.jpg



Well head visible off LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.24	Rating **	A/W	Issue No.	1361	
LM End	20.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.105489 °	37.105489 °	
				-120.551886 °	-120.551886 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34760						
DS_ID:19783						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 10.6 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 20.18)].						
FS Date: 4/23/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34760\_62539.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>20.24</b>	Rating **	A/W	Issue No.	<b>1361 (cont)</b>
LM End	<b>20.24</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34760\_62541.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.24	Rating **	A/W	Issue No.	1361 (cont)	
LM End	20.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.105489 °	37.105489 °	
				-120.551886 °	-120.551886 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34760						
DS_ID:19783						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 10.6 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 20.18)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34760\_62540.jpg



Headwall and pipe visible on LS toe.

LM Start	20.65	Rating **	M	Issue No.	1362
LM End	20.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.59)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39605\_62544.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.65	Rating **	M	Issue No.	1362 (cont)
LM End	20.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.59)]. FS Date: 4/23/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39605\_62543.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>20.65</b>	Rating **	M	Issue No.	<b>1362 (cont)</b>
LM End	<b>20.65</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39605\_62545.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.13	Rating **	M	Issue No.	1363
LM End	21.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.08)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39606\_62549.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>21.13</b>	Rating **	M	Issue No.	<b>1363 (cont)</b>
LM End	<b>21.13</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39606\_62551.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.13	Rating **	M	Issue No.	1363 (cont)	
LM End	21.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.08)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39606\_62550.jpg



Headwall and pipe visible on LS toe.

LM Start	21.45	Rating **	M	Issue No.	120
LM End	21.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.092064 °	37.092064 °
				-120.537750 °	-120.537750 °
DWR ID	DWR_NA0010_05_f_2017_120				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair holes dug at the landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_120\_20180307\_00025.jpg



Looking southeast at the landside toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.48	Rating **	M	Issue No.	1364
LM End	21.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.42)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39614\_62555.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>21.48</b>	Rating **	M	Issue No.	<b>1364 (cont)</b>
LM End	<b>21.48</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39614\_62556.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.48	Rating **	M	Issue No.	1364 (cont)	
LM End	21.48	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.42)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39614\_62554.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.91	Rating **	M	Issue No.	1365
LM End	21.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.81)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39883\_62559.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>21.91</b>	Rating **	M	Issue No.	<b>1365 (cont)</b>
LM End	<b>21.91</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39883\_62558.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.91	Rating **	M	Issue No.	1365 (cont)	
LM End	21.91	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.81)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39883\_62560.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.95	Rating **	M	Issue No.	1366
LM End	21.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.85)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39610\_62586.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>21.95</b>	Rating **	M	Issue No.	<b>1366 (cont)</b>
LM End	<b>21.95</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39610\_62588.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.95	Rating **	M	Issue No.	1366 (cont)	
LM End	21.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.85)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39610\_62587.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.28	Rating **	M	Issue No.	1367
LM End	22.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end.					
Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.19)].					
FS Date: 4/23/2014					

LM Start	<b>22.28</b>	Rating **	M	Issue No.	<b>1367 (cont)</b>
LM End	<b>22.28</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39611\_62591.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39611\_62593.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.28	Rating **	M	Issue No.	1367 (cont)	
LM End	22.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.19)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39611\_62592.jpg



Headwall and pipe visible on LS toe.

LM Start	22.35	Rating **	M	Issue No.	121
LM End	22.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.082696 °	37.082696 °
				-120.527620 °	-120.527620 °
DWR ID	DWR_NA0010_05_f_2017_121				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Waterside slope damaged by animal traffic.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_121\_20180307\_00026.jpg



Looking southeast at the waterside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.55	Rating **	M	Issue No.	1368	
LM End	22.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)]. FS Date: 4/23/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39613\_62596.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>22.55</b>	Rating **	M	Issue No.	<b>1368 (cont)</b>
LM End	<b>22.55</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39613\_62598.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.55	Rating **	M	Issue No.	1368 (cont)	
LM End	22.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end.						
Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39613\_62597.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.89	Rating **	M	Issue No.	1369	
LM End	22.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.94)]. FS Date: 4/23/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39616\_62601.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>22.89</b>	Rating **	M	Issue No.	<b>1369 (cont)</b>
LM End	<b>22.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39616\_62600.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.89	Rating **	M	Issue No.	1369 (cont)	
LM End	22.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end.						
Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.94)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39616\_62602.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.03	Rating **	M	Issue No.	1370	
LM End	23.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)]. FS Date: 4/23/2014						

LM Start	<b>23.03</b>	Rating **	M	Issue No.	<b>1370 (cont)</b>
LM End	<b>23.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39617\_62606.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39617\_62608.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.03	Rating **	M	Issue No.	1370 (cont)	
LM End	23.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39617\_62607.jpg



Headwall and pipe visible on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.17	Rating **	M	Issue No.	1371
LM End	23.17	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39618\_62611.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>23.17</b>	Rating **	M	Issue No.	<b>1371 (cont)</b>
LM End	<b>23.17</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39618\_62610.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.17	Rating **	M	Issue No.	1371 (cont)
LM End	23.17	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002].					
FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39618\_62615.jpg



Debris blocking closure of outlet on WS toe.

LM Start	23.25	Rating **	A/W	Issue No.	1372
LM End	23.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.072989 °	37.072989 °
				-120.516687 °	-120.516687 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32763 DS_ID:19794 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.15)]. FS Date: 3/25/2014 9:04:45 AM					

Photo 1 of 3 : UCIP\_SP\_2018\_32763\_59262.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.25	Rating **	A/W	Issue No.	1372 (cont)	
LM End	23.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.072989 °	37.072989 °	
				-120.516687 °	-120.516687 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32763 DS_ID:19794 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.15)]. FS Date: 3/25/2014 9:04:45 AM						

LM Start	<b>23.25</b>	Rating **	A/W	Issue No.	<b>1372 (cont)</b>
LM End	<b>23.25</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32763\_59263.jpg



Flapgate and concrete headwall on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_32763\_59261.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.72	Rating **	M	Issue No.	1373
LM End	23.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.62)]. FS Date: 3/25/2014					

LM Start	<b>23.72</b>	Rating **	M	Issue No.	<b>1373 (cont)</b>
LM End	<b>23.72</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39621\_59272.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39621\_59270.jpg



Flapgate on Concrete headwall on WS toe.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.72	Rating **	M	Issue No.	1373 (cont)	
LM End	23.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.62)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39621\_59271.jpg



Concrete headwall on LS toe.

LM Start	23.93	Rating **	M	Issue No.	122
LM End	24.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.065492 °	37.056303 °
				-120.508587 °	-120.498637 °
DWR ID	DWR_NA0010_05_f_2017_122				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_122\_20180307\_00027.jpg



Looking northeast at a representative pothole on the crown.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.02	Rating **	M	Issue No.	1374
LM End	24.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.85)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39620\_59282.jpg



Concrete headwall on WS toe.

LM Start	<b>24.02</b>	Rating **	M	Issue No.	<b>1374 (cont)</b>
LM End	<b>24.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39620\_59280.jpg



Flapgate at Concrete headwall on WS toe.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.28	Rating **	M	Issue No.	1375 (cont)	
LM End	24.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.18)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_46850\_59285.jpg



Flapgate at concrete headwall at WS toe.

LM Start	<b>24.28</b>	Rating **	M	Issue No.	<b>1375 (cont)</b>
LM End	<b>24.28</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_46850\_59286.jpg



Concrete headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.56	Rating **	M	Issue No.	1376
LM End	24.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.46)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39623\_59292.jpg



Concrete headwall on WS toe.

LM Start	<b>24.56</b>	Rating **	M	Issue No.	<b>1376 (cont)</b>
LM End	<b>24.56</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39623\_59290.jpg



Flapgate at Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.93	Rating **	A/W	Issue No.	1377 (cont)	
LM End	24.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.054481 °		37.054481 °
				-120.496798 °		-120.496798 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32786 DS_ID:19800 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.82)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_32786\_59295.jpg



Flapgate on concrete headwall on WS toe.

LM Start	<b>24.93</b>	Rating **	A/W	Issue No.	<b>1377 (cont)</b>
LM End	<b>24.93</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32786\_59296.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.96	Rating **	A/W	Issue No.	1378
LM End	24.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.054344 °	37.054344 °
				-120.496214 °	-120.496214 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39624 DS_ID:19801 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.87)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39624\_59302.jpg



Flapgate and channel off WS toe.

LM Start	<b>24.96</b>	Rating **	A/W	Issue No.	<b>1378 (cont)</b>
LM End	<b>24.96</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39624\_59301.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.96	Rating **	A/W	Issue No.	1378 (cont)	
LM End	24.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.054344 °		37.054344 °
				-120.496214 °		-120.496214 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39624 DS_ID:19801 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.87)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39624\_59303.jpg



Flapgate on headwall at WS toe.

LM Start	24.98	Rating **	M	Issue No.	123
LM End	25.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.054150 °	37.051252 °
				-120.495964 °	-120.492368 °
DWR ID	DWR_NA0010_05_f_2017_123				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_123\_20180307\_00028.jpg



Looking southwest at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.98	Rating **	M	Issue No.	1379	
LM End	24.98	Issue Type +	En	Location *		
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 coated steel irrigation discharge pipe through the levee, 2 feet below the crown. Slant pump at the channel on the waterside (WS) toe. Siphon breaker on the WS shoulder. Gate valve on the landside (LS) toe. A preexisting ditch runs from the WS toe to the channel. Riprap placed around the intake. 2-inch polyvinyl chloride (PVC) electrical conduit at the same location. (Plans to install a pump with a discharge pipe through the levee authorized under Permit No. 12873, 1980 - Bowles Farming Company). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 3/25/2014						

LM Start	<b>24.98</b>	Rating **	M	Issue No.	<b>1379 (cont)</b>
LM End	<b>24.98</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_41716\_59306.jpg



Slant pump at channel on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.98	Rating **	M	Issue No.	1379 (cont)	
LM End	24.98	Issue Type +	En	Location *		
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 coated steel irrigation discharge pipe through the levee, 2 feet below the crown. Slant pump at the channel on the waterside (WS) toe. Siphon breaker on the WS shoulder. Gate valve on the landside (LS) toe. A preexisting ditch runs from the WS toe to the channel. Riprap placed around the intake. 2-inch polyvinyl chloride (PVC) electrical conduit at the same location. (Plans to install a pump with a discharge pipe through the levee authorized under Permit No. 12873, 1980 - Bowles Farming Company). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_41716\_59304.jpg



Power pole, meter, and electrical panel off LS toe.

LM Start	25.24	Rating **	M	Issue No.	1380
LM End	25.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.13)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32789\_59311.jpg



Concrete headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.24	Rating **	M	Issue No.	1380 (cont)	
LM End	25.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.13)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_32789\_59312.jpg



Concrete headwall and flapgate on WS toe.

LM Start	<b>25.24</b>	Rating **	M	Issue No.	<b>1380 (cont)</b>
LM End	<b>25.24</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32789\_59310.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.28	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			37.051076 °	37.047042 °
				-120.492153 °	-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.	1381	
LM End	25.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.51)]. FS Date: 3/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39625\_59316.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.61	Rating **	M	Issue No.	1381 (cont)	
LM End	25.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.51)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39625\_59317.jpg



Flapgate on concrete headwall at WS toe.

LM Start	<b>25.61</b>	Rating **	M	Issue No.	<b>1381 (cont)</b>
LM End	<b>25.61</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39625\_59315.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.61	Rating **	U	Issue No.	124
LM End	25.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.047416 °	37.047416 °
				-120.488411 °	-120.488411 °
DWR ID	DWR_NA0010_05_f_2017_124				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_124\_20180307\_00029.jpg



Looking east at the waterside slope.

LM Start	25.63	Rating **	M	Issue No.	1382
LM End	25.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.53)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39626\_59321.jpg



Flapgate on headwall at 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.63	Rating **	M	Issue No.	1382 (cont)	
LM End	25.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.53)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39626\_59320.jpg



Concrete headwall on LS toe.

LM Start	<b>25.63</b>	Rating **	M	Issue No.	<b>1382 (cont)</b>
LM End	<b>25.63</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39626\_59319.jpg



Inside pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.20	Rating **	M	Issue No.	1383	
LM End	26.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.11)]. FS Date: 3/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39627\_59341.jpg



Concrete headwall on WS toe.

LM Start	<b>26.20</b>	Rating **	M	Issue No.	<b>1383 (cont)</b>
LM End	<b>26.20</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39627\_59340.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.20	Rating **	M	Issue No.	1383 (cont)
LM End	26.20	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.11)]. FS Date: 3/25/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39627\_59342.jpg



Concrete headwall on LS toe.

LM Start	26.39	Rating **	A/W	Issue No.	1384
LM End	26.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.037772 °	37.037772 °
				-120.481028 °	-120.481028 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32804 DS_ID:19807 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.29)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32804\_59347.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.39	Rating **	A/W	Issue No.	1384 (cont)
LM End	26.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.037772 °	37.037772 °
				-120.481028 °	-120.481028 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32804 DS_ID:19807 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.29)]. FS Date: 3/25/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_32804\_59346.jpg



Concrete headwall on WS toe.

LM Start	<b>26.39</b>	Rating **	A/W	Issue No.	<b>1384 (cont)</b>
LM End	<b>26.39</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32804\_59345.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.95	Rating **	M	Issue No.	119
LM End	26.95	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.032667 °	37.032667 °
				-120.473943 °	-120.473943 °
DWR ID	DWR_NA0010_05_s_2018_119				
Comment Code					
PI : Pipe					
Inspector Comment					
Temporary Pipe crossing levee crown should be removed.					

No Photos

LM Start	26.95	Rating **	M	Issue No.	1385
LM End	26.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.85)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39628\_59350.jpg



Concrete headwall on LS 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.95	Rating **	M	Issue No.	1385 (cont)	
LM End	26.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.85)]. FS Date: 3/25/2014						

LM Start	<b>26.95</b>	Rating **	M	Issue No.	<b>1385 (cont)</b>
LM End	<b>26.95</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39628\_59349.jpg



Concrete headwall on LS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39628\_59348.jpg



Silt buildup in pipe at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.97	Rating **	M	Issue No.	1386
LM End	26.97	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.87)]. FS Date: 3/25/2014					

LM Start	<b>26.97</b>	Rating **	M	Issue No.	<b>1386 (cont)</b>
LM End	<b>26.97</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_32806\_59353.jpg



Concrete headwall at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_32806\_59355.jpg



Flapgate and Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.97	Rating **	M	Issue No.	1386 (cont)	
LM End	26.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.87)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32806\_59354.jpg



Concrete headwall at LS toe.

LM Start	27.01	Rating **	M	Issue No.	125
LM End	27.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.032675 °	37.032675 °
				-120.472841 °	-120.472841 °
DWR ID	DWR_NA0010_05_f_2017_125				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_125\_20180307\_00030.jpg



Looking north at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	27.31	Rating **	A/W	Issue No.	1387
LM End	27.31	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.032668 °	37.032668 °
				-120.467299 °	-120.467299 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32807 DS_ID:19749 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 27.22)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32807\_59358.jpg



Concrete headwall on WS toe.

LM Start	<b>27.31</b>	Rating **	A/W	Issue No.	<b>1387 (cont)</b>
LM End	<b>27.31</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32807\_59359.jpg



Flapgate at Concrete headwall on WS toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	28.27	Rating **	M	Issue No.	1388 (cont)	
LM End	28.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.17)]. FS Date: 3/25/2014						

LM Start	<b>28.27</b>	Rating **	M	Issue No.	<b>1388 (cont)</b>
LM End	<b>28.27</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32823\_59383.jpg



Flapgate on Concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_32823\_59381.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	28.79	Rating **	A/W	Issue No.	1389
LM End	28.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.031640 °	37.031640 °
				-120.441389 °	-120.441389 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32832 DS_ID:19751 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.69)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32832\_59420.jpg



Concrete headwall on WS toe.

LM Start	<b>28.79</b>	Rating **	A/W	Issue No.	<b>1389 (cont)</b>
LM End	<b>28.79</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32832\_59419.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	28.79	Rating **	A/W	Issue No.	1389 (cont)	
LM End	28.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.031640 °		37.031640 °
				-120.441389 °		-120.441389 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32832 DS_ID:19751 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.69)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32832\_59418.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.05	Rating **	M	Issue No.	1390
LM End	29.05	Issue Type +	En	Location *	
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 reinforced concrete irrigation siphon pipe through the levee, 12.1 feet below the crown. Concrete U-shaped headwall on inlet structure on the landside (LS) end. Slide gate mounted on concrete headwall on the LS. 36-inch corrugated metal pipe (CMP) riser with a slide gate on the LS, 8 feet upstream from the siphon. 24-inch pipe from this unit enters the siphon behind the inlet structure. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.95)]. FS Date: 7/20/2016					

LM Start	<b>29.05</b>	Rating **	M	Issue No.	<b>1390 (cont)</b>
LM End	<b>29.05</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_50055\_59410.jpg



Slide gate mounted to concrete headwall on LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_50055\_59409.jpg



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

* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.05	Rating **	M	Issue No.	1390 (cont)	
LM End	29.05	Issue Type +	En	Location *		
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 reinforced concrete irrigation siphon pipe through the levee, 12.1 feet below the crown. Concrete U-shaped headwall on inlet structure on the landside (LS) end. Slide gate mounted on concrete headwall on the LS. 36-inch corrugated metal pipe (CMP) riser with a slide gate on the LS, 8 feet upstream from the siphon. 24-inch pipe from this unit enters the siphon behind the inlet structure. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.95)]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50055\_59408.jpg



24-inch PVC pipe sleeved through 48-inch concrete pipe. Rails on Slide gate rusted beyond use.

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

LM Start	<b>29.58</b>	Rating **	M	Issue No.	<b>1391 (cont)</b>
LM End	<b>29.58</b>	Issue Type +	Ma	Location *	



Photo 2 of 3 : UCIP\_SP\_2018\_39884\_59413.jpg



Flapgate on Concrete headwall at WS toe.

* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.58	Rating **	M	Issue No.	1391 (cont)	
LM End	29.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.49)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39884\_59415.jpg



Concrete headwall on LS toe.

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.					

Photo 1 of 2 : SP\_2018\_NA0010\_123\_171\_20180307\_00035.jpg



Looking south at animal erosion on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.68	Rating **	M	Issue No.	171 (cont)
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.					

Photo 2 of 2 : SP\_2018\_NA0010\_123\_171\_20180307\_00036.jpg



Looking north at animal erosion on waterward slope.

LM Start	29.82	Rating **	M	Issue No.	1392
LM End	29.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.72)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39631\_59424.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.82	Rating **	M	Issue No.	1392 (cont)	
LM End	29.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.72)]. FS Date: 3/27/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39631\_59426.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>29.82</b>	Rating **	M	Issue No.	<b>1392 (cont)</b>
LM End	<b>29.82</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39631\_59425.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.88	Rating **	M	Issue No.	129
LM End	31.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.017748 °	37.002885 °
				-120.432013 °	-120.417550 °
DWR ID	DWR_NA0010_05_f_2017_129				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	29.88	Rating **	A/W	Issue No.	128
LM End	31.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.017747 °	37.002885 °
				-120.432013 °	-120.417550 °
DWR ID	DWR_NA0010_05_f_2017_128				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_128\_20180307\_00033.jpg



Looking southeast at the crown.

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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	30.14	Rating **	M	Issue No.	1393
LM End	30.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.04)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39632\_59430.jpg



Concrete headwall on WS toe.

LM Start	<b>30.14</b>	Rating **	M	Issue No.	<b>1393 (cont)</b>
LM End	<b>30.14</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39632\_59431.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	30.14	Rating **	M	Issue No.	1393 (cont)	
LM End	30.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.1 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.04)].						
FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39632\_59429.jpg



Concrete headwall on LS toe.

LM Start	30.33	Rating **	M	Issue No.	133
LM End	30.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.012070 °	37.012070 °
				-120.428101 °	-120.428101 °
DWR ID	DWR_NA0010_05_s_2018_133				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Minor depression on levee crown. Possible sink hole.					

Photo 1 of 2 : SP\_2018\_NA0010\_123\_133\_20180411\_00312.jpg



Looking east at depression on levee crown. (Spring 2018)

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

\*\* Rating  
 A : Acceptable  
 M : Minimally Acceptable  
 U : Unacceptable  
 N : Not Inspected/Rated  
 C : Corrected  
 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 - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.06	Rating **	M	Issue No.	1394	
LM End	31.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.96)].						
FS Date: 3/27/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39633\_59435.jpg



Concrete headwall on WS toe.

LM Start	<b>31.06</b>	Rating **	M	Issue No.	<b>1394 (cont)</b>
LM End	<b>31.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39633\_59436.jpg



Flapgate on Concrete headwall at WS toe.

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

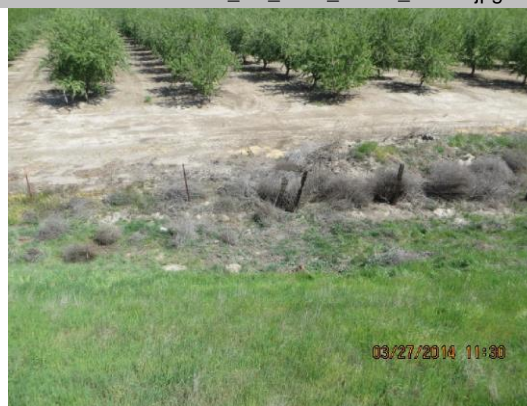
**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.06	Rating **	M	Issue No.	1394 (cont)	
LM End	31.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.96)].						
FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39633\_59434.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.30	Rating **	M	Issue No.	1395
LM End	31.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.19)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39643\_59439.jpg



Concrete headwall on WS toe.

LM Start	<b>31.30</b>	Rating **	M	Issue No.	<b>1395 (cont)</b>
LM End	<b>31.30</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39643\_59440.jpg



Flapgate at concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.30	Rating **	M	Issue No.	1395 (cont)	
LM End	31.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.4 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.19)].						
FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39643\_59438.jpg



Concrete headwall on LS toe.

LM Start	31.74	Rating **	A/W	Issue No.	1396
LM End	31.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.997001 °	36.997001 °
				-120.410991 °	-120.410991 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39644					
DS_ID:19699					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 48-inch by 36-inch reinforced concrete box gravity drainage culvert through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.64)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39644\_59444.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.74	Rating **	A/W	Issue No.	1396 (cont)	
LM End	31.74	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			36.997001 °		36.997001 °
				-120.410991 °		-120.410991 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39644						
DS_ID:19699						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 48-inch by 36-inch reinforced concrete box gravity drainage culvert through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.64)].						
FS Date: 3/27/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39644\_59442.jpg



Concrete headwall on WS toe.

LM Start	<b>31.74</b>	Rating **	A/W	Issue No.	<b>1396 (cont)</b>
LM End	<b>31.74</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39644\_59443.jpg



Concrete headwall on LS toe. Note tumbleweeds blocking inlet.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.80	Rating **	M	Issue No.	1397 (cont)	
LM End	31.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end with flashboard attachment. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.71)]. FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39645\_59685.jpg



Concrete headwall on LS toe.

LM Start	32.32	Rating **	M	Issue No.	1398
LM End	32.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end with flashboard attachment. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 32.22)]. FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39646\_59690.jpg



Concrete headwall at inlet on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	32.32	Rating **	M	Issue No.	1398 (cont)	
LM End	32.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end with flashboard attachment. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 32.22)]. FS Date: 4/1/2014						

LM Start	<b>32.32</b>	Rating **	M	Issue No.	<b>1398 (cont)</b>
LM End	<b>32.32</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39646\_59688.jpg



Flapgate on Concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39646\_59689.jpg



Concrete headwall at outlet on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	<b>33.11</b>	Rating **	M	Issue No.	<b>1399</b>
LM End	<b>33.11</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.01)].  
FS Date: 4/1/2014

LM Start	<b>33.11</b>	Rating **	M	Issue No.	<b>1399 (cont)</b>
LM End	<b>33.11</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39647\_59697.jpg



Concrete headwall at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39647\_59699.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	33.11	Rating **	M	Issue No.	1399 (cont)	
LM End	33.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.01)]. FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39647\_59698.jpg



Concrete headwall at inlet on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	33.81	Rating **	M	Issue No.	1400
LM End	33.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.72)]. FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39648\_59701.jpg



Concrete headwall at WS toe.

LM Start	<b>33.81</b>	Rating **	M	Issue No.	<b>1400 (cont)</b>
LM End	<b>33.81</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39648\_59700.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	33.81	Rating **	M	Issue No.	1400 (cont)
LM End	33.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.72)].					
FS Date: 4/1/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39648\_59702.jpg



Concrete headwall at LS toe.

LM Start	33.82	Rating **	M	Issue No.	130
LM End	33.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.976849 °	36.976849 °
				-120.382393 °	-120.382393 °
DWR ID	DWR_NA0010_05_f_2017_130				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_130\_20180307\_00034.jpg



Looking east at the landside shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

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			36.978523 °	36.978523 °
				-120.368520 °	-120.368520 °
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 : SP\_2018\_NA0010\_123\_11\_20180307\_00010.jpg



Looking west at ramp on waterward slope.

LM Start	<b>34.61</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>34.61</b>	Issue Type +	En	Location *	WS

Photo 2 of 4 : SP\_2018\_NA0010\_123\_11\_20180307\_00011.jpg



Looking west at cut on levee crown.

LM Start	<b>34.61</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>34.61</b>	Issue Type +	En	Location *	WS

Photo 3 of 4 : SP\_2018\_NA0010\_123\_11\_20180307\_00012.jpg



Looking at cut on levee crown.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	34.61	Rating **	M	Issue No.	11 (cont)	
LM End	34.61	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			36.978523 °	36.978523 °	
				-120.368520 °	-120.368520 °	
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 4 of 4 : SP\_2018\_NA0010\_123\_11\_20180307\_00013.jpg



Looking southwest at unauthorized ramp on waterward slope. (2015)

LM Start	34.61	Rating **	M	Issue No.	1401
LM End	34.61	Issue Type +	En	Location *	
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: [Chowchilla Canal Irrigation Structure] 36-inch by 36-inch reinforced concrete box gravity irrigation culvert through the levee, 9.7 feet below the crown. Slide gate in a 56-inch by 91-inch concrete riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Landside channel cobble revetted for 8 feet. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 34.51)]. FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39649\_59706.jpg



Slide gate in concrete riser on WS shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	34.61	Rating **	M	Issue No.	1401 (cont)	
LM End	34.61	Issue Type +	En	Location *		
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: [Chowchilla Canal Irrigation Structure] 36-inch by 36-inch reinforced concrete box gravity irrigation culvert through the levee, 9.7 feet below the crown. Slide gate in a 56-inch by 91-inch concrete riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Landside channel cobble revetted for 8 feet. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 34.51)]. FS Date: 4/1/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39649\_59704.jpg



Concrete headwall at LS toe.

LM Start	<b>34.61</b>	Rating **	M	Issue No.	<b>1401 (cont)</b>
LM End	<b>34.61</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39649\_59705.jpg



Concrete headwall at LS toe.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/3/2018 - 4/17/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	79
LM End	36.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.275814 °	36.974092 °
				-120.825863 °	-120.363201 °
DWR ID	DWR_NA0010_06_s _ 2018_79				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	87
LM End	36.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.275815 °	36.974091 °
				-120.825863 °	-120.363201 °
DWR ID	DWR_NA0010_06_s _ 2018_87				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	1213	
LM End	0.66	Issue Type +	En	Location *		
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 corrugated metal irrigation discharge pipe through the levee, 7.2 feet below the crown. Pump on concrete structure in the channel. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.74)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39463\_66341.jpg



View of waterward side.

LM Start	<b>0.66</b>	Rating **	M	Issue No.	<b>1213 (cont)</b>
LM End	<b>0.66</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39463\_66343.jpg



View of slope on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	1213 (cont)	
LM End	0.66	Issue Type +	En	Location *		
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 corrugated metal irrigation discharge pipe through the levee, 7.2 feet below the crown. Pump on concrete structure in the channel. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.74)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39463\_66342.jpg



Pump station visible on waterward side.

LM Start	0.78	Rating **	M	Issue No.	1214
LM End	0.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.86)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36565\_66346.jpg



Overview of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	1214 (cont)	
LM End	0.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.86)]. FS Date: 4/18/2014						

LM Start	<b>0.78</b>	Rating **	M	Issue No.	<b>1214 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36565\_66345.jpg



Concrete structure located on waterward toe.

Photo 3 of 3 : UCIP\_SP\_2018\_36565\_66344.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	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.	1215
LM End	1.87	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.95)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36566\_66348.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	1.87	Rating **	M	Issue No.	1215 (cont)	
LM End	1.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.95)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36566\_66350.jpg



View of waterward side.

LM Start	<b>1.87</b>	Rating **	M	Issue No.	<b>1215 (cont)</b>
LM End	<b>1.87</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36566\_66349.jpg



Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.53	Rating **	M	Issue No.	1216
LM End	2.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.61)]. FS Date: 4/18/2014					

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>1216 (cont)</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39464\_66354.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39464\_66357.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.53	Rating **	M	Issue No.	1216 (cont)
LM End	2.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.61)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39464\_66356.jpg



CMP riser, concrete headwall, and pipe visible on waterward side.

LM Start	2.53	Rating **	M	Issue No.	76
LM End	2.53	Issue Type +	Ma	Location *	LS
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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	1217	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.65)]. FS Date: 4/18/2014						

LM Start	<b>2.57</b>	Rating **	M	Issue No.	<b>1217 (cont)</b>
LM End	<b>2.57</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36568\_66362.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2018\_36568\_66360.jpg



View of waterward side.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	1217 (cont)
LM End	2.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.65)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_36568\_66359.jpg



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

LM Start	2.77	Rating **	M	Issue No.	1218	
LM End	2.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.85)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36569\_66369.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.77	Rating **	M	Issue No.	1218 (cont)	
LM End	2.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.85)]. FS Date: 4/18/2014						

LM Start	<b>2.77</b>	Rating **	M	Issue No.	<b>1218 (cont)</b>
LM End	<b>2.77</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36569\_66368.jpg



Overview of levee crown at crossing.

Photo 3 of 3 : UCIP\_SP\_2018\_36569\_66372.jpg



View of landward side.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.01	Rating **	M	Issue No.	1219	
LM End	3.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)].						
FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36583\_66381.jpg



View of waterward side.

LM Start	<b>3.01</b>	Rating **	M	Issue No.	<b>1219 (cont)</b>
LM End	<b>3.01</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36583\_66380.jpg



Flap gate and concrete headwall visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.01	Rating **	M	Issue No.	1219 (cont)
LM End	3.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_36583\_66383.jpg



View of landward side.

LM Start	3.21	Rating **	M	Issue No.	1220	
LM End	3.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.29)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36584\_66384.jpg



Overview of levee crown and landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.21	Rating **	M	Issue No.	1220 (cont)	
LM End	3.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.29)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36584\_66386.jpg



View of waterward side.

LM Start	<b>3.21</b>	Rating **	M	Issue No.	<b>1220 (cont)</b>
LM End	<b>3.21</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36584\_66385.jpg



Crossing goes through the levee at an angle. Flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.38	Rating **	M	Issue No.	1221
LM End	3.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. Bench mark (BM) stamped 9770-152 on top of the WS headwall. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36585\_66389.jpg



Overview of levee crown at crossing.

LM Start	<b>3.38</b>	Rating **	M	Issue No.	<b>1221 (cont)</b>
LM End	<b>3.38</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36585\_66390.jpg



Flap gate and concrete headwall visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.38	Rating **	M	Issue No.	1221 (cont)	
LM End	3.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. Bench mark (BM) stamped 9770-152 on top of the WS headwall. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)].						
FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36585\_66391.jpg



View of landward side. No signs of concrete headwall only siphon breaker 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.42	Rating **	M	Issue No.	1222
LM End	3.42	Issue Type +	En	Location *	
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 coated steel irrigation discharge pipe through the levee, 7.4 feet below the crown. Corrugated metal cutoff wall around the pipe in the center of the levee. Pump on the waterside (WS) with a timber platform on the berm for support. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe exposed on both slopes. (Plans to place a 20-inch irrigation pipe through the levee authorized under Permit No. 6965, 1971 - Scarborough, Robinson, and Associates). [Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 4/10/2014

LM Start	<b>3.42</b>	Rating **	M	Issue No.	<b>1222 (cont)</b>
LM End	<b>3.42</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39482\_71643.jpg



View of structure located on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39482\_71644.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.42	Rating **	M	Issue No.	1222 (cont)	
LM End	3.42	Issue Type +	En	Location *		
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 coated steel irrigation discharge pipe through the levee, 7.4 feet below the crown. Corrugated metal cutoff wall around the pipe in the center of the levee. Pump on the waterside (WS) with a timber platform on the berm for support. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe exposed on both slopes. (Plans to place a 20-inch irrigation pipe through the levee authorized under Permit No. 6965, 1971 - Scarborough, Robinson, and Associates). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/10/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39482\_71642.jpg



Metal box located on waterward shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.47	Rating **	M	Issue No.	1223
LM End	3.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. Pipe connects to a 30-inch steel drainage pipe on the WS. Drainage pipe extends to the pump on the WS on a support platform in the channel. (Extension drainage pipe and pump installed under Permit No. 12527, 1979 - Joseph Gallo).  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.54)].  
FS Date: 4/18/2014

LM Start	<b>3.47</b>	Rating **	M	Issue No.	<b>1223 (cont)</b>
LM End	<b>3.47</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39465\_66394.jpg



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

Photo 2 of 3 : UCIP\_SP\_2018\_39465\_66395.jpg



Inside view of cmp riser located on waterward slope.

* 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**

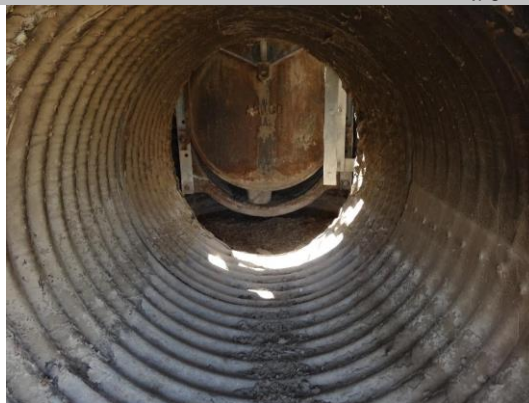
**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.47	Rating **	M	Issue No.	1223 (cont)	
LM End	3.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. Pipe connects to a 30-inch steel drainage pipe on the WS. Drainage pipe extends to the pump on the WS on a support platform in the channel. (Extension drainage pipe and pump installed under Permit No. 12527, 1979 - Joseph Gallo). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.54)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39465\_66397.jpg



Inside view of pipe from waterward side.

LM Start	3.49	Rating **	M	Issue No.	67
LM End	3.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.251602 °	37.251602 °
				-120.778118 °	-120.778118 °
DWR ID	DWR_NA0010_06_f_2017_67				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_67\_20180307\_00017.jpg



Looking east at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.69	Rating **	M	Issue No.	1224	
LM End	3.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.77)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39466\_66413.jpg



View of waterward side.

LM Start	<b>3.69</b>	Rating **	M	Issue No.	<b>1224 (cont)</b>
LM End	<b>3.69</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39466\_66412.jpg



View of landward side.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.69	Rating **	M	Issue No.	1224 (cont)
LM End	3.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.77)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39466\_66411.jpg



View of flap gate visible on waterward side.

LM Start	3.89	Rating **	M	Issue No.	1225
LM End	3.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.97)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39467\_66407.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.89	Rating **	M	Issue No.	1225 (cont)	
LM End	3.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.97)].						
FS Date: 4/18/2014						

LM Start	<b>3.89</b>	Rating **	M	Issue No.	<b>1225 (cont)</b>
LM End	<b>3.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39467\_66406.jpg



Slide gate inside CMP riser visible on waterward slope.

Photo 3 of 3 : UCIP\_SP\_2018\_39467\_66410.jpg



Inside view of CMP riser located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.09	Rating **	M	Issue No.	1226
LM End	4.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.17)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36606\_66418.jpg



View of waterward side.

LM Start	<b>4.09</b>	Rating **	M	Issue No.	<b>1226 (cont)</b>
LM End	<b>4.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36606\_66417.jpg



Overview of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.09	Rating **	M	Issue No.	1226 (cont)	
LM End	4.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.17)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36606\_66416.jpg



Concrete headwall visible on landward side.

LM Start	4.33	Rating **	M	Issue No.	1227
LM End	4.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.41)]. FS Date: 4/18/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_36607\_66422.jpg



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

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.33	Rating **	M	Issue No.	1227 (cont)	
LM End	4.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.41)]. FS Date: 4/18/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_36607\_66421.jpg



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

LM Start	4.62	Rating **	M	Issue No.	1228	
LM End	4.62	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.70)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39468\_66425.jpg



Overview of levee crown at crossing.

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

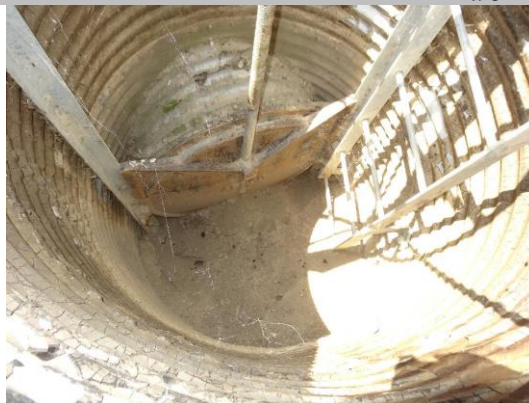
**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.62	Rating **	M	Issue No.	1228 (cont)	
LM End	4.62	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.70)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39468\_66426.jpg



Inside view of CMP riser located on waterward.

LM Start	<b>4.62</b>	Rating **	M	Issue No.	<b>1228 (cont)</b>
LM End	<b>4.62</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39468\_66424.jpg



Inside view of pipe from waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

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 landside slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_10\_20180307\_00012.jpg



Looking at rodent hole along fence line on landward slope.

LM Start	<b>4.66</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>4.66</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_124\_10\_20180307\_00013.jpg



Looking at typical rodent holes on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.67	Rating **	M	Issue No.	1229
LM End	4.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.75)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36609\_66433.jpg



View of waterward side.

LM Start	<b>4.67</b>	Rating **	M	Issue No.	<b>1229 (cont)</b>
LM End	<b>4.67</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36609\_66432.jpg



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

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.67	Rating **	M	Issue No.	1229 (cont)	
LM End	4.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.75)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36609\_66431.jpg



View of landward side.

LM Start	4.86	Rating **	M	Issue No.	1230
LM End	4.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.94)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36610\_66436.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.86	Rating **	M	Issue No.	1230 (cont)
LM End	4.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.94)]. FS Date: 4/18/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_36610\_66438.jpg



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

LM Start	<b>4.86</b>	Rating **	M	Issue No.	<b>1230 (cont)</b>
LM End	<b>4.86</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36610\_66437.jpg



Close up of flap gate located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.26	Rating **	M	Issue No.	1231
LM End	5.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.34)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39875\_61599.jpg



View of waterward side.

LM Start	<b>5.26</b>	Rating **	M	Issue No.	<b>1231 (cont)</b>
LM End	<b>5.26</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39875\_61598.jpg



Overview of levee crown at crossing.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.26	Rating **	M	Issue No.	1231 (cont)	
LM End	5.26	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.34)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39875\_61597.jpg



View of landward side.

LM Start	5.55	Rating **	M	Issue No.	1232
LM End	5.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.63)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36611\_66441.jpg



Concrete headwall and flap gate visible on waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.55	Rating **	M	Issue No.	1232 (cont)	
LM End	5.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.63)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36611\_66440.jpg



View of waterward side--dense vegetation covers slope.

LM Start	<b>5.55</b>	Rating **	M	Issue No.	<b>1232 (cont)</b>
LM End	<b>5.55</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36611\_66439.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.81	Rating **	U	Issue No.	66
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.238189 °	37.238189 °
				-120.741946 °	-120.741946 °
DWR ID	DWR_NA0010_06_f_2017_66				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_66\_20180307\_00016.jpg



Looking southwest at the landside 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 landside toe and slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_69\_20180307\_00019.jpg



Looking at power pole on landward slope.

LM Start	<b>5.93</b>	Rating **	U	Issue No.	<b>69 (cont)</b>
LM End	<b>6.25</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_124\_69\_20180307\_00020.jpg



Looking west at several PG&amp;E poles on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.98	Rating **	A/W	Issue No.	1233
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.236414 °	37.236414 °
				-120.739735 °	-120.739735 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51312 DS_ID:19865 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 7/19/2016 Site has been repaired on WS and LS (see photos below). (DWR UCIP - omagana)5/26/2016 Erosion is undermining the WS headwall of drainage structure (photos of WS headwall provided by DWR Inspector R. Willoughby). Potential pipe failure at the outlet just behind headwall, recommend completing internal wall integrity of pipe length through levee to determine extent of damage to pipe. (DWR UCIP - omagana)4/18/2014 Need to contact owner. Sediment buildup in pipe visible on landside--recommend clearing. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.06)]. FS Date: 7/19/2016					

LM Start	<b>5.98</b>	Rating **	A/W	Issue No.	<b>1233 (cont)</b>
LM End	<b>5.98</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_51312\_75493.jpg



View of WS--rock protection along drainage path.

Photo 2 of 3 : UCIP\_SP\_2018\_51312\_75488.jpg



WS drainage path protected by rip rap.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.98	Rating **	A/W	Issue No.	1233 (cont)
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.236414 °	37.236414 °
				-120.739735 °	-120.739735 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51312 DS_ID:19865 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 7/19/2016 Site has been repaired on WS and LS (see photos below). (DWR UCIP - omagana)5/26/2016 Erosion is undermining the WS headwall of drainage structure (photos of WS headwall provided by DWR Inspector R. Willoughby). Potential pipe failure at the outlet just behind headwall, recommend completing internal wall integrity of pipe length through levee to determine extent of damage to pipe. (DWR UCIP - omagana)4/18/2014 Need to contact owner. Sediment buildup in pipe visible on landside--recommend clearing. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.06)]. FS Date: 7/19/2016					

Photo 3 of 3 : UCIP\_SP\_2018\_51312\_75489.jpg



Inside view of pipe from WS.

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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

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

LM Start	6.44	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			37.233587 °	37.187645 °
				-120.732480 °	-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 and potholes on levee crown..					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_6\_20180307\_00010.jpg



Looking upstream at large pot hole on levee crown.

LM Start	<b>6.44</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>11.00</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2018\_NA0010\_124\_6\_20180307\_00011.jpg



Looking downstream at typical view of rutting and pot holes on 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	6.70	Rating **	A/W	Issue No.	1234
LM End	6.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.230508 °	37.230508 °
				-120.729634 °	-120.729634 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33984 DS_ID:19866 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.79)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33984\_61628.jpg



Slide gate inside CMP riser and pipe visible on waterward side.

LM Start	<b>6.70</b>	Rating **	A/W	Issue No.	<b>1234 (cont)</b>
LM End	<b>6.70</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33984\_61627.jpg



Concrete headwall visible on waterward side.

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

View of waterward side.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	6.89	Rating **	A/W	Issue No.	1235 (cont)	
LM End	6.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.228253 °	37.228253 °	
				-120.727865 °	-120.727865 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33985 DS_ID:19867 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.97)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33985\_61639.jpg



Concrete headwall and CMP riser visible on waterward side.

LM Start	<b>6.89</b>	Rating **	A/W	Issue No.	<b>1235 (cont)</b>
LM End	<b>6.89</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33985\_61638.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	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.	1236
LM End	7.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.29)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39471\_61650.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	7.21	Rating **	M	Issue No.	1236 (cont)	
LM End	7.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.29)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39471\_61649.jpg



Concrete headwall and flap gate visible on waterward side. Dead animal inside pipe.

LM Start	<b>7.21</b>	Rating **	M	Issue No.	<b>1236 (cont)</b>
LM End	<b>7.21</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39471\_61648.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	7.66	Rating **	M	Issue No.	1237
LM End	7.66	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Skewed crossing.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.74)].					
FS Date: 4/18/2014					

LM Start	<b>7.66</b>	Rating **	M	Issue No.	<b>1237 (cont)</b>
LM End	<b>7.66</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39472\_66462.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39472\_66461.jpg



Pipe crosses levee at an angle.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	7.66	Rating **	M	Issue No.	1237 (cont)	
LM End	7.66	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Skewed crossing.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.74)].						
FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39472\_66460.jpg



Concrete headwall and flap gate visible on waterward side.

LM Start	8.08	Rating **	M	Issue No.	65
LM End	8.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.217199 °	37.217199 °
				-120.713374 °	-120.713374 °
DWR ID	DWR_NA0010_06_f_2017_65				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_65\_20180307\_00015.jpg



Looking southwest at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	8.13	Rating **	M	Issue No.	1238
LM End	8.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.21)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39473\_61674.jpg



View of waterward side.

LM Start	<b>8.13</b>	Rating **	M	Issue No.	<b>1238 (cont)</b>
LM End	<b>8.13</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39473\_61673.jpg



Pipe crosses levee at an angle.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	8.13	Rating **	M	Issue No.	1238 (cont)	
LM End	8.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.21)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39473\_61672.jpg



Concrete headwall and flap gate visible on waterward side.

LM Start	8.43	Rating **	M	Issue No.	1239	
LM End	8.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.51)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39474\_61685.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	8.43	Rating **	M	Issue No.	1239 (cont)
LM End	8.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.51)]. FS Date: 4/18/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39474\_61684.jpg



View of landward side.

LM Start	<b>8.43</b>	Rating **	M	Issue No.	<b>1239 (cont)</b>
LM End	<b>8.43</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39474\_61683.jpg



Pipe crosses levee at an angle.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.52	Rating **	M	Issue No.	1240
LM End	9.52	Issue Type +	En	Location *	
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 Accidentally 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: Telephone cable of an unknown size or material under crown of roadway, at an unknown depth. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/18/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_42525\_72925.jpg



Service box located on waterward levee shoulder.

LM Start	<b>9.52</b>	Rating **	M	Issue No.	<b>1240 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_42525\_72924.jpg



Service box is for electrical conduit.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.56	Rating **	M	Issue No.	1241
LM End	9.56	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Slide gate in a concrete diversion box on the waterside (WS) shoulder. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_42524\_72922.jpg



Overview of levee crown looking upstream.

LM Start	<b>9.56</b>	Rating **	M	Issue No.	<b>1241 (cont)</b>
LM End	<b>9.56</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_42524\_72921.jpg



Concrete box located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.56	Rating **	M	Issue No.	1241 (cont)	
LM End	9.56	Issue Type +	En	Location *		
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 corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Slide gate in a concrete diversion box on the waterside (WS) shoulder. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_42524\_72920.jpg



Trash gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.59	Rating **	M	Issue No.	1242
LM End	9.59	Issue Type +	En	Location *	
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: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) Accidently missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 1 of 6: Approximately 14 reinforced concrete box gravity drainage culverts of an unknown size across the intersection of the Mariposa Bypass and the Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wing wall on each side of the structure. Rock revetment immediately downstream of the structure. Provide field description for crossing. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.64)]. FS Date: 4/21/2014					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.59	Rating **	M	Issue No.	1243	
LM End	9.59	Issue Type +	En	Location *		
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: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) Accidently missed--need photos. FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 2 of 6: Approximately 14 reinforced concrete box gravity drainage culverts of an unknown size across the intersection of the Mariposa Bypass and the Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wing wall on each side of the structure. Rock revetment immediately downstream of the structure. Provide field description for crossing. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.64)]. FS Date: 4/21/2014						

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.59	Rating **	M	Issue No.	1244
LM End	9.59	Issue Type +	En	Location *	
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: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) Accidentally missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 3 of 6: Approximately 14 reinforced concrete box gravity drainage culverts of an unknown size across the intersection of the Mariposa Bypass and the Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wing wall on each side of the structure. Rock revetment immediately downstream of the structure. Provide field description for crossing. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.64)]. FS Date: 4/21/2014					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.60	Rating **	M	Issue No.	1245
LM End	9.60	Issue Type +	En	Location *	
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: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) Accidentally missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 4 of 6: Approximately 14 reinforced concrete box gravity drainage culverts of an unknown size across the intersection of the Mariposa Bypass and the Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wing wall on each side of the structure. Rock revetment immediately downstream of the structure. Provide field description for crossing. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.64)]. FS Date: 4/21/2014					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.60	Rating **	M	Issue No.	1246	
LM End	9.60	Issue Type +	En	Location *		
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: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) Accidentally missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 5 of 6: Approximately 14 reinforced concrete box gravity drainage culverts of an unknown size across the intersection of the Mariposa Bypass and the Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wing wall on each side of the structure. Rock revetment immediately downstream of the structure. Provide field description for crossing. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.64)]. FS Date: 4/21/2014						

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	9.66	Rating **	M	Issue No.	1247	
LM End	9.66	Issue Type +	En	Location *		
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 corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Slide gate in a concrete diversion box on the waterside (WS) shoulder. [Additional Reference(s): DWR Levee Log, 2002].						
FS Date: 4/17/2014						

Photo 1 of 2 : UCIP\_SP\_2018\_39475\_61691.jpg



View of landward side.

LM Start	<b>9.66</b>	Rating **	M	Issue No.	<b>1247 (cont)</b>
LM End	<b>9.66</b>	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_39475\_61690.jpg



Pipe, slide gate, and concrete headwall visible on landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	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 waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_14\_20180307\_00014.jpg



Looking west at tree on waterward slope.

LM Start	11.56	Rating **	M	Issue No.	1248
LM End	11.56	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe					
through the levee, 16.6 feet below the crown. Flap gate on the					
waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002.					
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.64)].					
FS Date: 4/17/2014					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	11.74	Rating **	M	Issue No.	1249
LM End	11.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 17 feet below the crown. Slide gate in a pipe riser on					
the waterside (WS) slope. [Additional Reference(s): DWR Levee Log,					
2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.82)].					
FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39476\_66488.jpg



View of waterward side.

LM Start	<b>11.74</b>	Rating **	M	Issue No.	<b>1249 (cont)</b>
LM End	<b>11.74</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39476\_66487.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	11.74	Rating **	M	Issue No.	1249 (cont)	
LM End	11.74	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 17 feet below the crown. Slide gate in a pipe riser on						
the waterside (WS) slope. [Additional Reference(s): DWR Levee Log,						
2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.82)].						
FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39476\_66486.jpg



Slide gate inside CMP riser located on waterward slope.

LM Start	13.22	Rating **	M	Issue No.	1250
LM End	13.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 10.8 feet below the crown. Flap gate on the					
waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002.					
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)].					
FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39477\_66492.jpg



View of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	13.22	Rating **	M	Issue No.	1250 (cont)
LM End	13.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 10.8 feet below the crown. Flap gate on the					
waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002.					
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)].					
FS Date: 4/17/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39477\_66494.jpg



View of waterward slope.

LM Start	13.22	Rating **	M	Issue No.	1250 (cont)
LM End	13.22	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39477\_66495.jpg



Inside view of CMP riser located on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	13.23	Rating **	U	Issue No.	88
LM End	13.23	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.171678 °	37.171678 °
				-120.654920 °	-120.654920 °
DWR ID	DWR_NA0010_06_s_2018_88				
Comment Code					
PI : Pipe					
Inspector Comment					
Landowner or Farmer installed a 3-4 inch pipe across levee crown.					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_88\_20180420\_00179.jpg



Looking north at pipe across levee crown. (Spring 2018)

LM Start	<b>13.23</b>	Rating **	U	Issue No.	<b>88 (cont)</b>
LM End	<b>13.23</b>	Issue Type +	En	Location *	CR

Photo 2 of 2 : SP\_2018\_NA0010\_124\_88\_20180420\_00180.jpg



Looking east at pipe across levee crown. (Spring 2018)

LM Start	13.24	Rating **	M	Issue No.	89
LM End	15.66	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.171680 °	37.157145 °
				-120.654574 °	-120.617501 °
DWR ID	DWR_NA0010_06_s_2018_89				
Comment Code					
FE : Fence					
Inspector Comment					
Electric fence installed on waterward shoulder.					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_89\_20180420\_00181.jpg



Looking south at the start of electric fence on waterward shoulder. (Spring 2018)

**\* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	13.24	Rating **	M	Issue No.	89 (cont)	
LM End	15.66	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.171680 °	37.157145 °	
				-120.654574 °	-120.617501 °	
DWR ID	DWR_NA0010_06_s_2018_89					
Comment Code						
FE : Fence						
Inspector Comment						
Electric fence installed on waterward shoulder.						

Photo 2 of 2 : SP\_2018\_NA0010\_124\_89\_20180420\_00182.jpg



Looking north at electric fence on waterward shoulder. (Spring 2018)

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 stockpiled dirt at landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_68\_20180307\_00018.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  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	14.36	Rating **	M	Issue No.	1251
LM End	14.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39478\_66496.jpg



View of waterward slope.

LM Start	<b>14.36</b>	Rating **	M	Issue No.	<b>1251 (cont)</b>
LM End	<b>14.36</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39478\_66497.jpg



View of pipe daylight, flap gate, and concrete headwall visible on waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	14.36	Rating **	M	Issue No.	1251 (cont)	
LM End	14.36	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39478\_66498.jpg



View of landward slope.

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 : SP\_2018\_NA0010\_124\_1212\_20180307\_00046.jpg



Looking at rodent hole on 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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

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

LM Start	15.68	Rating **	M	Issue No.	1252
LM End	15.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.76)]. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39480\_66507.jpg



Flap gate buried halfway on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	15.68	Rating **	M	Issue No.	1252 (cont)	
LM End	15.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.76)]. FS Date: 4/17/2014						

LM Start	<b>15.68</b>	Rating **	M	Issue No.	<b>1252 (cont)</b>
LM End	<b>15.68</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39480\_66506.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39480\_66505.jpg



Overview of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1253
LM End	15.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16.6 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.91)]. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36663\_66530.jpg



View of waterward side, Photo 1 of 3.

LM Start	<b>15.82</b>	Rating **	M	Issue No.	<b>1253 (cont)</b>
LM End	<b>15.82</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36663\_66526.jpg



View of waterward side, photo 2 of 3.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1253 (cont)	
LM End	15.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16.6 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.91)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36663\_66529.jpg



View of waterward side, photo 3 of 3.

LM Start	16.40	Rating **	M	Issue No.	1254	
LM End	16.40	Issue Type +	En	Location *		
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 corrugated metal irrigation siphon pipe through the levee, 5.9 feet below the crown. Slide gate on the waterside (WS). Siphon extends under channel. [Additional Reference(s): USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.49)]. FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36665\_66541.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	16.40	Rating **	M	Issue No.	1254 (cont)	
LM End	16.40	Issue Type +	En	Location *		
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 corrugated metal irrigation siphon pipe through the levee, 5.9 feet below the crown. Slide gate on the waterside (WS). Siphon extends under channel. [Additional Reference(s): USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.49)].						
FS Date: 4/17/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36665\_66539.jpg



Concrete headwall and pipe visible on waterward side.

LM Start	<b>16.40</b>	Rating **	M	Issue No.	<b>1254 (cont)</b>
LM End	<b>16.40</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36665\_66540.jpg



View of landward side, photo 1 of 2.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	16.91	Rating **	U	Issue No.	73
LM End	16.91	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.143827 °	37.143827 °
				-120.602204 °	-120.602204 °
DWR ID	DWR_NA0010_06_f_2017_73				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent hole on crown that travels approximately 4 feet to landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_73\_20180307\_00024.jpg



Looking at rodent hole in levee crown.

LM Start	18.18	Rating **	U	Issue No.	72
LM End	18.18	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.127982 °	37.127982 °
				-120.590911 °	-120.590911 °
DWR ID	DWR_NA0010_06_f_2017_72				
Comment Code					
PI : Pipe					
Inspector Comment					
Non permitted pipe across the levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_72\_20180307\_00023.jpg



Looking northwest at the pipe across the levee crown.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	<b>18.81</b>	Rating **	U	Issue No.	<b>1256</b>
LM End	<b>18.81</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.119268 °	37.119268 °	
			-120.587208 °	-120.587208 °	

DWR ID	
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**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 siphon pipe through the levee, 8.8 feet below the crown. Slide gate in a pipe riser on the landside (LS) slope, not the waterside (WS) slope. Concrete headwall on the LS, not the WS. Siphon extends under the channel. 24-inch corrugated metal cleanout pipe at the center of the channel with a metal plate cover. (Plans for construction of two reinforced concrete siphons across the Eastside Bypass authorized under Permit No. 3040, 1959 - Newhall Land and Farming Company). [Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 7/20/2016

LM Start	<b>18.81</b>	Rating **	U	Issue No.	<b>1256 (cont)</b>
LM End	<b>18.81</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49974\_66562.jpg



View of WS. Channel section exposed near waterward toe.

Photo 2 of 3 : UCIP\_SP\_2018\_49974\_66564.jpg



Overview of Eastside Bypass.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	18.81	Rating **	U	Issue No.	1256 (cont)	
LM End	18.81	Issue Type +	En	Location *		
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 siphon pipe through the levee, 8.8 feet below the crown. Slide gate in a pipe riser on the landside (LS) slope, not the waterside (WS) slope. Concrete headwall on the LS, not the WS. Siphon extends under the channel. 24-inch corrugated metal cleanout pipe at the center of the channel with a metal plate cover. (Plans for construction of two reinforced concrete siphons across the Eastside Bypass authorized under Permit No. 3040, 1959 - Newhall Land and Farming Company). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49974\_66563.jpg



Channel sections have been excavated across Eastside Bypass.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	18.89	Rating **	M	Issue No.	1257	
LM End	18.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 10.2 feet below the crown. Slide gate in a pipe riser						
on the waterside (WS) slope. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM						
18.97)].						
FS Date: 4/17/2014						

LM Start	<b>18.89</b>	Rating **	M	Issue No.	<b>1257 (cont)</b>
LM End	<b>18.89</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36687\_66579.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36687\_66582.jpg



Inside view of CMP riser located on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	18.89	Rating **	M	Issue No.	1257 (cont)	
LM End	18.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.97)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36687\_66581.jpg



Pipe daylight on waterward side.

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 were noted on the waterside slope.					

Photo 1 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00041.jpg



Looking at rodent hole on waterward slope. Spring 2016

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	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 were noted on the waterside slope.					

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 2 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00042.jpg



Looking at several rodent holes on waterward slope. (Fall 2015)

Photo 3 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00043.jpg



Looking at close-up view of large rodent hole on waterward slope. (Spring 2015)

Photo 4 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00044.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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	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 were noted on the waterside slope.						

Photo 5 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00045.jpg



Looking west at several rodent holes on waterward slope. Spring 2015

LM Start	19.28	Rating **	M	Issue No.	1258	
LM End	19.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 20 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. Riprap along the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.36)]. FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36688\_66583.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.28	Rating **	M	Issue No.	1258 (cont)	
LM End	19.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 20 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. Riprap along the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.36)]. FS Date: 4/17/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36688\_66584.jpg



Riser located on waterward slope.

LM Start	<b>19.28</b>	Rating **	M	Issue No.	<b>1258 (cont)</b>
LM End	<b>19.28</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36688\_66586.jpg



View of landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.94	Rating **	M	Issue No.	1259
LM End	19.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.85)].					
FS Date: 4/17/2014					

LM Start	<b>19.94</b>	Rating **	M	Issue No.	<b>1259 (cont)</b>
LM End	<b>19.94</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36689\_66591.jpg



Overview of levee crown looking downstream.

Photo 2 of 3 : UCIP\_SP\_2018\_36689\_66592.jpg



View of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.94	Rating **	M	Issue No.	1259 (cont)	
LM End	19.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.85)].						
FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36689\_66590.jpg



View of "U" concrete headwall located on waterward side.

LM Start	20.05	Rating **	M	Issue No.	71
LM End	20.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.113256 °	37.113256 °
				-120.577092 °	-120.577092 °
DWR ID	DWR_NA0010_06_s_2018_71				
Comment Code					
MA : Material					
Inspector Comment					
Material stock pile on waterward shoulder.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_71\_20180420\_00184.jpg



Looking east at material stockpile on waterward shoulder. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	20.79	Rating **	M	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 landside slope greater than 3 inches. Erosion caused by livestock.					

LM Start	<b>20.79</b>	Rating **	M	Issue No.	<b>1209 (cont)</b>
LM End	<b>20.88</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_124\_1209\_20180307\_00039.jpg



Looking north at livestock erosion on landward slope.

Photo 2 of 2 : SP\_2018\_NA0010\_124\_1209\_20180307\_00040.jpg



Looking northeast at livestock erosion 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	21.28	Rating **	A/W	Issue No.	64
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.107670 °	°
				-120.557990 °	°
DWR ID	DWR_NA0010_06_f_2017_64				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:35					
Site Designation:253-136					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	22.41	Rating **	M	Issue No.	86
LM End	22.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.094969 °	37.094479 °
				-120.544964 °	-120.544435 °
DWR ID	DWR_NA0010_06_f_2017_86				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Erosion greater than 3 inches on landside slope caused by livestock.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_86\_20180307\_00035.jpg



Looking northwest at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

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

LM Start	24.02	Rating **	M	Issue No.	1260	
LM End	24.02	Issue Type +	En	Location *		
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 coated steel irrigation discharge pipe through the levee, 3.5 feet below the crown. Cutoff wall around the pipe at the center of the levee. Pump on the waterside (WS). Siphon breaker on the landside (LS) shoulder. Intake trench on the WS. (Plans to install a pump with a 16-inch pipeline over the levee authorized under Permit No. 13638, 1983 - Hamonds Ranch). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34010\_61871.jpg



Overview of levee crown at crossing.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	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 extends into landward shoulder.					

LM Start	<b>24.58</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>24.93</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : SP\_2018\_NA0010\_124\_5\_20180420\_00185.jpg



Looking north at livestock erosion into landward shoulder. (Spring 2018)

Photo 2 of 4 : SP\_2018\_NA0010\_124\_5\_20180307\_00007.jpg



Looking north at livestock erosion on landward slope. (Spring 2015)

Photo 3 of 4 : SP\_2018\_NA0010\_124\_5\_20180307\_00008.jpg



Looking north at livestock erosion on landward slope. (Spring 2014)

LM Start	<b>24.58</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>24.93</b>	Issue Type +	Ma	Location *	LS

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	24.58	Rating **	M	Issue No.	5 (cont)	
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 extends into landward shoulder.						

Photo 4 of 4 : SP\_2018\_NA0010\_124\_5\_20180307\_00009.jpg



Looking north at livestock erosion on landside slope. (Fall 2014)

LM Start	24.98	Rating **	M	Issue No.	83
LM End	24.98	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.066893 °	37.066893 °
				-120.514623 °	-120.514623 °
DWR ID	DWR_NA0010_06_f_2017_83				
Comment Code					
PI : Pipe					
Inspector Comment					
Landowner has a temporary pipe across the crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_83\_20180307\_00034.jpg



Looking southeast at the pipe on the levee crown.

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 landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_1208\_20180307\_00038.jpg



Rodent holes on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

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 landside slope. Levee crown has narrowed within this reach.					

LM Start	<b>27.64</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>27.97</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00003.jpg



Looking north at livestock erosion on landward slope. Fall 2015

Photo 2 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00004.jpg



Looking north at livestock erosion on landward shoulder and slope.(Spring 2015)

Photo 3 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00005.jpg



Looking north at livestock erosion on landside shoulder and slope. (Fall 2014)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	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 landside slope. Levee crown has narrowed within this reach.						

Photo 4 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00006.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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	29.44	Rating **	M	Issue No.	1261
LM End	29.44	Issue Type +	En	Location *	
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 corrugated metal gravity irrigation pipe through the levee, 12.4 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Cobble pad on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.34)]. FS Date: 4/10/2014					

LM Start	<b>29.44</b>	Rating **	M	Issue No.	<b>1261 (cont)</b>
LM End	<b>29.44</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39886\_66600.jpg



View of waterward side--slide gate inside CMP riser located on waterward slope.

Photo 2 of 3 : UCIP\_SP\_2018\_39886\_66603.jpg



Inside view of CMP riser located on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	29.44	Rating **	M	Issue No.	1261 (cont)	
LM End	29.44	Issue Type +	En	Location *		
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 corrugated metal gravity irrigation pipe through the levee, 12.4 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Cobble pad on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.34)].						
FS Date: 4/10/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39886\_66599.jpg



View of waterward side.

LM Start	30.36	Rating **	M	Issue No.	1262	
LM End	30.36	Issue Type +	En	Location *		
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						
reinforced concrete irrigation siphon pipe through the levee, 14.5 feet						
below the crown. Concrete U-shaped headwall on the outlet structure						
on the landside (LS) end. Slide gate mounted on the headwall.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 30.27)].						
FS Date: 4/10/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36693\_66607.jpg



Overview of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	30.36	Rating **	M	Issue No.	1262 (cont)	
LM End	30.36	Issue Type +	En	Location *		
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 reinforced concrete irrigation siphon pipe through the levee, 14.5 feet below the crown. Concrete U-shaped headwall on the outlet structure on the landside (LS) end. Slide gate mounted on the headwall. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.27)]. FS Date: 4/10/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36693\_66604.jpg



Overview of Eastside Bypass at crossing.

LM Start	<b>30.36</b>	Rating **	M	Issue No.	<b>1262 (cont)</b>
LM End	<b>30.36</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36693\_66609.jpg



Concrete pipe through Eastside Bypass exposed.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	30.81	Rating **	M	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					
Landside erosion greater than 1" in depth and greater than 3" in length. Erosion caused by livestock traffic.					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_1207\_20180307\_00036.jpg



Looking northeast at livestock erosion on landward slope.

LM Start	<b>30.81</b>	Rating **	M	Issue No.	<b>1207 (cont)</b>
LM End	<b>31.06</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_124\_1207\_20180307\_00037.jpg



Looking south at livestock erosion on landward slope.

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 : SP\_2018\_NA0010\_124\_2\_20180307\_00001.jpg



Looking west at rodent holes on landside slope and toe near fence line.

**\* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	31.10	Rating **	U	Issue No.	2 (cont)	
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 2 of 2 : SP\_2018\_NA0010\_124\_2\_20180307\_00002.jpg



Looking at typical rodent hole on landside slope.

LM Start	31.10	Rating **	U	Issue No.	80
LM End	31.10	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.017907 °	37.017907 °
				-120.434970 °	-120.434970 °
DWR ID	DWR_NA0010_06_s_2017_80				
Comment Code					
RA : Ramp					
Inspector Comment					
Farmer installed ramp on waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_80\_20180307\_00031.jpg



Looking upstream at new ramp on waterward slope.

LM Start	31.14	Rating **	U	Issue No.	82
LM End	31.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.017445 °	37.017445 °
				-120.434713 °	-120.434713 °
DWR ID	DWR_NA0010_06_f_2017_82				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_82\_20180307\_00033.jpg



Looking east at the waterside 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**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	32.00	Rating **	U	Issue No.	81
LM End	32.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.007007 °	37.007007 °
				-120.426179 °	-120.426179 °
DWR ID	DWR_NA0010_06_f_2017_81				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_81\_20180307\_00032.jpg



Looking west at the landside slope.

LM Start	33.08	Rating **	M	Issue No.	1263
LM End	33.08	Issue Type +	En	Location *	
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 the DS study) coated steel drainage discharge pipe through the levee, 3.9 feet below the crown. Electrical conduit through the levee. Cutoff wall around pipe at centerline of levee. Capped with a welded plate on the landside (LS) end. Siphon breaker on the apex of the pipe on the LS shoulder. Slant pump on the waterside (WS) slope. (To revise plans for a slant pump and an 18-inch steel pipe through the levee authorized under Permit No. 6416-A, 1975 - Triangle T. Ranch, Inc.). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/10/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_46183\_61898.jpg



View of waterward side--pipe and pump fenced off on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	33.08	Rating **	M	Issue No.	1263 (cont)	
LM End	33.08	Issue Type +	En	Location *		
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 the DS study) coated steel drainage discharge pipe through the levee, 3.9 feet below the crown. Electrical conduit through the levee. Cutoff wall around pipe at centerline of levee. Capped with a welded plate on the landside (LS) end. Siphon breaker on the apex of the pipe on the LS shoulder. Slant pump on the waterside (WS) slope. (To revise plans for a slant pump and an 18-inch steel pipe through the levee authorized under Permit No. 6416-A, 1975 - Triangle T. Ranch, Inc.). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/10/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_46183\_61902.jpg



Electrical conduit visible on waterward slope.

LM Start	<b>33.08</b>	Rating **	M	Issue No.	<b>1263 (cont)</b>
LM End	<b>33.08</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_46183\_61903.jpg



View of Eastside Bypass.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	35.42	Rating **	M	Issue No.	1264	
LM End	35.42	Issue Type +	En	Location *		
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: 48-inch by 72-inch reinforced concrete box gravity irrigation culvert through the levee, 15.1 feet below the crown. Slide gate in a concrete riser in the waterside (WS) slope. Concrete U-shaped headwall on each end. Landside (LS) channel cobble revetted for 8 feet. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 35.33)].						
FS Date: 4/10/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39481\_66628.jpg



View of waterward side--slide gate inside concrete box.

LM Start	<b>35.42</b>	Rating **	M	Issue No.	<b>1264 (cont)</b>
LM End	<b>35.42</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39481\_66632.jpg



View of waterward slope covered by dense vegetation.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	35.42	Rating **	M	Issue No.	1264 (cont)	
LM End	35.42	Issue Type +	En	Location *		
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: 48-inch by 72-inch reinforced concrete box gravity irrigation culvert through the levee, 15.1 feet below the crown. Slide gate in a concrete riser in the waterside (WS) slope. Concrete U-shaped headwall on each end. Landside (LS) channel cobble revetted for 8 feet. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 35.33)]. FS Date: 4/10/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39481\_66629.jpg



Inside view of concrete box located on waterward slope.

LM Start	35.85	Rating **	M	Issue No.	77
LM End	35.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.974397 °	36.974397 °
				-120.374415 °	-120.374415 °
DWR ID	DWR_NA0010_06_f_2017_77				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Landowner installed a raincoat on landside levee at location of temporary pipe. Need to assess landside slope to determine/repair any possible damage.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_77\_20180307\_00029.jpg



Looking southwest at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	35.85	Rating **	U	Issue No.	75
LM End	35.85	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.974398 °	36.974398 °
				-120.374403 °	-120.374403 °
DWR ID	DWR_NA0010_06_f_2017_75				
Comment Code					
PI : Pipe					
Inspector Comment					
Landowner has installed a temporary pipe across the levee.					

LM Start	<b>35.85</b>	Rating **	U	Issue No.	<b>75 (cont)</b>
LM End	<b>35.85</b>	Issue Type +	En	Location *	CR

Photo 1 of 3 : SP\_2018\_NA0010\_124\_75\_20180307\_00026.jpg



Looking east at the levee crown pipe crossing.

Photo 2 of 3 : SP\_2018\_NA0010\_124\_75\_20180307\_00027.jpg



Looking northeast at the waterside slope.

LM Start	<b>35.85</b>	Rating **	U	Issue No.	<b>75 (cont)</b>
LM End	<b>35.85</b>	Issue Type +	En	Location *	CR

Photo 3 of 3 : SP\_2018\_NA0010\_124\_75\_20180307\_00028.jpg



Looking southwest at the landside 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	36.28	Rating **	A/W	Issue No.	74
LM End	36.39	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.974411 °	36.974422 °
				-120.366674 °	-120.364632 °
DWR ID	DWR_NA0010_06_f_2017_74				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_74\_20180307\_00025.jpg



Looking west at the levee crown.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	19
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.255590 °	°
				-120.772353 °	°
DWR ID	DWR_NA0010_07_s _ 2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	18
LM End	3.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.255591 °	37.254796 °
				-120.772353 °	-120.719636 °
DWR ID	DWR_NA0010_07_s _ 2018_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	30 (cont)	
LM End	0.07	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.07)]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49966\_60953.jpg



Pipe and headwall at LS toe.

LM Start	0.24	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			37.256936 °	37.258722 °
				-120.768472 °	-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 landside and waterside slope and shoulder.					

Photo 1 of 2 : SP\_2018\_NA0010\_125\_29\_20180307\_00008.jpg



Looking north at landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	29 (cont)	
LM End	0.50	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.256936 °	37.258722 °	
				-120.768472 °	-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 landside and waterside slope and shoulder.						

Photo 2 of 2 : SP\_2018\_NA0010\_125\_29\_20180307\_00009.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	0.33	Rating **	A/W	Issue No.	31
LM End	0.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.257691 °	37.257691 °
				-120.767203 °	-120.767203 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33712 DS_ID:19893 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.33)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33712\_60958.jpg



Pipe and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.33	Rating **	A/W	Issue No.	31 (cont)	
LM End	0.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.257691 °	37.257691 °	
				-120.767203 °	-120.767203 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33712 DS_ID:19893 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.33)]. FS Date: 4/15/2014						

LM Start	<b>0.33</b>	Rating **	A/W	Issue No.	<b>31 (cont)</b>
LM End	<b>0.33</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33712\_60957.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33712\_60959.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	32
LM End	0.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete U-shaped headwall on the LS end. Inlet channel cobble revetted. Dilapidated wooden pier on the waterside (WS). WS slope and outlet ditch cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.49)]. FS Date: 4/15/2014					

LM Start	<b>0.49</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>0.49</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33713\_60963.jpg



Slide gate in CMP riser on WS slope.

Photo 2 of 3 : UCIP\_SP\_2018\_33713\_60965.jpg



Outlet on WS slope.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	32 (cont)	
LM End	0.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 9.7 feet below the crown. Slide gate in a 48-inch						
corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete						
U-shaped headwall on the LS end. Inlet channel cobble revetted.						
Dilapidated wooden pier on the waterside (WS). WS slope and outlet						
ditch cobble revetted. [Additional Reference(s): DWR Levee Log, 2002.						
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.49)].						
FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33713\_60964.jpg



Pipe and headwall on LS toe.

LM Start	0.53	Rating **	A/W	Issue No.	33
LM End	0.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.259163 °	37.259163 °
				-120.764860 °	-120.764860 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33723 DS_ID:19895 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall with a wooden weir at the inlet on the landside (LS) toe. Concrete U-shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.53)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33723\_60981.jpg



Headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.53	Rating **	A/W	Issue No.	33 (cont)	
LM End	0.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.259163 °	37.259163 °	
				-120.764860 °	-120.764860 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33723 DS_ID:19895 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall with a wooden weir at the inlet on the landside (LS) toe. Concrete U-shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.53)]. FS Date: 4/15/2014						

LM Start	<b>0.53</b>	Rating **	A/W	Issue No.	<b>33 (cont)</b>
LM End	<b>0.53</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33723\_60983.jpg



Flapgate on concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33723\_60982.jpg



Headwall, pipe, and wier on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.85	Rating **	M	Issue No.	34
LM End	0.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Wooden weir on concrete headwall at the landside (LS) toe. 36-inch concrete riser at the LS toe. Concrete U-shaped headwall on the WS end. Concrete standpipe on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.85)]. FS Date: 4/15/2014					

LM Start	<b>0.85</b>	Rating **	M	Issue No.	<b>34 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39507\_60986.jpg



Headwall and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39507\_60988.jpg



Headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.85	Rating **	M	Issue No.	34 (cont)	
LM End	0.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Wooden weir on concrete headwall at the landside (LS) toe. 36-inch concrete riser at the LS toe. Concrete U-shaped headwall on the WS end. Concrete standpipe on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.85)].						
FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39507\_60987.jpg



Concrete riser, concrete headwall, weir, and pipe at LS toe.

LM Start	0.94	Rating **	A/W	Issue No.	35
LM End	0.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263950 °	37.263950 °
				-120.760572 °	-120.760572 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33725 DS_ID:19897 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.94)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33725\_60991.jpg



Concrete headwall and flapgate at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.94	Rating **	A/W	Issue No.	35 (cont)	
LM End	0.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.263950 °	37.263950 °	
				-120.760572 °	-120.760572 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33725 DS_ID:19897 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.94)]. FS Date: 4/15/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33725\_60993.jpg



Concrete headwall and flapgate at WS toe.

LM Start	<b>0.94</b>	Rating **	A/W	Issue No.	<b>35 (cont)</b>
LM End	<b>0.94</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33725\_60992.jpg



Concrete headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.17	Rating **	A/W	Issue No.	36
LM End	1.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.264421 °	37.264421 °
				-120.756683 °	-120.756683 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33726					
DS_ID:19898					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe					
through the levee, 14.6 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete U-shaped headwall on each end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin					
O&M Manual 601.1, 1967, (HLM 1.17)].					
FS Date: 4/15/2014					

LM Start	<b>1.17</b>	Rating **	A/W	Issue No.	<b>36 (cont)</b>
LM End	<b>1.17</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33726\_60996.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_33726\_60995.jpg



Flapgate at headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.17	Rating **	A/W	Issue No.	36 (cont)	
LM End	1.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.264421 °	37.264421 °	
				-120.756683 °	-120.756683 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33726						
DS_ID:19898						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe						
through the levee, 14.6 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete U-shaped headwall on each end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 1.17)].						
FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33726\_60997.jpg



Pipe and headwall on LS 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 : SP\_2018\_NA0010\_125\_1\_20180307\_00001.jpg



Looking north at several rodent holes on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	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 : SP\_2018\_NA0010\_125\_1\_20180307\_00002.jpg



Looking at east at active rodent holes on landside berm.

LM Start	1.49	Rating **	M	Issue No.	16
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.263999 °	37.263999 °
				-120.750854 °	-120.750854 °
DWR ID	DWR_NA0010_07_f_2017_16				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Repair slope damaged by animal traffic.					

Photo 1 of 1 : SP\_2018\_NA0010\_125\_16\_20180307\_00006.jpg



Looking east at landside slope.

LM Start	1.50	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			37.263955 °	37.263885 °
				-120.750751 °	-120.750527 °
DWR ID	DWR_NA0010_07_s_2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_125\_6\_20180411\_00043.jpg



Looking at typical view of rodent holes within this section. (Spring 2018)

**\* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.50	Rating **	M	Issue No.	6 (cont)	
LM End	1.51	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.263955 °		37.263885 °
				-120.750751 °		-120.750527 °
DWR ID	DWR_NA0010_07_s_2014_6					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP\_2018\_NA0010\_125\_6\_20180307\_00003.jpg



Looking northwest at landside slope.

LM Start	1.50	Rating **	A/W	Issue No.	37
LM End	1.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263917 °	37.263917 °
				-120.750694 °	-120.750694 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33727					
DS_ID:19902					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 14 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete U-shaped headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 1.51)].					
FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33727\_61001.jpg



Pipe, headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.50	Rating **	A/W	Issue No.	37 (cont)
LM End	1.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263917 °	37.263917 °
				-120.750694 °	-120.750694 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33727					
DS_ID:19902					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 14 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete U-shaped headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 1.51)].					
FS Date: 4/15/2014					

LM Start	<b>1.50</b>	Rating **	A/W	Issue No.	<b>37 (cont)</b>
LM End	<b>1.50</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33727\_61003.jpg



Pipe, headwall and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33727\_61002.jpg



Headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	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	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 : SP\_2018\_NA0010\_125\_12\_20180307\_00004.jpg



Looking east at rodent hole next to fence post on landward shoulder.

LM Start	<b>2.09</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>2.09</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_125\_12\_20180307\_00005.jpg



Looking at rodent activity next to 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**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	17
LM End	2.18	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259007 °	37.258726 °
				-120.742050 °	-120.741118 °
DWR ID	DWR_NA0010_07_f_2017_17				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_125\_17\_20180307\_00007.jpg



Looking southeast at the crown.

LM Start	2.48	Rating **	A/W	Issue No.	38
LM End	2.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.255803 °	37.255803 °
				-120.737246 °	-120.737246 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33728					
DS_ID:19899					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.48)].					
FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33728\_61006.jpg



Headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.48	Rating **	A/W	Issue No.	38 (cont)	
LM End	2.48	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.255803 °	37.255803 °	
				-120.737246 °	-120.737246 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33728						
DS_ID:19899						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.5 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-						
shaped headwall on the WS end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.48)].						
FS Date: 4/15/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33728\_61008.jpg



Concrete headwall and flapgate at WS toe.

LM Start	<b>2.48</b>	Rating **	A/W	Issue No.	<b>38 (cont)</b>
LM End	<b>2.48</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33728\_61007.jpg



Concrete headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.63	Rating **	A/W	Issue No.	39
LM End	2.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.254832 °	37.254832 °
				-120.734918 °	-120.734918 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33729 DS_ID:19900 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.64)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33729\_61011.jpg



Concrete headwall and flapgate on WS toe.

LM Start	<b>2.63</b>	Rating **	A/W	Issue No.	<b>39 (cont)</b>
LM End	<b>2.63</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33729\_61010.jpg



Concrete headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.63	Rating **	A/W	Issue No.	39 (cont)	
LM End	2.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.254832 °	37.254832 °	
				-120.734918 °	-120.734918 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33729 DS_ID:19900 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.64)]. FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33729\_61012.jpg



Concrete headwall and pipe at LS toe.

LM Start	3.09	Rating **	M	Issue No.	40
LM End	3.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39508\_61016.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.09	Rating **	M	Issue No.	40 (cont)	
LM End	3.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)]. FS Date: 4/15/2014						

LM Start	<b>3.09</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>3.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39508\_61015.jpg



Headwall, pipe, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39508\_61017.jpg



Headwall and pipe on LS toe.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	20
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.253103 °	37.254137 °
				-120.768464 °	-120.718851 °
DWR ID	DWR_NA0010_08_s_2018_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_20\_20180411\_00043.jpg



Looking east at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	21
LM End	3.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.253104°	37.254136°
				-120.768464°	-120.718851°
DWR ID	DWR_NA0010_08_s_2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_21\_20180411\_00044.jpg



Looking west at typical view of waterward slope. (Spring 2018)

\* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.23	Rating **	A/W	Issue No.	22
LM End	0.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.256092 °	37.256092 °
				-120.767873 °	-120.767873 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33751					
DS_ID:19903					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.23)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33751\_61068.jpg



Headwall and flapgate on WS toe.

LM Start	<b>0.23</b>	Rating **	A/W	Issue No.	<b>22 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33751\_61067.jpg



Headwall and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.23	Rating **	A/W	Issue No.	22 (cont)	
LM End	0.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.256092 °	37.256092 °	
				-120.767873 °	-120.767873 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33751 DS_ID:19903 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.23)]. FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33751\_61069.jpg



Concrete headwall on LS toe.

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

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.57	Rating **	A/W	Issue No.	23
LM End	0.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.258604 °	37.258604 °
				-120.763588 °	-120.763588 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33752					
DS_ID:19904					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 12.4 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 0.57)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33752\_61073.jpg



Pipe, flapgate and headwall on WS toe.

LM Start	<b>0.57</b>	Rating **	A/W	Issue No.	<b>23 (cont)</b>
LM End	<b>0.57</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33752\_61072.jpg



Pipe, flapgate and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.57	Rating **	A/W	Issue No.	23 (cont)	
LM End	0.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.258604 °	37.258604 °	
				-120.763588 °	-120.763588 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33752						
DS_ID:19904						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 12.4 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 0.57)].						
FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33752\_61074.jpg



Pipe and headwall on LS toe.

LM Start	0.72	Rating **	A/W	Issue No.	24
LM End	0.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.260306 °	37.260306 °
				-120.762127 °	-120.762127 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33753 DS_ID:19905 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.72)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33753\_61078.jpg



Headwall and flapgate at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.72	Rating **	A/W	Issue No.	24 (cont)	
LM End	0.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.260306 °	37.260306 °	
				-120.762127 °	-120.762127 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33753						
DS_ID:19905						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.72)].						
FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33753\_61080.jpg



Headwall and flapgate at WS toe.

LM Start	<b>0.72</b>	Rating **	A/W	Issue No.	<b>24 (cont)</b>
LM End	<b>0.72</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33753\_61079.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.90	Rating **	M	Issue No.	25
LM End	0.90	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.89)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39887\_61084.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>0.90</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>0.90</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39887\_61083.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.90	Rating **	M	Issue No.	25 (cont)	
LM End	0.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 11.5 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 0.89)].						
FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39887\_61085.jpg



Pipe and headwall on LS toe.

LM Start	1.16	Rating **	A/W	Issue No.	5
LM End	3.18	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.263243 °	37.251737 °
				-120.756372 °	-120.726246 °
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 : SP\_2018\_NA0010\_126\_5\_20180307\_00004.jpg



Looking west at depression on toward landward shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	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					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_2\_20180307\_00001.jpg



Looking south at the landside shoulder.

LM Start	1.21	Rating **	M	Issue No.	26
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.21)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39509\_61090.jpg



Concrete headwall, pipe, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.21	Rating **	M	Issue No.	26 (cont)	
LM End	1.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.21)]. FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39509\_61091.jpg



Concrete headwall, pipe, and flapgate on WS toe.

LM Start	1.21	Rating **	M	Issue No.	26 (cont)
LM End	1.21	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39509\_61089.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	8
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263175 °	37.263175 °
				-120.752307 °	-120.752307 °
DWR ID	DWR_NA0010_08_s_2013_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_8\_20180307\_00006.jpg



Looking west at rodent holes on landward slope.

LM Start	1.38	Rating **	M	Issue No.	27
LM End	1.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.38)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39510\_61094.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	27 (cont)	
LM End	1.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.38)]. FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39510\_61093.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>1.38</b>	Rating **	M	Issue No.	<b>27 (cont)</b>
LM End	<b>1.38</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39510\_61095.jpg



Animal burrows along alignment on LS slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	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.	28
LM End	2.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39511\_61098.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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	28 (cont)	
LM End	2.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39511\_61099.jpg



Pipe and headwall buried in sediment at LS toe.

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39511\_61097.jpg



Pipe and headwall buried in sediment at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	29
LM End	2.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 9.5 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete headwall on each end. [Additional Reference(s):					
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,					
(HLM 2.12)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39512\_61102.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>2.12</b>	Rating **	M	Issue No.	<b>29 (cont)</b>
LM End	<b>2.12</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39512\_61100.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	29 (cont)	
LM End	2.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 9.5 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on each end. [Additional Reference(s):						
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,						
(HLM 2.12)].						
FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39512\_61101.jpg



Pipe and headwall on LS toe.

LM Start	2.77	Rating **	A/W	Issue No.	30
LM End	2.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252228 °	37.252228 °
				-120.732890 °	-120.732890 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33760					
DS_ID:19837					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 10.5 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 2.77)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33760\_61107.jpg



Pipe, headwall, and flapgate on Ws toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.77	Rating **	A/W	Issue No.	30 (cont)	
LM End	2.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.252228 °	37.252228 °	
				-120.732890 °	-120.732890 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33760						
DS_ID:19837						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 10.5 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 2.77)].						
FS Date: 4/16/2014						

LM Start	<b>2.77</b>	Rating **	A/W	Issue No.	<b>30 (cont)</b>
LM End	<b>2.77</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33760\_61105.jpg



Pipe, headwall, and flapgate on Ws toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33760\_61106.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.06	Rating **	M	Issue No.	31
LM End	3.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 13.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.06)]. FS Date: 7/20/2016					

Photo 1 of 3 : UCIP\_SP\_2018\_49969\_61112.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>3.06</b>	Rating **	M	Issue No.	<b>31 (cont)</b>
LM End	<b>3.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_49969\_61113.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.06	Rating **	M	Issue No.	31 (cont)
LM End	3.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 13.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.06)]. FS Date: 7/20/2016					

Photo 3 of 3 : UCIP\_SP\_2018\_49969\_61111.jpg



Pipe and headwall on LS toe.

LM Start	3.24	Rating **	A/W	Issue No.	32
LM End	3.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252230 °	37.252230 °
				-120.725504 °	-120.725504 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33764					
DS_ID:19839					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 10 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete headwall on each end. [Additional Reference(s):					
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,					
(HLM 3.24)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33764\_61128.jpg



Pipe, flapgate, and headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.24	Rating **	A/W	Issue No.	32 (cont)	
LM End	3.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.252230 °	37.252230 °	
				-120.725504 °	-120.725504 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33764						
DS_ID:19839						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 10 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on each end. [Additional Reference(s):						
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,						
(HLM 3.24)].						
FS Date: 4/16/2014						

LM Start	<b>3.24</b>	Rating **	A/W	Issue No.	<b>32 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33764\_61127.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33764\_61129.jpg



Pipe and headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	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 landside slope within this reach.					

LM Start	<b>3.40</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>3.54</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_126\_3\_20180307\_00002.jpg



Looking east at the crown towards the landside.

Photo 2 of 2 : SP\_2018\_NA0010\_126\_3\_20180307\_00003.jpg



Looking at typical view of rodent holes on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.43	Rating **	M	Issue No.	33	
LM End	3.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)]. FS Date: 4/16/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39513\_61134.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>3.43</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>3.43</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39513\_61133.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.43	Rating **	M	Issue No.	33 (cont)	
LM End	3.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)]. FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39513\_61132.jpg



Pipe likely at drainage swale off LS toe.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	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 - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	5
LM End	0.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.220222 °	37.220051 °
				-120.713000 °	-120.698417 °
DWR ID	DWR_NA0010_09_s_2018_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_127\_5\_20180411\_00012.jpg



Looking downstream at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	6
LM End	0.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.220222 °	37.220051 °
				-120.713000 °	-120.698417 °
DWR ID	DWR_NA0010_09_s_2018_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_127\_6\_20180411\_00011.jpg



Looking downstream at typical view of waterward slope. (Spring 2018)

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.47	Rating **	M	Issue No.	7	
LM End	0.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 18.7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.47)]. FS Date: 4/22/2014						

LM Start	<b>0.47</b>	Rating **	M	Issue No.	<b>7 (cont)</b>
LM End	<b>0.47</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39888\_62119.jpg



Slide gate in CMP riser on WS slope with outlet visible in background.

Photo 2 of 3 : UCIP\_SP\_2018\_39888\_62117.jpg



Concrete headwall visible under water on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.47	Rating **	M	Issue No.	7 (cont)	
LM End	0.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 18.7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.						
Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.47)].						
FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39888\_62118.jpg



Concrete headwall visible at inlet on LS toe.

LM Start	0.69	Rating **	M	Issue No.	8
LM End	0.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.70)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39515\_62128.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.69	Rating **	M	Issue No.	8 (cont)	
LM End	0.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 8.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.70)]. FS Date: 4/22/2014						

LM Start	<b>0.69</b>	Rating **	M	Issue No.	<b>8 (cont)</b>
LM End	<b>0.69</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39515\_62132.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39515\_62129.jpg



Headwall and pipe on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.86	Rating **	M	Issue No.	4
LM End	0.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.220041 °	37.220041 °
				-120.698425 °	-120.698425 °
DWR ID	DWR_NA0010_09_f _ 2017_4				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_127\_4\_20180307\_00001.jpg



Looking northwest at landside slope.

LM Start	0.87	Rating **	A/W	Issue No.	9
LM End	0.87	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.220051 °	37.220051 °
				-120.698374 °	-120.698374 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34186 DS_ID:19843 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Two slide gates in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the landside (LS) end. WS end cobble revetted on the bank and in the outlet drain. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.87)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34186\_62134.jpg



48-inch CMP riser with slide gates on WS slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.87	Rating **	A/W	Issue No.	9 (cont)	
LM End	0.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.220051 °	37.220051 °	
				-120.698374 °	-120.698374 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34186 DS_ID:19843 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Two slide gates in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the landside (LS) end. WS end cobble revetted on the bank and in the outlet drain. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.87)]. FS Date: 4/22/2014						

LM Start	<b>0.87</b>	Rating **	A/W	Issue No.	<b>9 (cont)</b>
LM End	<b>0.87</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34186\_62133.jpg



Inside CMP riser on WS slope.

Photo 3 of 3 : UCIP\_SP\_2018\_34186\_62137.jpg



Outlet at WS toe.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	3
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.217893 °	37.219331 °
				-120.711456 °	-120.698171 °
DWR ID	DWR_NA0010_10_s _ 2018_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA to maintain vegetation on LS slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_128\_3\_20180411\_00005.jpg



Looking upstream at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	4
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.217893 °	37.219335 °
				-120.711456 °	-120.698172 °
DWR ID	DWR_NA0010_10_s _ 2018_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA to maintain vegetation on WS slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_128\_4\_20180411\_00006.jpg



Looking northeast at typical view of waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.30	Rating **	M	Issue No.	5	
LM End	0.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 19.6 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.31)]. FS Date: 4/22/2014						

LM Start	<b>0.30</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>0.30</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39516\_62144.jpg



Headwall and pipe visible on LS toe. Slide gate inside 48-inch CMP riser on WS slope.

Photo 2 of 3 : UCIP\_SP\_2018\_39516\_62146.jpg



Headwall and pipe on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.30	Rating **	M	Issue No.	5 (cont)	
LM End	0.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 19.6 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.31)]. FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39516\_62145.jpg



Headwall and pipe on LS toe. Pipe blocked by wooden cover.

LM Start	0.32	Rating **	A/W	Issue No.	2
LM End	0.32	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.219192 °	37.219192 °
				-120.706295 °	-120.706295 °
DWR ID	DWR_NA0010_10_f_2017_2				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_128\_2\_20180307\_00001.jpg



Looking west at the crown.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/16/2018 - 4/16/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	10
LM End	3.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.202749 °	37.202321 °
				-120.755184 °	-120.695304 °
DWR ID	DWR_NA0010_11_s_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_129\_10\_20180420\_00024.jpg



Looking south at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	11
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.202749 °	37.202321 °
				-120.755184 °	-120.695304 °
DWR ID	DWR_NA0010_11_s_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_129\_11\_20180420\_00023.jpg



Looking south at typical view of waterward slope. (Spring 2018)

\* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	12
LM End	0.42	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.42)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39517\_66644.jpg



View of slide gate inside CMP riser located on waterward slope.

LM Start	<b>0.42</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>0.42</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39517\_66643.jpg



View of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	12 (cont)	
LM End	0.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.42)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39517\_66642.jpg



View of landward side.

LM Start	0.65	Rating **	M	Issue No.	13
LM End	0.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe					
through the levee, 10 feet below the crown. Flap gate on the waterside					
(WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE					
San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39518\_61997.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	13 (cont)	
LM End	0.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 10 feet below the crown. Flap gate on the waterside						
(WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)].						
FS Date: 4/18/2014						

LM Start	<b>0.65</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39518\_61996.jpg



View of landward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39518\_61999.jpg



Flap gate and concrete apron located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.84	Rating **	M	Issue No.	14
LM End	0.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.84)].					
FS Date: 4/18/2014					

LM Start	<b>0.84</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.84</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39519\_62003.jpg



Overview of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39519\_62002.jpg



Concrete headwall and flap gate visible on waterward side.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.84	Rating **	M	Issue No.	14 (cont)
LM End	0.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.84)].					
FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39519\_62001.jpg



View of landward side.

LM Start	1.13	Rating **	M	Issue No.	15
LM End	1.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.13)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39520\_62008.jpg



View of waterward side--flap gate visible at levee toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	15 (cont)	
LM End	1.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.13)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39520\_62007.jpg



View of landward side.

LM Start	<b>1.13</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>1.13</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39520\_62006.jpg



Concrete headwall located on landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.49	Rating **	M	Issue No.	9
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.202748 °	37.202748 °
				-120.728182 °	-120.728182 °
DWR ID	DWR_NA0010_11_f_2017_9				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_129\_9\_20180307\_00001.jpg



Looking northwest at landside slope.

LM Start	1.49	Rating **	M	Issue No.	16
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 16.3 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.50)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39521\_62018.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.49	Rating **	M	Issue No.	16 (cont)	
LM End	1.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 16.3 feet below the crown. Slide gate in a pipe riser						
on the waterside (WS) slope. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.50)].						
FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39521\_62017.jpg



View of concrete headwall located on waterward side.

LM Start	<b>1.49</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>1.49</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39521\_62016.jpg



Inside view of pipe from waterward side--sediment build up.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	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.	17
LM End	1.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 12.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.99)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39522\_62024.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.98	Rating **	M	Issue No.	17 (cont)	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 12.8 feet below the crown. Flap gate on the						
waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002.						
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.99)].						
FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39522\_62025.jpg



Flap gate located on waterward side.

LM Start	<b>1.98</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>1.98</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39522\_62023.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.04	Rating **	M	Issue No.	18
LM End	3.04	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.04)].					
FS Date: 4/18/2014					

LM Start	<b>3.04</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>3.04</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39523\_62028.jpg



Overview of waterward side--flap gate, concrete headwall and apron visible on levee toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39523\_62027.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.04	Rating **	M	Issue No.	18 (cont)	
LM End	3.04	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.04)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39523\_62030.jpg



Concrete headwall located on landward side--debris in front of headwall.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/16/2018 - 4/16/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	12
LM End	3.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200959 °	37.200979 °
				-120.755286 °	-120.694899 °
DWR ID	DWR_NA0010_12_s_2018_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_130\_12\_20180420\_00025.jpg



Looking south at typical view of waterward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	11
LM End	3.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200959 °	37.200981 °
				-120.755286 °	-120.694899 °
DWR ID	DWR_NA0010_12_s_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_130\_11\_20180420\_00026.jpg



Looking south at typical view of landward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	14
LM End	0.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.39)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36704\_66647.jpg



View of waterward side.

LM Start	<b>0.40</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36704\_66649.jpg



Concrete headwall and flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	14 (cont)	
LM End	0.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.39)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36704\_66648.jpg



View of waterward side--medium grass throughout slope.

LM Start	0.44	Rating **	M	Issue No.	13
LM End	3.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200945 °	37.200981 °
				-120.747236 °	-120.694899 °
DWR ID	DWR_NA0010_12_s_ 2018_13				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	15
LM End	1.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.06)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39889\_62048.jpg



View of waterward side.

LM Start	<b>1.06</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>1.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39889\_62049.jpg



Concrete headwall and flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	15 (cont)	
LM End	1.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 10.5 feet below the crown. Flap gate on the						
waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002.						
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.06)].						
FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39889\_62047.jpg



View of landward side.

LM Start	1.27	Rating **	M	Issue No.	16
LM End	1.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 17.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.27)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36705\_66654.jpg



Overview of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	17
LM End	1.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34126\_62060.jpg



View of waterward side.

LM Start	<b>1.53</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>1.53</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34126\_62061.jpg



Concrete headwall and flap gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	17 (cont)	
LM End	1.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34126\_62059.jpg



View of landward side--limited access due to fence.

LM Start	2.16	Rating **	M	Issue No.	18
LM End	2.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.16)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39506\_62064.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.16	Rating **	M	Issue No.	18 (cont)	
LM End	2.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.16)].						
FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39506\_62063.jpg



Overview of levee crown at crossing.

LM Start	<b>2.16</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>2.16</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39506\_62062.jpg



Dense vegetation on landward side--limited access due to fence along landward side.

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

No Photos

Photo 1 of 3 : UCIP SP 2018 39890 62069.jpg



View of waterward side.

* 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                      AWW : Acceptable but Monitor & Maintain	En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.70	Rating **	M	Issue No.	19 (cont)	
LM End	2.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe						
through the levee, 10.7 feet below the crown. Flap gate on the						
waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002.						
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.70)].						
FS Date: 4/18/2014						

LM Start	<b>2.70</b>	Rating **	M	Issue No.	<b>19 (cont)</b>
LM End	<b>2.70</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39890\_62070.jpg



Concrete headwall and flat gate located on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39890\_62068.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	20
LM End	3.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.00)]. FS Date: 11/10/2015 9:29:00 AM					

LM Start	<b>3.00</b>	Rating **	M	Issue No.	<b>20 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_46786\_62073.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_46786\_74729.jpg



Repair to headwall located on waterward side has been addressed.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	20 (cont)	
LM End	3.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.00)]. FS Date: 11/10/2015 9:29:00 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_46786\_62072.jpg



Side view of concrete headwall which appears to be slightly slanted forward--missing soil behind headwall.

LM Start	3.00	Rating **	M	Issue No.	10
LM End	3.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			37.200912 °	37.200916 °
				-120.700797 °	-120.700536 °
DWR ID	DWR_NA0010_12_f_2017_10				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Cracking on crown near shoulder approximately 75 feet long should be monitored.					

Photo 1 of 3 : SP\_2018\_NA0010\_130\_10\_20180307\_00001.jpg



Looking west at the waterside shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	10 (cont)	
LM End	3.02	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Cracking			37.200912 °		37.200916 °
				-120.700797 °		-120.700536 °
DWR ID	DWR_NA0010_12_f_2017_10					
Comment Code						
CR1 : Monitor and have inspected by geotechnical engineer.						
Inspector Comment						
Cracking on crown near shoulder approximately 75 feet long should be monitored.						

Photo 2 of 3 : SP\_2018\_NA0010\_130\_10\_20180307\_00002.jpg



Typical measurement of the cracking on crown shoulder.

LM Start	<b>3.00</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>3.02</b>	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : SP\_2018\_NA0010\_130\_10\_20180307\_00003.jpg



Typical depth of the cracking on crown 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	<b>3.33</b>	Rating **	M	Issue No.	<b>21</b>
LM End	<b>3.33</b>	Issue Type +	En	Location *	
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 corrugated metal irrigation siphon pipe through the levee and under the channel, 17.5 feet below the crown. Slide gate on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.36)]. FS Date: 4/18/2014					

No Photos

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/5/2018 - 4/5/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	1.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.033765 °	37.046311 °
				-120.442120 °	-120.428114 °
DWR ID	DWR_NA0010_13_s_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_131\_8\_20180411\_00017.jpg



Looking upstream at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.033767 °	37.046311 °
				-120.442121 °	-120.428114 °
DWR ID	DWR_NA0010_13_s_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_131\_9\_20180411\_00018.jpg



Looking upstream at typical view of waterward slope. (Spring 2018)

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			37.035760 °	37.035760 °
				-120.441282 °	-120.441282 °
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					

Photo 1 of 1 : SP\_2018\_NA0010\_131\_3\_20180307\_00001.jpg



Looking at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

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			37.042888 °	37.042888 °
				-120.436616 °	-120.436616 °
DWR ID	DWR_NA0010_13_f_2016_4				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on waterside 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 waterside slope.					

LM Start	<b>0.91</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>0.91</b>	Issue Type +	En	Location *	WS

Photo 1 of 3 : SP\_2018\_NA0010\_131\_5\_20180307\_00002.jpg



Looking at unauthorized ramp on waterward slope. (Fall 2014)

Photo 2 of 3 : SP\_2018\_NA0010\_131\_5\_20180307\_00003.jpg



Looking west at unauthorized ramp on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	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 waterside slope.						

Photo 3 of 3 : SP\_2018\_NA0010\_131\_5\_20180307\_00004.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 *	
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					
Sand dam may have been blown out due to high flows in 2017 but has been restored.					

Photo 1 of 6 : SP\_2018\_NA0010\_131\_6\_20180307\_00005.jpg



Looking overview of sand dam.

LM Start	<b>1.14</b>	Rating **	U	Issue No.	<b>6 (cont)</b>
LM End	<b>1.14</b>	Issue Type +	En	Location *	

Photo 2 of 6 : SP\_2018\_NA0010\_131\_6\_20180307\_00006.jpg



Looking west at upstream side of sand dam on the southside of the Drop structure.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	6 (cont)	
LM End	1.14	Issue Type +	En	Location *		
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						
Sand dam may have been blown out due to high flows in 2017 but has been restored.						

LM Start	<b>1.14</b>	Rating **	U	Issue No.	<b>6 (cont)</b>
LM End	<b>1.14</b>	Issue Type +	En	Location *	

Photo 3 of 6 : SP\_2018\_NA0010\_131\_6\_20180307\_00007.jpg



Looking south at downstream side of structure.

Photo 4 of 6 : SP\_2018\_NA0010\_131\_6\_20180307\_00008.jpg



Looking at corrugated pipe on north end on upstream side of structure.

LM Start	<b>1.14</b>	Rating **	U	Issue No.	<b>6 (cont)</b>
LM End	<b>1.14</b>	Issue Type +	En	Location *	

Photo 5 of 6 : SP\_2018\_NA0010\_131\_6\_20180307\_00009.jpg



Looking at corrugated pipe on north 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		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	6 (cont)	
LM End	1.14	Issue Type +	En	Location *		
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						
Sand dam may have been blown out due to high flows in 2017 but has been restored.						

Photo 6 of 6 : SP\_2018\_NA0010\_131\_6\_20180307\_00010.jpg



Looking at corrugated pipe on south end on downstream side of structure.

LM Start	1.14	Rating **	M	Issue No.	10
LM End	1.14	Issue Type +	En	Location *	
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 corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 12-foot concrete distribution box on the landside (LS). 7-foot by 14-foot concrete outlet structure on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.14)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39877\_59385.jpg



Slide gate in CMP riser on WS shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	10 (cont)	
LM End	1.14	Issue Type +	En	Location *		
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 corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 12-foot concrete distribution box on the landside (LS). 7-foot by 14-foot concrete outlet structure on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.14)].						
FS Date: 3/27/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39877\_59384.jpg



Concrete box on WS toe.

LM Start	<b>1.14</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>1.14</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39877\_59389.jpg



Concrete box on WS toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	11 (cont)	
LM End	1.14	Issue Type +	En	Location *		
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 corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 12-foot concrete distribution box on the landside (LS). 7-foot by 14-foot concrete outlet structure on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.14)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39524\_59391.jpg



Pipe at outlet on WS toe.

LM Start	1.15	Rating **	M	Issue No.	7
LM End	1.15	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.045925 °	37.045925 °
				-120.429932 °	-120.429932 °
DWR ID	DWR_NA0010_13_f_2017_7				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/5/2018 - 4/5/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	3
LM End	1.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.032374 °	37.045428 °
				-120.441275 °	-120.427702 °
DWR ID	DWR_NA0010_14_s_2018_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	6
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.032374 °	37.045428 °
				-120.441275 °	-120.427702 °
DWR ID	DWR_NA0010_14_s_2018_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.25	Rating **	M	Issue No.	5
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.035841 °	37.035841 °
				-120.439795 °	-120.439795 °
DWR ID	DWR_NA0010_14_f_2017_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_132\_5\_20180307\_00002.jpg



Looking at the landside 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**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.15	Rating **	M	Issue No.	80	
LM End	1.15	Issue Type +	En	Location *		
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 corrugated metal gravity irrigation pipe through the levee, 10 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 7-foot concrete distribution box at the WS toe. Slots for wooden flashboards on the WS of the box. 7-foot by 9-foot concrete distribution box on the landside (LS), 20 feet from the toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.15)]. FS Date: 3/27/2014						

LM Start	<b>1.15</b>	Rating **	M	Issue No.	<b>80 (cont)</b>
LM End	<b>1.15</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39526\_59398.jpg



Slide gate in CMP riser and outlet/inlet structure visible in background at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39526\_59396.jpg



concrete inlet/outlet at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.15	Rating **	M	Issue No.	80 (cont)	
LM End	1.15	Issue Type +	En	Location *		
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 corrugated metal gravity irrigation pipe through the levee, 10 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 7-foot concrete distribution box at the WS toe. Slots for wooden flashboards on the WS of the box. 7-foot by 9-foot concrete distribution box on the landside (LS), 20 feet from the toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.15)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39526\_59397.jpg



Concrete distribution box visible next to power pole off LS toe.

LM Start	1.16	Rating **	M	Issue No.	7
LM End	1.16	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.044987 °	37.044987 °
				-120.429476 °	-120.429476 °
DWR ID	DWR_NA0010_14_s_2018_7				
Comment Code					
PI : Pipe					
Inspector Comment					
Remove pipes stored at waterwater berm.					

Photo 1 of 1 : SP\_2018\_NA0010\_132\_7\_20180411\_00010.jpg



Looking west at pipes on waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.24	Rating **	M	Issue No.	79
LM End	1.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.045343 °	37.045343 °
				-120.428007 °	-120.428007 °
DWR ID	DWR_NA0010_14_s_2015_79				
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 landside at this location.					

Photo 1 of 1 : SP\_2018\_NA0010\_132\_79\_20180307\_00003.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	1.26	Rating **	A/W	Issue No.	81
LM End	1.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.045383 °	37.045383 °
				-120.427754 °	-120.427754 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32828 DS_ID:19910 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the WS end. Pipe terminates into a concrete ditch on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.26)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32828\_59402.jpg



Concrete U-shaped headwall on Ws toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.26	Rating **	A/W	Issue No.	81 (cont)	
LM End	1.26	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.045383 °		37.045383 °
				-120.427754 °		-120.427754 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32828 DS_ID:19910 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the WS end. Pipe terminates into a concrete ditch on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.26)]. FS Date: 3/27/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_32828\_59401.jpg



slidegate in CMP riser on WS slope.

LM Start	<b>1.26</b>	Rating **	A/W	Issue No.	<b>81 (cont)</b>
LM End	<b>1.26</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32828\_59400.jpg



Inlet assumed to be within irrigation structure off LS toe.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/3/2018 - 4/3/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	9
LM End	2.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.996597 °	36.996599 °
				-120.410440 °	-120.373773 °
DWR ID	DWR_NA0010_15_s_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_133\_9\_20180420\_00015.jpg



Looking west at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	10
LM End	2.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.996597 °	36.996599 °
				-120.410440 °	-120.373773 °
DWR ID	DWR_NA0010_15_s_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_133\_10\_20180420\_00014.jpg



Looking east at typical view of waterward slope. (Spring 2018)

LM Start	0.01	Rating **	M	Issue No.	11
LM End	1.99	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.996547 °	36.996587 °
				-120.410220 °	-120.374503 °
DWR ID	DWR_NA0010_15_s_2012_11				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.37	Rating **	M	Issue No.	3
LM End	0.37	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996550 °	36.996550 °
				-120.403647 °	-120.403647 °
DWR ID	DWR_NA0010_15_f_2016_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified on the levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_133\_3\_20180307\_00001.jpg



Looking at typical rodent holes on levee crown.

LM Start	0.48	Rating **	A/W	Issue No.	12
LM End	0.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.996551 °	36.996551 °
				-120.401737 °	-120.401737 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32838 DS_ID:19911 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.48)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32838\_59448.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.48	Rating **	A/W	Issue No.	12 (cont)	
LM End	0.48	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.996551 °	36.996551 °	
				-120.401737 °	-120.401737 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32838						
DS_ID:19911						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.48)].						
FS Date: 3/27/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_32838\_59449.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>0.48</b>	Rating **	A/W	Issue No.	<b>12 (cont)</b>
LM End	<b>0.48</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32838\_59447.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	13
LM End	1.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown.					
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.01)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39527\_59452.jpg



Concrete headwall on WS toe.

LM Start	<b>1.00</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39527\_59453.jpg



Flapgate on concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	13 (cont)	
LM End	1.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.01)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39527\_59451.jpg



Concrete headwall on LS toe.

LM Start	1.51	Rating **	M	Issue No.	8
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.996560 °	36.996560 °
				-120.383133 °	-120.383133 °
DWR ID	DWR_NA0010_15_s_2018_8				
Comment Code					
GA : Garbage					
Inspector Comment					
Sofa on waterward slope.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	14	
LM End	1.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)]. FS Date: 3/27/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_32840\_59456.jpg



Concrete headwall on WS toe.

LM Start	<b>1.53</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>1.53</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32840\_59457.jpg



Flapgate on concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	14 (cont)	
LM End	1.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32840\_59455.jpg



Concrete headwall on LS toe. Note excessive vegetation buildup.

LM Start	1.58	Rating **	M	Issue No.	6
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996563 °	36.996578 °
				-120.381895 °	-120.374111 °
DWR ID	DWR_NA0010_15_f_2017_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_133\_6\_20180307\_00003.jpg



Representative picture on the crown.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/3/2018 - 4/3/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	1.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995357 °	36.995497 °
				-120.408923 °	-120.373623 °
DWR ID	DWR_NA0010_16_s_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_8\_20180420\_00012.jpg



Looking west at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995357 °	36.995497 °
				-120.408923 °	-120.373623 °
DWR ID	DWR_NA0010_16_s_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_9\_20180420\_00011.jpg



Looking east at typical view of waterward slope. (Spring 2018)

LM Start	0.01	Rating **	A/W	Issue No.	14
LM End	1.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995388 °	36.995507 °
				-120.408738 °	-120.373592 °
DWR ID	DWR_NA0010_16_s_2012_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control vegetation and regrade levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_14\_20180307\_00005.jpg



Looking at typical view of 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.93	Rating **	M	Issue No.	92
LM End	0.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995439 °	36.995439 °
				-120.392146 °	-120.392146 °
DWR ID	DWR_NA0010_16_s_2015_92				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_92\_20180307\_00006.jpg



Looking at several rodent holes on landward slope.

LM Start	1.09	Rating **	M	Issue No.	3
LM End	1.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995433 °	36.995433 °
				-120.389190 °	-120.389190 °
DWR ID	DWR_NA0010_16_f_2016_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified on the levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_3\_20180307\_00003.jpg



Looking at several rodent holes and moles holes on 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	93
LM End	1.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Two concrete cutoff walls. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.46)]. FS Date: 4/1/2014 8:12:00 AM					

Photo 1 of 3 : UCIP\_SP\_2018\_39529\_59681.jpg



Concrete headwall on WS toe with channel.

LM Start	<b>1.44</b>	Rating **	M	Issue No.	<b>93 (cont)</b>
LM End	<b>1.44</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39529\_59680.jpg



Flapgate on headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	93 (cont)	
LM End	1.44	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Two concrete cutoff walls. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.46)]. FS Date: 4/1/2014 8:12:00 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_39529\_59682.jpg



Concrete headwall on LS toe covered in vegetation/tumble weeds.

LM Start	1.46	Rating **	A/W	Issue No.	7
LM End	1.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995466 °	36.995471 °
				-120.382574 °	-120.380111 °
DWR ID	DWR_NA0010_16_f_2017_7				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_7\_20180411\_00010.jpg



Looking east at typical view of levee crown. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	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 landside slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_134\_2\_20180307\_00001.jpg



Looking at large rodent holes on landward slope.

LM Start	<b>1.77</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>1.77</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_134\_2\_20180307\_00002.jpg



Looking southwest at several rodent holes on landward slope.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/5/2018 - 4/5/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	16.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976461 °	36.774440 °
				-120.374672 °	-120.283749 °
DWR ID	DWR_NA0010_17_s_2018_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_13\_20180411\_00037.jpg



Looking upstream (south) at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	14
LM End	16.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976462 °	36.774440 °
				-120.374672 °	-120.283749 °
DWR ID	DWR_NA0010_17_s_2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_14\_20180411\_00038.jpg



Looking upstream (south) at typical view of waterward slope. (Spring 2018)

LM Start	0.64	Rating **	M	Issue No.	18
LM End	0.64	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.976181 °	36.976181 °
				-120.363241 °	-120.363241 °
DWR ID	DWR_NA0010_17_f_2017_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes in this area.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_18\_20180307\_00007.jpg



Looking at the crown.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	25
LM End	2.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown.					
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.58)].					
FS Date: 4/1/2014					

LM Start	<b>2.57</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>2.57</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39531\_59710.jpg



Concrete headwall at channel on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39531\_59711.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	25 (cont)	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.58)].						
FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39531\_59709.jpg



Concrete headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.68	Rating **	A/W	Issue No.	26
LM End	4.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.923426 °	36.923426 °
				-120.336559 °	-120.336559 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32998  
 DS\_ID:19921  
 EP\_NO: N/A  
 Repair Type: No Action Needed  
 Crossing Status: Found  
 UCIP Comments:  
 FIELD\_STRUCT\_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. 36-inch weir structure on the WS. Combination flap gate and slide gate on the WS toe. Steel walkway to slide gate actuator on the WS shoulder. (Plans to construct a 3.281-foot-high weir and attach a cable operated flap valve to an existing 48-inch by 60-inch culvert authorized under Permit No. 13587, 1983 - Clark Brothers Farming, Arroyo Ranch). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.69)].  
 FS Date: 4/1/2014

LM Start	<b>4.68</b>	Rating **	A/W	Issue No.	<b>26 (cont)</b>
LM End	<b>4.68</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_32998\_59714.jpg



Steel walkway to slide gate actuator on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2018\_32998\_59715.jpg



Combination flapgate/slidegate, concrete headwall, and metal screen at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.68	Rating **	A/W	Issue No.	26 (cont)	
LM End	4.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.923426 °	36.923426 °	
				-120.336559 °	-120.336559 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32998 DS_ID:19921 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. 36-inch weir structure on the WS. Combination flap gate and slide gate on the WS toe. Steel walkway to slide gate actuator on the WS shoulder. (Plans to construct a 3.281-foot-high weir and attach a cable operated flap valve to an existing 48-inch by 60-inch culvert authorized under Permit No. 13587, 1983 - Clark Brothers Farming, Arroyo Ranch). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.69)]. FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32998\_59713.jpg



Concrete headwall on LS toe.

LM Start	4.74	Rating **	M	Issue No.	22
LM End	4.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.922526 °	36.922526 °
				-120.336227 °	-120.336227 °
DWR ID	DWR_NA0010_17_f_2017_22				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_22\_20180307\_00009.jpg



Looking southeast at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	5.75	Rating **	M	Issue No.	8
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.908605 °	36.906507 °
				-120.331112 °	-120.330353 °
DWR ID	DWR_NA0010_17_s_2012_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes noted on landside slope.					

LM Start	<b>5.75</b>	Rating **	M	Issue No.	<b>8 (cont)</b>
LM End	<b>5.90</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_135\_8\_20180307\_00005.jpg



Looking at several rodent holes on landward slope. (Spring 2015)

Photo 2 of 2 : SP\_2018\_NA0010\_135\_8\_20180307\_00006.jpg



Looking at several rodent holes on landside slope. (Fall 2014)

LM Start	6.51	Rating **	M	Issue No.	4
LM End	6.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.898093 °	36.895300 °
				-120.326689 °	-120.325322 °
DWR ID	DWR_NA0010_17_s_2012_4				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this reach.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_4\_20180307\_00003.jpg



Looking at typical view of 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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	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			36.887852 °	36.886388 °
				-120.321668 °	-120.320950 °
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					
Several rodent holes identified within this reach.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_5\_20180307\_00004.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	7.41	Rating **	M	Issue No.	23
LM End	7.41	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.885998 °	36.885998 °
				-120.320759 °	-120.320759 °
DWR ID	DWR_NA0010_17_f_2017_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_23\_20180307\_00010.jpg



Looking southwest at the crown.

LM Start	8.15	Rating **	M	Issue No.	24
LM End	8.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.875525 °	36.875525 °
				-120.317788 °	-120.317788 °
DWR ID	DWR_NA0010_17_f_2017_24				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on landside and crown of levee. Rodent holes have caused some erosion on the landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_24\_20180307\_00011.jpg



Looking east at the landside slope.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.37	Rating **	A/W	Issue No.	27
LM End	8.37	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.872358 °	36.872358 °
				-120.317170 °	-120.317170 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32999					
DS_ID:19922					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.38)].					
FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32999\_59718.jpg



Concrete headwall and channel on WS toe.

LM Start	<b>8.37</b>	Rating **	A/W	Issue No.	<b>27 (cont)</b>
LM End	<b>8.37</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32999\_59720.jpg



Flapgate on concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.37	Rating **	A/W	Issue No.	27 (cont)	
LM End	8.37	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.872358 °	36.872358 °	
				-120.317170 °	-120.317170 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32999						
DS_ID:19922						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.38)].						
FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32999\_59719.jpg



Concrete headwall and channel on LS toe.

LM Start	9.88	Rating **	M	Issue No.	28	
LM End	9.88	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15 feet below the crown. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.89)]. FS Date: 4/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39532\_59723.jpg



Concrete headwall and channel on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	9.88	Rating **	M	Issue No.	28 (cont)	
LM End	9.88	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15 feet below the crown.						
Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.89)].						
FS Date: 4/1/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39532\_59724.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>9.88</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>9.88</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39532\_59722.jpg



Concrete headwall and channel on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	12.28	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			36.821368 °	36.820000 °
				-120.300283 °	-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					
Several rodent holes identified within this reach.					

LM Start	<b>12.28</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>12.38</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_135\_3\_20180307\_00001.jpg



Looking at typical view of rodent holes on landward slope. Fall 2015

Photo 2 of 2 : SP\_2018\_NA0010\_135\_3\_20180307\_00002.jpg



Looking at several rodent holes on landward slope. Spring 2015

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	13.29	Rating **	M	Issue No.	29	
LM End	13.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)]. FS Date: 4/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39533\_59727.jpg



Concrete headwall on WS toe.

LM Start	<b>13.29</b>	Rating **	M	Issue No.	<b>29 (cont)</b>
LM End	<b>13.29</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39533\_59726.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	13.29	Rating **	M	Issue No.	29 (cont)	
LM End	13.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)].						
FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39533\_59725.jpg



Concrete headwall on LS toe. Some vegetation buildup.

LM Start	14.38	Rating **	M	Issue No.	30
LM End	14.38	Issue Type +	En	Location *	
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: Natural gas pipeline of an unknown size or material through the levee, at an unknown depth. Gas line markers on both shoulders. FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_41406\_71490.jpg



Gasline marker on WS slope..

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	14.38	Rating **	M	Issue No.	30 (cont)
LM End	14.38	Issue Type +	En	Location *	
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: Natural gas pipeline of an unknown size or material through the levee, at an unknown depth. Gas line markers on both shoulders. FS Date: 4/1/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_41406\_71489.jpg



Gasline marker on LS shoulder.

LM Start	<b>14.38</b>	Rating **	M	Issue No.	<b>30 (cont)</b>
LM End	<b>14.38</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_41406\_71488.jpg



Gasline markers visible along right side of photo.

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

**\*\* Rating**  
 A : Acceptable  
 M : Minimally Acceptable  
 U : Unacceptable  
 N : Not Inspected/Rated  
 C : Corrected  
 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	14.39	Rating **	M	Issue No.	31
LM End	14.39	Issue Type +	En	Location *	
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 coated steel natural gas pipeline through the levee, approximately 60 feet below the crown. Gas line markers are visible on the waterside (WS) and the landside (LS). (30-inch horizontal directional bore (HDD) authorized under Permit No. 18568, 2010 - Gill Ranch Storage, LLC). FS Date: 7/20/2016					

Photo 1 of 3 : UCIP\_SP\_2018\_50067\_59742.jpg



Gasline marker and concrete sump off LS toe.

LM Start	<b>14.39</b>	Rating **	M	Issue No.	<b>31 (cont)</b>
LM End	<b>14.39</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_50067\_59741.jpg



Gasline marker visible in channel off WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	14.39	Rating **	M	Issue No.	31 (cont)	
LM End	14.39	Issue Type +	En	Location *		
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 coated steel natural gas pipeline through the levee, approximately 60 feet below the crown. Gas line markers are visible on the waterside (WS) and the landside (LS). (30-inch horizontal directional bore (HDD) authorized under Permit No. 18568, 2010 - Gill Ranch Storage, LLC). FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50067\_75506.jpg



View of WS.

LM Start	14.69	Rating **	M	Issue No.	32
LM End	14.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.69)].					
FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39535\_59745.jpg



Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	14.69	Rating **	M	Issue No.	32 (cont)	
LM End	14.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.69)].						
FS Date: 4/1/2014						

LM Start	<b>14.69</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>14.69</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39535\_59747.jpg



Flapgate on Concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39535\_59746.jpg



Concrete headwall at channel on LS toe. Heavy vegetation buildup.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/17/2018 - 4/17/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	19
LM End	15.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.974133 °	36.773493 °
				-120.363257 °	-120.285222 °
DWR ID	DWR_NA0010_18_s_2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	18
LM End	15.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.974133 °	36.773493 °
				-120.363256 °	-120.285221 °
DWR ID	DWR_NA0010_18_s_2018_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.58	Rating **	U	Issue No.	20
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967678 °	36.967678 °
				-120.357660 °	-120.357660 °
DWR ID	DWR_NA0010_18_s_2018_20				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage (rubber tires) stockpile on waterward slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_20\_20180420\_00022.jpg



Looking east at garbage (rubble tires) on waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

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 holes identified on landside slope and on the levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_7\_20180307\_00003.jpg



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

LM Start	1.69	Rating **	M	Issue No.	21
LM End	1.69	Issue Type +	En	Location *	
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 irrigation discharge pipe through the levee, 4.3 feet below the crown. Electrical conduit of an unknown size or material through the levee, 4.3 feet below the crown. Siphon breaker on the landside (LS) shoulder. 36-inch concrete standpipe on the LS berm. Inlet facility on the waterside (WS) bank consisting of a pump, a 42-inch concrete standpipe, and a 20-inch concrete channel with an intake pipe and a cutoff wall. (Plans to install a pump and outlet pipe at two locations on the left bank levee of the Chowchilla Bypass authorized under Permit No. 6603, 1969 - Raymond N. Costales). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/10/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39503\_66660.jpg



Overview of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.69	Rating **	M	Issue No.	21 (cont)	
LM End	1.69	Issue Type +	En	Location *		
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 irrigation discharge pipe through the levee, 4.3 feet below the crown. Electrical conduit of an unknown size or material through the levee, 4.3 feet below the crown. Siphon breaker on the landside (LS) shoulder. 36-inch concrete standpipe on the LS berm. Inlet facility on the waterside (WS) bank consisting of a pump, a 42-inch concrete standpipe, and a 20-inch concrete channel with an intake pipe and a cutoff wall. (Plans to install a pump and outlet pipe at two locations on the left bank levee of the Chowchilla Bypass authorized under Permit No. 6603, 1969 - Raymond N. Costales). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/10/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39503\_66657.jpg



View of waterward side.

LM Start	<b>1.69</b>	Rating **	M	Issue No.	<b>21 (cont)</b>
LM End	<b>1.69</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39503\_66658.jpg



Pump system located on waterward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.25	Rating **	M	Issue No.	22	
LM End	2.25	Issue Type +	En	Location *		
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 irrigation discharge pipe and electrical conduit through the levee, 3.7 feet below the crown. Siphon breaker on the landside (LS) shoulder. 36-inch concrete standpipe on the LS berm. Inlet facility on the riverbank, consisting of a pump, a 42-inch concrete standpipe, and a 20-inch concrete channel with an intake pipe and a cutoff wall. (Plans to install a pump and outlet pipe at two locations on the left bank levee of the Chowchilla Bypass authorized under Permit No. 6603, 1969 - Raymond N. Costales). [Additional Reference(s): DWR Levee Log, 2002].						
FS Date: 7/20/2016						

LM Start	<b>2.25</b>	Rating **	M	Issue No.	<b>22 (cont)</b>
LM End	<b>2.25</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49968\_60558.jpg



Overview of LS--site modified.

Photo 2 of 3 : UCIP\_SP\_2018\_49968\_60559.jpg



View of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.25	Rating **	M	Issue No.	22 (cont)	
LM End	2.25	Issue Type +	En	Location *		
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 irrigation discharge pipe and electrical conduit through the levee, 3.7 feet below the crown. Siphon breaker on the landside (LS) shoulder. 36-inch concrete standpipe on the LS berm. Inlet facility on the riverbank, consisting of a pump, a 42-inch concrete standpipe, and a 20-inch concrete channel with an intake pipe and a cutoff wall. (Plans to install a pump and outlet pipe at two locations on the left bank levee of the Chowchilla Bypass authorized under Permit No. 6603, 1969 - Raymond N. Costales). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49968\_60560.jpg



View of WS.

LM Start	2.25	Rating **	U	Issue No.	8
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.945563 °	36.945563 °
				-120.347121 °	-120.347121 °
DWR ID	DWR_NA0010_18_f_2015_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
One large rodent hole and other rodent holes within this area.					

Photo 1 of 2 : SP\_2018\_NA0010\_137\_8\_20180307\_00004.jpg



Looking at large rodent hole on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.25	Rating **	U	Issue No.	8 (cont)	
LM End	2.25	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			36.945563 °		36.945563 °
				-120.347121 °		-120.347121 °
DWR ID	DWR_NA0010_18_f_2015_8					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
One large rodent hole and other rodent holes within this area.						

Photo 2 of 2 : SP\_2018\_NA0010\_137\_8\_20180307\_00005.jpg



Looking at close-up view of large rodent hole on landward slope.

LM Start	3.68	Rating **	M	Issue No.	17
LM End	3.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.925683 °	36.925683 °
				-120.339692 °	-120.339692 °
DWR ID	DWR_NA0010_18_s_2018_17				
Comment Code					
PI : Pipe					
Inspector Comment					
Remove Irrigation pipes stored in channel.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_17\_20180420\_00023.jpg



Looking east at irrigation pipe stored in channel. (Spring 2018)

LM Start	4.69	Rating **	M	Issue No.	16
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.911613 °	36.911613 °
				-120.334542 °	-120.334542 °
DWR ID	DWR_NA0010_18_f_2017_16				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on landside slope and crown.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	5.89	Rating **	U	Issue No.	1
LM End	5.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.895175 °	36.895175 °
				-120.327632 °	-120.327632 °
DWR ID	DWR_NA0010_18_s_2015_1				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes noted on landside slope and berm within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_1\_20180307\_00001.jpg



Looking at the landside slope.

LM Start	5.99	Rating **	U	Issue No.	15
LM End	5.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.893924 °	36.893924 °
				-120.327020 °	-120.327020 °
DWR ID	DWR_NA0010_18_f_2017_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple large rodent holes at the landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_15\_20180307\_00008.jpg



Looking west at the landside slope.

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

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	7.39	Rating **	U	Issue No.	14
LM End	7.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.874479 °	36.872503 °
				-120.319831 °	-120.319438 °
DWR ID	DWR_NA0010_18_f _ 2017_14				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted along landside slope in this area.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_14\_20180307\_00007.jpg



Looking south at the landside slope.

LM Start	7.54	Rating **	M	Issue No.	23
LM End	7.54	Issue Type +	En	Location *	
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 reinforced concrete gravity irrigation pipe through the levee, 19 feet below the crown. Gate structure on the waterside (WS) shoulder. Pipe section on the WS is corrugated metal. Pipe section on the landside (LS) is reinforced concrete. (Plans to install a 42-inch gravity-flow concrete pipeline through the left bank levee of the Eastside Bypass to divert bypass waters for irrigation purposes authorized under Permit No. 13548, 1983 - New Stone Water District). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/10/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36843\_67202.jpg



Overview of levee crown at crossing--slide gate inside concrete box located on waterward shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	7.54	Rating **	M	Issue No.	23 (cont)
LM End	7.54	Issue Type +	En	Location *	
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 reinforced concrete gravity irrigation pipe through the levee, 19 feet below the crown. Gate structure on the waterside (WS) shoulder. Pipe section on the WS is corrugated metal. Pipe section on the landside (LS) is reinforced concrete. (Plans to install a 42-inch gravity-flow concrete pipeline through the left bank levee of the Eastside Bypass to divert bypass waters for irrigation purposes authorized under Permit No. 13548, 1983 - New Stone Water District). [Additional Reference(s): DWR Levee Log, 2002].  
FS Date: 4/10/2014

LM Start	<b>7.54</b>	Rating **	M	Issue No.	<b>23 (cont)</b>
LM End	<b>7.54</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36843\_67205.jpg



Pipe section distorted on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36843\_67200.jpg



CMP section visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	8.67	Rating **	U	Issue No.	13
LM End	8.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.856115 °	36.856115 °
				-120.316595 °	-120.316595 °
DWR ID	DWR_NA0010_18_f_2017_13				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_13\_20180307\_00006.jpg



Looking south at the landside slope.

LM Start	13.59	Rating **	M	Issue No.	24
LM End	13.59	Issue Type +	En	Location *	
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 natural gas pipeline of an unknown material through the levee. Pipeline extends underneath the channel.					
[Additional Reference(s): DWR Levee Log, 2002].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39505\_67226.jpg



Markers visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	24 (cont)	
LM End	13.59	Issue Type +	En	Location *		
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 natural gas pipeline of an unknown material through the levee. Pipeline extends underneath the channel.						
[Additional Reference(s): DWR Levee Log, 2002].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39505\_67225.jpg



View of levee crown at crossing.

LM Start	<b>13.59</b>	Rating **	M	Issue No.	<b>24 (cont)</b>
LM End	<b>13.59</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39505\_67224.jpg



Ramp visible on landward side.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	19
LM End	5.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.205968 °	37.272489 °
				-120.697054 °	-120.741971 °
DWR ID	DWR_NA0010_22A_s _ 2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	20
LM End	5.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.205968 °	37.272489 °
				-120.697054 °	-120.741971 °
DWR ID	DWR_NA0010_22A_s _ 2018_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.10	Rating **	M	Issue No.	12
LM End	0.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.206972 °	37.216123 °
				-120.696245 °	-120.697722 °
DWR ID	DWR_NA0010_22A_s _ 2017_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.10	Rating **	U	Issue No.	18
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.207017 °	37.207017 °
				-120.696261 °	-120.696261 °
DWR ID	DWR_NA0010_22A_f_ 2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Sinkhole on waterside at pipe location.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_18\_20180307\_00016.jpg



Looking west at waterside sinkhole.

LM Start	<b>0.10</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>0.10</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_138\_18\_20180307\_00017.jpg



Looking north at the waterside 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.10	Rating **	M	Issue No.	260	
LM End	0.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 14.8 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.10)]. FS Date: 7/19/2016						

LM Start	<b>0.10</b>	Rating **	M	Issue No.	<b>260 (cont)</b>
LM End	<b>0.10</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49959\_61060.jpg



PVC pipes sticking up out of channel likely indicate pipe location on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_49959\_61061.jpg



Concrete headwall at toe of LS slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.10	Rating **	M	Issue No.	260 (cont)	
LM End	0.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 gravity drainage pipe through the levee, 14.8 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.10)].						
FS Date: 7/19/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49959\_61059.jpg



Concrete headwall at LS toe.

LM Start	0.53	Rating **	U	Issue No.	21
LM End	0.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.213006 °	37.217593 °
				-120.698019 °	-120.697400 °
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 landside slope.					

Photo 1 of 3 : SP\_2018\_NA0010\_138\_21\_20180307\_00018.jpg



Looking northwest at the landside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.53	Rating **	U	Issue No.	21 (cont)	
LM End	0.85	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.213006 °		37.217593 °
				-120.698019 °		-120.697400 °
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 landside slope.						

Photo 2 of 3 : SP\_2018\_NA0010\_138\_21\_20180307\_00019.jpg



Looking at dense vegetation on landward slope. Fall 2015

LM Start	<b>0.53</b>	Rating **	U	Issue No.	<b>21 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2018\_NA0010\_138\_21\_20180307\_00020.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 waterside shouder without board permit.					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_23\_20180307\_00021.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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.03	Rating **	M	Issue No.	10
LM End	5.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.220040 °	37.267962 °
				-120.698181 °	-120.736909 °
DWR ID	DWR_NA0010_22A_s_2018_10				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Several pot holes and depressions along levee crown.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_10\_20180411\_00035.jpg



Looking upstream at rutting on levee crown within this section. (Spring 2018)

LM Start	<b>1.03</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>5.09</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2018\_NA0010\_138\_10\_20180307\_00011.jpg



Looking downstream at rutting and potholes on levee crown. (Fall 2017)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	<b>1.57</b>	Rating **	M	Issue No.	<b>261</b>
LM End	<b>1.57</b>	Issue Type +	En	Location *	
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 corrugated metal gravity irrigation pipe through the levee, 7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.57)]. FS Date: 4/15/2014					

LM Start	<b>1.57</b>	Rating **	M	Issue No.	<b>261 (cont)</b>
LM End	<b>1.57</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33733\_61030.jpg



Pipe and CMP riser with slide gate visible on WS slope.

Photo 2 of 3 : UCIP\_SP\_2018\_33733\_61029.jpg



Inside CMP riser on WS shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.57	Rating **	M	Issue No.	261 (cont)	
LM End	1.57	Issue Type +	En	Location *		
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 burried at LS toe. Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch corrugated metal gravity irrigation pipe through the levee, 7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.57)]. FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33733\_61028.jpg



Buried concrete headwall on LS toe.

LM Start	1.73	Rating **	M	Issue No.	16
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.229779 °	37.229779 °
				-120.701797 °	-120.701797 °
DWR ID	DWR_NA0010_22A_s_2018_16				
Comment Code					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.65	Rating **	U	Issue No.	7
LM End	2.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.242595 °	37.242595 °
				-120.706470 °	-120.706470 °
DWR ID	DWR_NA0010_22A_s_2017_7				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion cutting into waterside shoulder.					

LM Start	<b>2.65</b>	Rating **	U	Issue No.	<b>7 (cont)</b>
LM End	<b>2.65</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2018\_NA0010\_138\_7\_20180307\_00005.jpg



Looking northwest at the waterside shoulder.

Photo 2 of 2 : SP\_2018\_NA0010\_138\_7\_20180307\_00006.jpg



Looking downstream at erosion on waterward shoulder and slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.71	Rating **	M	Issue No.	262
LM End	2.71	Issue Type +	En	Location *	
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 corrugated metal irrigation siphon pipe					
through the levee, 7.5 feet below the crown. Slide gate in a 36-inch					
corrugated metal pipe (CMP) riser on the waterside (WS) slope.					
Concrete U-shaped headwall on the landside (LS) end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 2.72)].					
FS Date: 4/15/2014					

LM Start	<b>2.71</b>	Rating **	M	Issue No.	<b>262 (cont)</b>
LM End	<b>2.71</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33732\_61026.jpg



Slidegate in CMP riser on WS shoulder. (Note: actuator does not work).

Photo 2 of 3 : UCIP\_SP\_2018\_33732\_61024.jpg



Inside CMP riser on WS shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.71	Rating **	M	Issue No.	262 (cont)	
LM End	2.71	Issue Type +	En	Location *		
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 corrugated metal irrigation siphon pipe through the levee, 7.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.72)]. FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33732\_61025.jpg



Pipe visible on WS toe.

LM Start	2.86	Rating **	M	Issue No.	15
LM End	3.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.245431 °	37.247343 °
				-120.707990 °	-120.710362 °
DWR ID	DWR_NA0010_22A_s_2014_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on landside slope and toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_15\_20180307\_00014.jpg



Looking at several rodent holes on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.64	Rating **	U	Issue No.	9
LM End	3.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.253362 °	37.253862 °
				-120.717873 °	-120.718507 °
DWR ID	DWR_NA0010_22A_f_2016_9				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions or levee damage caused by animal traffice within this section.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_9\_20180307\_00009.jpg



Looking southeast at the waterside slope.

LM Start	<b>3.64</b>	Rating **	U	Issue No.	<b>9 (cont)</b>
LM End	<b>3.69</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_138\_9\_20180307\_00010.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	3.79	Rating **	M	Issue No.	11
LM End	3.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.254923 °	37.254923 °
				-120.719769 °	-120.719769 °
DWR ID	DWR_NA0010_22A_s_2014_11				
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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.80	Rating **	M	Issue No.	259	
LM End	3.80	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.255067 °		37.255067 °
				-120.719910 °		-120.719910 °
DWR ID	DWR_NA0010_22A_s_2015_259					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Dead tree stump on waterside slope.						

Photo 1 of 1 : SP\_2018\_NA0010\_138\_259\_20180307\_00022.jpg



Looking east at dead stump on waterward slope.

LM Start	3.81	Rating **	M	Issue No.	13
LM End	3.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.255199°	37.255199°
				-120.720094°	-120.720094°
DWR ID	DWR_NA0010_22A_f_2017_13				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_13\_20180307\_00012.jpg



Looking northeast at the waterside slope.

LM Start	3.82	Rating **	A/W	Issue No.	14
LM End	3.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.255239 °	37.255239 °
				-120.720142 °	-120.720142 °
DWR ID	DWR_NA0010_22A_f_2017_14				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_14\_20180307\_00013.jpg



Looking northeast at the waterside slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	4.87	Rating **	A/W	Issue No.	8
LM End	4.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.265813 °	37.265813 °
				-120.733748 °	-120.733748 °
DWR ID	DWR_NA0010_22A_f_2016_8				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Levee damage caused by animal traffic. Several site repaired with broken concrete. But other sites still need repairing.					

LM Start	<b>4.87</b>	Rating **	A/W	Issue No.	<b>8 (cont)</b>
LM End	<b>4.87</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2018\_NA0010\_138\_8\_20180411\_00036.jpg



Looking downstream at repaired site with concrete rubble on waterward slope and shoulder. (Spring 2018)

Photo 2 of 4 : SP\_2018\_NA0010\_138\_8\_20180307\_00008.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	<b>4.87</b>	Rating **	A/W	Issue No.	<b>8 (cont)</b>
LM End	<b>4.87</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_NA0010\_138\_8\_20180411\_00037.jpg



Looking downstream at repaired site with concrete rubble on waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	4.87	Rating **	A/W	Issue No.	8 (cont)	
LM End	4.87	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.265813 °		37.265813 °
				-120.733748 °		-120.733748 °
DWR ID	DWR_NA0010_22A_f_2016_8					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Levee damage caused by animal traffic. Several site repaired with broken concrete. But other sites still need repairing.						

Photo 4 of 4 : SP\_2018\_NA0010\_138\_8\_20180307\_00007.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	5.05	Rating **	M	Issue No.	4
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 1 of 2 : SP\_2018\_NA0010\_138\_4\_20180307\_00001.jpg



Looking southeast at livestock erosion on waterward toe.

LM Start	<b>5.05</b>	Rating **	M	Issue No.	<b>4 (cont)</b>
LM End	<b>5.05</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_138\_4\_20180307\_00002.jpg



Looking southeast at livestock erosion on waterward toe.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	5.12	Rating **	M	Issue No.	6
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.268236 °	37.269124 °
				-120.737210 °	-120.738200 °
DWR ID	DWR_NA0010_22A_s_2012_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by livestock on waterside toe.					

LM Start	5.12	Rating **	M	Issue No.	6 (cont)
LM End	5.20	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2018\_NA0010\_138\_6\_20180307\_00003.jpg



Looking southeast at livestock erosion on waterward toe.

Photo 2 of 2 : SP\_2018\_NA0010\_138\_6\_20180307\_00004.jpg



Looking northwest at livestock erosion along waterside slope and toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	5.48	Rating **	M	Issue No.	263
LM End	5.48	Issue Type +	En	Location *	
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 corrugated metal irrigation siphon pipe through the levee, 10 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. WS end capped with a 0.25-inch steel plate. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.48)]. FS Date: 4/15/2014					

LM Start	<b>5.48</b>	Rating **	M	Issue No.	<b>263 (cont)</b>
LM End	<b>5.48</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39536\_61022.jpg



Slidegate inside riser on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2018\_39536\_61021.jpg



Inside riser on WS shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	5.48	Rating **	M	Issue No.	263 (cont)	
LM End	5.48	Issue Type +	En	Location *		
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 corrugated metal irrigation siphon pipe through the levee, 10 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. WS end capped with a 0.25-inch steel plate. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.48)]. FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39536\_61020.jpg



Buried headwall on LS toe.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/5/2018 - 4/5/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	30
LM End	10.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774437 °	36.814780 °
				-120.283750 °	-120.168792 °
DWR ID	DWR_NA0010_23_s_2018_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_30\_20180411\_00055.jpg



Looking upstream at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	33
LM End	10.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774437 °	36.814783 °
				-120.283750 °	-120.168789 °
DWR ID	DWR_NA0010_23_s_2018_33				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_33\_20180411\_00056.jpg



Looking upstream at typical view of waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.21	Rating **	M	Issue No.	39
LM End	0.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. (Plans to construct a new discharge structure and to rehabilitate one existing diversion structure to return intercepted seepage to the San Joaquin River authorized under Permit No. 13085, 1981 - Diener, Dry River Farms). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.21)].					
FS Date: 4/3/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39537\_59860.jpg



Concrete headwall on WS toe at channel.

LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>39 (cont)</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39537\_59859.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.21	Rating **	M	Issue No.	39 (cont)	
LM End	0.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. (Plans to construct a new discharge structure and to rehabilitate one existing diversion structure to return intercepted seepage to the San Joaquin River authorized under Permit No. 13085, 1981 - Diener, Dry River Farms). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.21)].						
FS Date: 4/3/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39537\_59861.jpg



Concrete headwall at LS toe. Excess vegetation buildup at inlet.

LM Start	0.21	Rating **	A/W	Issue No.	20
LM End	0.73	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			36.772690 °	36.774700 °
				-120.280550 °	-120.272720 °
DWR ID	DWR_NA0010_23_f_2017_20				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:23					
Site Designation:219-100					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.07	Rating **	U	Issue No.	27
LM End	1.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.772726 °	36.772884 °
				-120.267276 °	-120.265736 °
DWR ID	DWR_NA0010_23_f_2017_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
LMA mowed at toe of levee, but due to dense vegetation unable to see landside slope with limited visibility of toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_27\_20180307\_00023.jpg



Looking east at landside slope.

LM Start	1.09	Rating **	U	Issue No.	26
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.772743 °	36.772743 °
				-120.266800 °	-120.266800 °
DWR ID	DWR_NA0010_23_f_2017_26				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Need to repair large rodent hole					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_26\_20180307\_00022.jpg



Looking at the landside slope.

LM Start	1.21	Rating **	M	Issue No.	6
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.772973 °	36.772973 °
				-120.264768 °	-120.264768 °
DWR ID	DWR_NA0010_23_s_2013_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.52	Rating **	M	Issue No.	28	
LM End	1.52	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.772066 °		36.772066 °
				-120.259545 °		-120.259545 °
DWR ID	DWR_NA0010_23_f_2017_28					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Downed tree limbs on landside slope.						

Photo 1 of 1 : SP\_2018\_NA0010\_139\_28\_20180307\_00024.jpg



Looking north at landside slope.

LM Start	1.53	Rating **	U	Issue No.	29
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.772041 °	36.772041 °
				-120.259549 °	-120.259549 °
DWR ID	DWR_NA0010_23_f_2014_29				
Comment Code					
DT : Ditch					
Inspector Comment					
Trench at landside toe. Trench is ten to twelve inches wide and twenty feet long.					

Photo 1 of 3 : SP\_2018\_NA0010\_139\_29\_20180307\_00025.jpg



Looking southeast at trench at landward toe. (Spring 2015)

LM Start	<b>1.53</b>	Rating **	U	Issue No.	<b>29 (cont)</b>
LM End	<b>1.53</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP\_2018\_NA0010\_139\_29\_20180307\_00026.jpg



Looking southeast at trench 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.53	Rating **	U	Issue No.	29 (cont)	
LM End	1.53	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.772041 °		36.772041 °
				-120.259549 °		-120.259549 °
DWR ID	DWR_NA0010_23_f_2014_29					
Comment Code						
DT : Ditch						
Inspector Comment						
Trench at landside toe. Trench is ten to twelve inches wide and twenty feet long.						

Photo 3 of 3 : SP\_2018\_NA0010\_139\_29\_20180307\_00027.jpg



Looking northwest at trench at landward toe.

LM Start	1.54	Rating **	U	Issue No.	24
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 landside berm.					

Photo 1 of 3 : SP\_2018\_NA0010\_139\_24\_20180307\_00018.jpg



Looking east at large pot hole on landward berm.

LM Start	<b>1.54</b>	Rating **	U	Issue No.	<b>24 (cont)</b>
LM End	<b>1.54</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP\_2018\_NA0010\_139\_24\_20180307\_00019.jpg



Looking southeast at large pot hole on landward berm.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	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 landside berm.						

Photo 3 of 3 : SP\_2018\_NA0010\_139\_24\_20180307\_00020.jpg



Looking southeast at trench on landward berm.

LM Start	1.63	Rating **	M	Issue No.	40
LM End	1.63	Issue Type +	En	Location *	
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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/3/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39538\_59855.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.63	Rating **	M	Issue No.	40 (cont)	
LM End	1.63	Issue Type +	En	Location *		
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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/3/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39538\_59857.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>1.63</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>1.63</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39538\_59856.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.87	Rating **	M	Issue No.	22
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.772373 °	36.772373 °
				-120.253843 °	-120.253843 °
DWR ID	DWR_NA0010_23_f_2016_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.91	Rating **	U	Issue No.	1
LM End	1.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.772943 °	36.772943 °
				-120.253511 °	-120.253511 °
DWR ID	DWR_NA0010_23_s_2015_1				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_1\_20180307\_00001.jpg



Looking east at waterside slope.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.93	Rating **	A/W	Issue No.	21	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			36.773160 °		°
				-120.253390 °		°
DWR ID	DWR_NA0010_23_f_2017_21					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:24						
Site Designation:219-FOC-6						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	2.12	Rating **	M	Issue No.	16
LM End	2.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.775507 °	36.775507 °
				-120.251672 °	-120.251670 °
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, & 2.47					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_16\_20180307\_00017.jpg



Looking west at one of several slope damaged cause by vehicle traffice.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	<b>2.21</b>	Rating **	M	Issue No.	<b>35</b>
LM End	<b>2.21</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability				
DWR ID	DWR_NA0010_23_s_2018_35				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	<b>2.37</b>	Rating **	M	Issue No.	<b>36</b>
LM End	<b>2.37</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability				
DWR ID	DWR_NA0010_23_s_2018_36				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	<b>2.41</b>	Rating **	M	Issue No.	<b>37</b>
LM End	<b>2.41</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability				
DWR ID	DWR_NA0010_23_s_2018_37				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	2.47	Rating **	M	Issue No.	38
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability				°
					°
DWR ID	DWR_NA0010_23_s_2018_38				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	2.48	Rating **	M	Issue No.	31
LM End	2.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.773596 °	36.773596 °
				-120.246523 °	-120.246523 °
DWR ID	DWR_NA0010_23_f_2017_31				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

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 landside toe.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	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 landside toe.					

No Photos

LM Start	3.45	Rating **	M	Issue No.	9
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.776537 °	36.776537 °
				-120.234573 °	-120.234573 °
DWR ID	DWR_NA0010_23_s _ 2012_9				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe and berm.					

No Photos

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	<b>3.64</b>	Rating **	A/W	Issue No.	<b>23</b>
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			36.779340 °	°
				-120.234460 °	°
DWR ID	DWR_NA0010_23_f_2017_23				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:25					
Site Designation:219-FOC-7					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	<b>4.13</b>	Rating **	M	Issue No.	<b>34</b>
LM End	<b>4.13</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.784217 °	36.784217 °
				-120.228876 °	-120.228876 °
DWR ID	DWR_NA0010_23_s_2018_34				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.13	Rating **	U	Issue No.	10
LM End	4.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.784212 °	36.784212 °
				-120.228815 °	-120.228815 °
DWR ID	DWR_NA0010_23_s_2012_10				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe.					

No Photos

LM Start	4.45	Rating **	M	Issue No.	11
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 landside toe and berm.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.71	Rating **	M	Issue No.	41
LM End	4.71	Issue Type +	En	Location *	
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 natural gas pipeline of an unknown material through the levee, 6 feet below the crown. Gas line gaging area and compressor station in the channel, 50 feet from the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/3/2014					

No Photos

LM Start	4.85	Rating **	M	Issue No.	42
LM End	4.85	Issue Type +	En	Location *	
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 by 30-inch square reinforced concrete box gravity irrigation culvert through the levee, 10.7 feet below the crown. 4.5-foot by 7-foot concrete riser with slide gate on the waterside (WS) slope. Concrete U-shaped headwall on each end. 15-foot-long cobble revetted inlet channel. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/3/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39540\_59848.jpg



Slide gate in concrete riser on WS shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.85	Rating **	M	Issue No.	42 (cont)	
LM End	4.85	Issue Type +	En	Location *		
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 by 30-inch square reinforced concrete box gravity irrigation culvert through the levee, 10.7 feet below the crown. 4.5-foot by 7-foot concrete riser with slide gate on the waterside (WS) slope. Concrete U-shaped headwall on each end. 15-foot-long cobble revetted inlet channel. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/3/2014						

LM Start	<b>4.85</b>	Rating **	M	Issue No.	<b>42 (cont)</b>
LM End	<b>4.85</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39540\_59847.jpg



Heavy vegetation in outlet/channel on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39540\_59849.jpg



Heavy vegetation at concrete inlet on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	5.68	Rating **	U	Issue No.	5
LM End	5.68	Issue Type +	Ma	Location *	LS
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 : SP\_2018\_NA0010\_139\_5\_20180307\_00006.jpg



Looking at several rodent holes on landside slope.

LM Start	5.68	Rating **	M	Issue No.	43	
LM End	5.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 by 36-inch square reinforced concrete box gravity drainage culvert through the levee, 9 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. 5-foot-long cobble revetted outlet channel. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.71)].						
FS Date: 4/3/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39542\_59830.jpg



Concrete headwall on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	5.68	Rating **	M	Issue No.	43 (cont)	
LM End	5.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 36-inch square reinforced concrete box gravity drainage culvert through the levee, 9 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. 5-foot-long cobble revetted outlet channel. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.71)].						
FS Date: 4/3/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39542\_59829.jpg



Flapgate on Concrete headwall on WS toe.

LM Start	<b>5.68</b>	Rating **	M	Issue No.	<b>43 (cont)</b>
LM End	<b>5.68</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39542\_59831.jpg



Concrete headwall at LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	7.06	Rating **	M	Issue No.	44	
LM End	7.06	Issue Type +	En	Location *		
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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002].						
FS Date: 4/3/2014						

LM Start	<b>7.06</b>	Rating **	M	Issue No.	<b>44 (cont)</b>
LM End	<b>7.06</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39543\_59826.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39543\_59828.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	7.06	Rating **	M	Issue No.	44 (cont)	
LM End	7.06	Issue Type +	En	Location *		
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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/3/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39543\_59827.jpg



Concrete headwall on LS toe.

LM Start	8.32	Rating **	M	Issue No.	45
LM End	8.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.33)].					
FS Date: 4/3/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39544\_59823.jpg



Flapgate on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.32	Rating **	M	Issue No.	45 (cont)	
LM End	8.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.2 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.33)].						
FS Date: 4/3/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39544\_59821.jpg



concrete headwall at drainage ditch on WS toe.

LM Start	<b>8.32</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>8.32</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39544\_59822.jpg



Concrete headwall on LS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.52	Rating **	M	Issue No.	46
LM End	8.52	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.54)]. FS Date: 4/3/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39545\_59817.jpg



Concrete headwall on WS toe.

LM Start	<b>8.52</b>	Rating **	M	Issue No.	<b>46 (cont)</b>
LM End	<b>8.52</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39545\_59819.jpg



Flapgate on Concrete headwall at WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.52	Rating **	M	Issue No.	46 (cont)	
LM End	8.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.6 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.54)].						
FS Date: 4/3/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39545\_59818.jpg



Concrete headwall on LS toe.

LM Start	8.97	Rating **	U	Issue No.	25
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.799606 °	36.799606 °
				-120.175395 °	-120.175395 °
DWR ID	DWR_NA0010_23_f_2016_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on waterside shoulder.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_25\_20180307\_00021.jpg



Looking at typical view of rodent hole on waterward shoulder.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	9.19	Rating **	M	Issue No.	32
LM End	9.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.802456 °	36.803233 °
				-120.173675 °	-120.173162 °
DWR ID	DWR_NA0010_23_f_2017_32				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	9.75	Rating **	U	Issue No.	47
LM End	9.75	Issue Type +	En	Location *	
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: 48-inch by 63-inch reinforced concrete box gravity irrigation culvert through the levee, 10 feet below the crown. Concrete U-shaped headwall on each end. Gear pedestal slide gate with wall bracket on the waterside (WS) headwall. 10-foot-long cobble revetted outlet channel. Guardrail on each shoulder. Slide gates on the WS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.76)]. FS Date: 7/20/2016					

Photo 1 of 3 : UCIP\_SP\_2018\_49971\_59810.jpg



Slide gate actuator visible on WS shoulder with concrete headwall.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	47 (cont)
LM End	9.75	Issue Type +	En	Location *	
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: 48-inch by 63-inch reinforced concrete box gravity irrigation culvert through the levee, 10 feet below the crown. Concrete U-shaped headwall on each end. Gear pedestal slide gate with wall bracket on the waterside (WS) headwall. 10-foot-long cobble revetted outlet channel. Guardrail on each shoulder. Slide gates on the WS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.76)]. FS Date: 7/20/2016					

Photo 2 of 3 : UCIP\_SP\_2018\_49971\_59809.jpg



Slide gate on concrete headwall at WS toe.

LM Start	9.75	Rating **	U	Issue No.	47 (cont)
LM End	9.75	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_49971\_59808.jpg



Heavy corrosion in slide gate tracks on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	48	
LM End	9.75	Issue Type +	En	Location *		
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 gravity irrigation culvert through the levee, 10 feet below the crown. Concrete U-shaped headwall on each end. Gear pedestal slide gate with wall bracket on the waterside (WS) headwall. 10-foot-long cobble revetted outlet channel. Guardrail on each shoulder. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/20/2016						

LM Start	<b>9.75</b>	Rating **	U	Issue No.	<b>48 (cont)</b>
LM End	<b>9.75</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49972\_59802.jpg



Slide gate actuators on Concrete headwall at WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2018\_49972\_59801.jpg



Slide gates on WS toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	48 (cont)	
LM End	9.75	Issue Type +	En	Location *		
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 gravity irrigation culvert through the levee, 10 feet below the crown. Concrete U-shaped headwall on each end. Gear pedestal slide gate with wall bracket on the waterside (WS) headwall. 10-foot-long cobble revetted outlet channel. Guardrail on each shoulder. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49972\_59800.jpg



Slide gate tracks show heavy corrosion impacting actuation of slide gate.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/17/2018 - 4/17/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>21</b>
LM End	<b>8.35</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.773168 °	36.778322 °	
			-120.285227 °	-120.184002 °	
DWR ID	DWR_NA0010_24_s_2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>22</b>
LM End	<b>8.35</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.773168 °	36.778322 °	
			-120.285227 °	-120.184002 °	
DWR ID	DWR_NA0010_24_s_2018_22				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.06</b>	Rating **	M	Issue No.	<b>47</b>
LM End	<b>0.06</b>	Issue Type +	En	Location *	WS
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 waterside slope. Berm is being used for staging of earthen material.					

Photo 1 of 2 : SP\_2018\_NA0010\_140\_47\_20180307\_00009.jpg



Looking northeast at berm on waterward slope.

* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.06	Rating **	M	Issue No.	47 (cont)
LM End	0.06	Issue Type +	En	Location *	WS
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 waterside slope. Berm is being used for staging of earthen material.					

Photo 2 of 2 : SP\_2018\_NA0010\_140\_47\_20180307\_00010.jpg



Looking north at berm on waterward slope.

LM Start	0.43	Rating **	M	Issue No.	20
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.767759 °	36.767759 °
				-120.283559 °	-120.283559 °
DWR ID	DWR_NA0010_24_f_2017_20				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limb on waterside.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.50	Rating **	M	Issue No.	267
LM End	0.50	Issue Type +	En	Location *	
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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33264\_60059.jpg



View of waterward side.

LM Start	<b>0.50</b>	Rating **	M	Issue No.	<b>267 (cont)</b>
LM End	<b>0.50</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33264\_60057.jpg



Square gate visible on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.50	Rating **	M	Issue No.	267 (cont)	
LM End	0.50	Issue Type +	En	Location *		
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 by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33264\_60058.jpg



View of landward side.

LM Start	0.82	Rating **	M	Issue No.	6
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.766775 °	36.766962 °
				-120.278757 °	-120.278602 °
DWR ID	DWR_NA0010_24_s_2013_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_6\_20180307\_00003.jpg



Looking at several rodent holes on landward slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	<b>0.85</b>	Rating **	A/W	Issue No.	<b>12</b>
LM End	<b>0.86</b>	Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		36.767150 °	36.767250 °	
			-120.278440 °	-120.278350 °	
DWR ID	DWR_NA0010_24_f_2017_12				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:14					
Site Designation:220-107					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	<b>1.06</b>	Rating **	M	Issue No.	<b>268</b>
LM End	<b>1.06</b>	Issue Type +	En	Location *	
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 coated steel drainage discharge pipe through the levee, 2 feet below the crown. Crown roadway has been padded 1 foot. Steel cutoff wall around the pipe at the centerline of the levee. Pump on the landside (LS). Siphon breaker on the apex of the pipe on the LS shoulder. Galvanized siphon vent pipe on the LS shoulder. (Plans to install two 24-inch steel discharge pipelines through the levee to dispose of seepage water collected in farm sumps Nos. 8 and 12 authorized under Permit No. 13735, 1983 - Rio Seco Farm).					
[Additional Reference(s): DWR Levee Log, 2002].					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_33265\_60065.jpg



View of landward side.

* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	268 (cont)	
LM End	1.06	Issue Type +	En	Location *		
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 coated steel drainage discharge pipe through the levee, 2 feet below the crown. Crown roadway has been padded 1 foot. Steel cutoff wall around the pipe at the centerline of the levee. Pump on the landside (LS). Siphon breaker on the apex of the pipe on the LS shoulder. Galvanized siphon vent pipe on the LS shoulder. (Plans to install two 24-inch steel discharge pipelines through the levee to dispose of seepage water collected in farm sumps Nos. 8 and 12 authorized under Permit No. 13735, 1983 - Rio Seco Farm). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_33265\_60064.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	269
LM End	1.75	Issue Type +	En	Location *	
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 coated steel gravity drainage pipe through the levee, 2 feet below the crown. Pipe encased in concrete through the levee crown. Steel cutoff wall around the pipe at each shoulder. Siphon breaker installed on the apex of the pipe on the landside (LS) shoulder. Vent pipe on LS shoulder. Rock riprap on the waterside (WS) slope. (Plans to construct a new discharge structure and to rehabilitate one existing diversion structure to return intercepted seepage to the San Joaquin River authorized under Permit No. 13085, 1981 - Diener, Dry River Farms). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33266\_60069.jpg



Overview of levee crown at crossing.

LM Start	<b>1.75</b>	Rating **	M	Issue No.	<b>269 (cont)</b>
LM End	<b>1.75</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33266\_60070.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	269 (cont)	
LM End	1.75	Issue Type +	En	Location *		
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 coated steel gravity drainage pipe through the levee, 2 feet below the crown. Pipe encased in concrete through the levee crown. Steel cutoff wall around the pipe at each shoulder. Siphon breaker installed on the apex of the pipe on the landside (LS) shoulder. Vent pipe on LS shoulder. Rock riprap on the waterside (WS) slope. (Plans to construct a new discharge structure and to rehabilitate one existing diversion structure to return intercepted seepage to the San Joaquin River authorized under Permit No. 13085, 1981 - Diener, Dry River Farms). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33266\_60071.jpg



View of landward side.

LM Start	1.75	Rating **	M	Issue No.	23
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.771119 °	36.771119 °
				-120.266173 °	-120.266173 °
DWR ID	DWR_NA0010_24_s_2018_23				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.07	Rating **	U	Issue No.	19
LM End	2.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.770778 °	36.770293 °
				-120.260848 °	-120.259840 °
DWR ID	DWR_NA0010_24_f_2017_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
LMA mowed landside toe, however dense vegetation on slope limits visibility.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_19\_20180307\_00008.jpg



Looking northwest at landside slope.

LM Start	2.69	Rating **	M	Issue No.	270	
LM End	2.69	Issue Type +	En	Location *		
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 coated steel drainage discharge pipe through the levee, 2 feet below the crown. Crown roadway has been padded 1 foot. Steel cutoff wall around the pipe at the centerline of the levee. Pump on the landside (LS). Siphon breaker on the apex of the pipe on the LS shoulder. Galvanized siphon vent pipe on the LS shoulder. (Plans to install two 24-inch steel discharge pipelines through the levee to dispose of seepage water collected in farm sumps Nos. 8 and 12 authorized under Permit No. 13735, 1983 - Rio Seco Farm). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_33267\_60075.jpg



Overview of levee crown at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.69	Rating **	M	Issue No.	270 (cont)	
LM End	2.69	Issue Type +	En	Location *		
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 coated steel drainage discharge pipe through the levee, 2 feet below the crown. Crown roadway has been padded 1 foot. Steel cutoff wall around the pipe at the centerline of the levee. Pump on the landside (LS). Siphon breaker on the apex of the pipe on the LS shoulder. Galvanized siphon vent pipe on the LS shoulder. (Plans to install two 24-inch steel discharge pipelines through the levee to dispose of seepage water collected in farm sumps Nos. 8 and 12 authorized under Permit No. 13735, 1983 - Rio Seco Farm). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33267\_60076.jpg



View of waterward side.

LM Start	<b>2.69</b>	Rating **	M	Issue No.	<b>270 (cont)</b>
LM End	<b>2.69</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33267\_60077.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	<b>2.83</b>	Rating **	M	Issue No.	<b>18</b>
LM End	<b>2.83</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		36.772188 °	36.772188 °	
			-120.248702 °	-120.248702 °	
DWR ID	DWR_NA0010_24_f_2017_18				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	<b>2.85</b>	Rating **	A/W	Issue No.	<b>13</b>
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		36.772060 °		
			-120.248370 °		
DWR ID	DWR_NA0010_24_f_2017_13				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:12 Site Designation:220-1 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	3.46	Rating **	M	Issue No.	7
LM End	3.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.769345 °	36.769345 °
				-120.238370 °	-120.238370 °
DWR ID	DWR_NA0010_24_s_2012_7				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
One of several rodent holes on landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_7\_20180307\_00004.jpg



Looking east at one of several rodent holes on landward slope.

LM Start	3.53	Rating **	A/W	Issue No.	15
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			36.768910 °	°
				-120.237180 °	°
DWR ID	DWR_NA0010_24_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:13					
Site Designation:220-4					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	3.70	Rating **	A/W	Issue No.	16	
LM End	3.76	Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			36.767840 °	36.767760 °	
				-120.234340 °	-120.233380 °	
DWR ID	DWR_NA0010_24_f_2017_16					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:15						
Site Designation:220-105						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	4.06	Rating **	M	Issue No.	271
LM End	4.06	Issue Type +	En	Location *	
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 by 30-inch square reinforced concrete box drainage discharge culvert through the levee, 12.5 feet below the crown. Pump on the landside (LS). Concrete riser with slide gate on the waterside (WS) slope. Screw gate on the LS shoulder. (Plans to construct a new discharge structure and to rehabilitate one existing diversion structure to return intercepted seepage to the San Joaquin River authorized under Permit No. 13085, 1981 - Diener, Dry River Farms). [Additional Reference(s): DWR Levee Log, 2002].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36849\_67237.jpg



View of waterwar side.

* 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 : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	4.06	Rating **	M	Issue No.	271 (cont)	
LM End	4.06	Issue Type +	En	Location *		
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 by 30-inch square reinforced concrete box drainage discharge culvert through the levee, 12.5 feet below the crown. Pump on the landside (LS). Concrete riser with slide gate on the waterside (WS) slope. Screw gate on the LS shoulder. (Plans to construct a new discharge structure and to rehabilitate one existing diversion structure to return intercepted seepage to the San Joaquin River authorized under Permit No. 13085, 1981 - Diener, Dry River Farms). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/8/2014						

LM Start	<b>4.06</b>	Rating **	M	Issue No.	<b>271 (cont)</b>
LM End	<b>4.06</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36849\_67236.jpg



Slide gate inside concrete box located on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36849\_67235.jpg



Overview of levee at crossing.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	4.27	Rating **	M	Issue No.	17
LM End	4.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.772003°	36.772003°
				-120.230075°	-120.230075°
DWR ID	DWR_NA0010_24_f_2017_17				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_17\_20180307\_00007.jpg



Looking southeast at the landside slope.

LM Start	5.29	Rating **	M	Issue No.	266
LM End	5.40	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.781926 °	36.782405 °
				-120.224625 °	-120.222763 °
DWR ID	DWR_NA0010_24_s_2015_266				
Comment Code					
MA : Material					
Inspector Comment					
Rocks stockpile near waterside toe.					

Photo 1 of 2 : SP\_2018\_NA0010\_140\_266\_20180307\_00011.jpg



Looking at rock stockpile on waterward berm. Fall 2015

LM Start	<b>5.29</b>	Rating **	M	Issue No.	<b>266 (cont)</b>
LM End	<b>5.40</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_140\_266\_20180307\_00012.jpg



Looking north at rock pile on waterward berm.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	5.35	Rating **	U	Issue No.	24
LM End	5.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.782190 °	36.782314 °
				-120.223599 °	-120.223106 °
DWR ID	DWR_NA0010_24_s_2018_24				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Possible tobacco plant on waterward slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_24\_20180420\_00033.jpg



Looking south at dense planting (tobacco plant) on waterward shoulder and slope. (Spring 2018)

LM Start	6.15	Rating **	C	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 waterside berm over three feet high and 25 feet away from waterside toe should be removed.					

No Photos

LM Start	6.30	Rating **	U	Issue No.	25
LM End	6.30	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.788095 °	36.788095 °
				-120.210264 °	-120.210264 °
DWR ID	DWR_NA0010_24_s_2018_25				
Comment Code					
MA : Material					
Inspector Comment					
PVC pipe stockpile on waterward berm.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_25\_20180419\_00032.jpg



Looking east at pvc pipes on waterward berm. (Spring 2018)

**\* 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	6.33	Rating **	A/W	Issue No.	3
LM End	6.33	Issue Type +	En	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					
Prunings pile was burned.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_3\_20180307\_00002.jpg



Looking downstream (north) at large pruning pile on waterward berm.

LM Start	6.35	Rating **	M	Issue No.	14
LM End	6.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.788225 °	36.788225 °
				-120.209357 °	-120.209357 °
DWR ID	DWR_NA0010_24_s_2017_14				
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 landside shoulder and slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_140\_14\_20180307\_00005.jpg



Looking north at the landside slope.

LM Start	<b>6.35</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>6.35</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_140\_14\_20180307\_00006.jpg



Looking at typical view of rodent holes within this section on landward shoulder and 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	6.73	Rating **	M	Issue No.	272
LM End	6.73	Issue Type +	En	Location *	
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 existng 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 gravity drainage pipe through the levee, 3.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/20/2016					

LM Start	<b>6.73</b>	Rating **	M	Issue No.	<b>272 (cont)</b>
LM End	<b>6.73</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_50056\_60105.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2018\_50056\_60107.jpg



View of WS--debris (pipe sections) located on waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	6.73	Rating **	M	Issue No.	272 (cont)	
LM End	6.73	Issue Type +	En	Location *		
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 existng 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 gravity drainage pipe through the levee, 3.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50056\_60106.jpg



Flap gate visible on WS.

LM Start	8.33	Rating **	M	Issue No.	273
LM End	8.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 reinforced concrete gravity drainage pipe through the levee, 3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.32)]. FS Date: 4/8/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_33272\_60121.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	8.33	Rating **	M	Issue No.	273 (cont)	
LM End	8.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			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 reinforced concrete gravity drainage pipe through the levee, 3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.32)].						
FS Date: 4/8/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_33272\_60120.jpg



View of landward side.

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

**Unit Cover Sheet**

**Spring 2018 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)				
Date of Inspection	4/16/2018 - 4/16/2018			
DWR Inspector	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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	7
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.281769 °
				-120.880678 °	-120.880745 °
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 : SP\_2018\_NA0010\_141\_7\_20180307\_00001.jpg



Looking south at the landside slope.

LM Start	<b>0.00</b>	Rating **	U	Issue No.	<b>7 (cont)</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_141\_7\_20180307\_00002.jpg



Looking at typical view of landward slope.

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.281768 °
				-120.880678 °	-120.880745 °
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 : SP\_2018\_NA0010\_141\_9\_20180307\_00005.jpg



Looking south at the waterside 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	9 (cont)	
LM End	1.00	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.296261 °		37.281768 °
				-120.880678 °		-120.880745 °
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 : SP\_2018\_NA0010\_141\_9\_20180307\_00006.jpg



Looking typical view of waterward slope.

LM Start	0.00	Rating **	M	Issue No.	8
LM End	1.76	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296259 °	37.281615 °
				-120.880677 °	-120.867133 °
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 : SP\_2018\_NA0010\_141\_8\_20180307\_00003.jpg



Looking south at the levee crown.

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>8 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2018\_NA0010\_141\_8\_20180307\_00004.jpg



Looking at typical view of levee crown.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	14
LM End	0.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)]. FS Date: 5/1/2014					

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.02</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39501\_67242.jpg



View of waterward side--dense vegetation on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39501\_67240.jpg



Pipe daylight visible on waterward toe.

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

## Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	14 (cont)	
LM End	0.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39501\_67241.jpg



View of landward side--dense vegetation on landward side.

LM Start	0.36	Rating **	M	Issue No.	15
LM End	0.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36851\_67249.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.36	Rating **	M	Issue No.	15 (cont)	
LM End	0.36	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)]. FS Date: 5/1/2014						

LM Start	<b>0.36</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.36</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36851\_67248.jpg



Pipe outlet visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36851\_67247.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.59	Rating **	M	Issue No.	16	
LM End	0.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)].						
FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36852\_67250.jpg



Overview of waterward side--Salt Slough.

LM Start	<b>0.59</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>0.59</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36852\_67251.jpg



View of waterward slope covered by dense vegetation.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.59	Rating **	M	Issue No.	16 (cont)	
LM End	0.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36852\_67252.jpg



Pipe and flap gate visible on waterward side.

LM Start	0.97	Rating **	M	Issue No.	17
LM End	0.97	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.97)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36853\_67256.jpg



View of waterward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.97	Rating **	M	Issue No.	17 (cont)	
LM End	0.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.97)]. FS Date: 5/1/2014						

LM Start	<b>0.97</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>0.97</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36853\_67255.jpg



Pipe and evidence of flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36853\_67254.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	13
LM End	1.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.281791 °	37.281676 °
				-120.880747 °	-120.867253 °
DWR ID	DWR_NA0010_25_s_2018_13				
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	1.00	Rating **	M	Issue No.	11
LM End	2.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.281791 °	37.271073 °
				-120.880747 °	-120.866562 °
DWR ID	DWR_NA0010_25_s_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_141\_11\_20180419\_00025.jpg



Looking northeast at typical view of waterward slope. (Spring 2018)

LM Start	1.00	Rating **	M	Issue No.	10
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.281791 °	37.271073 °
				-120.880746 °	-120.866562 °
DWR ID	DWR_NA0010_25_s_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_141\_10\_20180419\_00026.jpg



Looking north at typical view of landward slope. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> 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 - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.	12
LM End	2.49	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.281677 °	37.271073 °
				-120.867254 °	-120.866562 °
DWR ID	DWR_NA0010_25_s_2018_12				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_141\_12\_20180419\_00027.jpg



Looking east at typical view of levee crown. (Spring 2018)

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36854\_67259.jpg



View of landward side.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	18 (cont)	
LM End	2.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 5/1/2014						

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36854\_67260.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36854\_67261.jpg



Flap gate and concrete headwall located on waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.45	Rating **	M	Issue No.	19
LM End	2.45	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.45)]. FS Date: 5/1/2014 4:04:00 PM					

LM Start	<b>2.45</b>	Rating **	M	Issue No.	<b>19 (cont)</b>
LM End	<b>2.45</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39502\_67270.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39502\_67269.jpg



Pipe daylights at waterward toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.45	Rating **	M	Issue No.	19 (cont)	
LM End	2.45	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			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 corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.45)]. FS Date: 5/1/2014 4:04:00 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_39502\_67268.jpg



View of landward side.

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