

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2016 Levee Inspection Results****Lower San Joaquin Levee District**

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

** 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 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	22.52
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/16/2016 - 5/19/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

No Photos

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

No Photos

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

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	95
LM End	22.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348678 °	37.166901 °
				-120.958734 °	-120.749937 °
DWR ID	DWR_NA0010_01_s _ 2016_95				
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.	96
LM End	22.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348678 °	37.166902 °
				-120.958733 °	-120.749936 °
DWR ID	DWR_NA0010_01_s _ 2016_96				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	1213
LM End	0.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.348637 °	37.348637 °
				-120.958834 °	-120.958834 °
DWR ID					

Comment Code

Inspector Comment

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

LM Start	0.00	Rating **	M	Issue No.	1213 (cont)
LM End	0.00	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39091_60601.jpg



Flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39091_60600.jpg



Flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

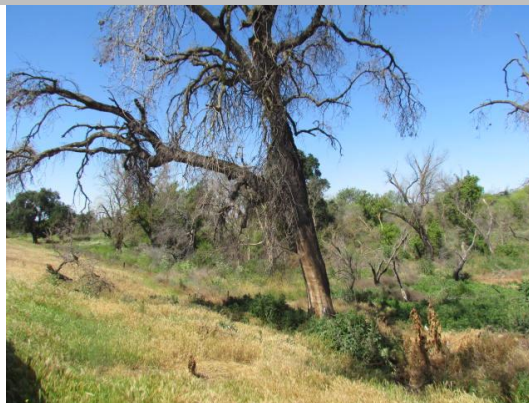
Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	0.14	Rating **	U	Issue No.	7
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.347152 °	37.347152 °
				-120.960560 °	-120.960560 °
DWR ID	DWR_NA0010_01_s _ 2012_7				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Dead tree on waterward slope and toe.					

Photo 1 of 1 : SP_2016_NA0010_118_7_20160523_00232.jpg



Looking southwest at dead tree on landward slope and toe.

LM Start	0.19	Rating **	M	Issue No.	3
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.346576 °	37.346576 °
				-120.961061 °	-120.961061 °
DWR ID	DWR_NA0010_01_s _ 2016_3				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dead tree (limbs & branches) blocking landward right of way/ berm.					

Photo 1 of 1 : SP_2016_NA0010_118_3_20160523_00233.jpg



Looking east at brush and tree limbs blocking landward toe.

LM Start	0.23	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			37.346096 °	37.346096 °
				-120.961455 °	-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.					

Photo 1 of 1 : SP_2016_NA0010_118_1_20160512_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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	0.34	Rating **	M	Issue No.	1214
LM End	0.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.344705 °	37.344705 °
				-120.962176 °	-120.962176 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39092					
DS_ID:19651					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe has significant sediment buildup and shows some signs of corrosion at landward toe. Recommend cleaning sediment from inside pipe and check wall integrity.					
FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through the levee, 18.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.35).					
FS Date: 4/8/2014					

LM Start	0.34	Rating **	M	Issue No.	1214 (cont)
LM End	0.34	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39092_60611.jpg



Flapgate and headwall visible off WS toe.

Photo 2 of 2 : UCIP_SP_2016_39092_60613.jpg



Flapgate and headwall visible off WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1215
LM End	0.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.341507 °	37.341507 °
				-120.961283 °	-120.961283 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39095 DS_ID:19583 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend removing vegetation pile from waterward toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.62). FS Date: 4/8/2014					

LM Start	0.60	Rating **	M	Issue No.	1215 (cont)
LM End	0.60	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39095_60622.jpg



Flapgate and headwall visible on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39095_60623.jpg



Flapgate and headwall visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	0.93	Rating **	M	Issue No.	1216
LM End	0.93	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.339598 °	37.339598 °
				-120.957202 °	-120.957202 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39096 DS_ID:19585 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Moderate erosion around headwall on landward toe. May or may not be an issue. Need to contact owner to determine status of crossing and to address erosion issue on landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7-feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.95). FS Date: 4/8/2014					

LM Start	0.93	Rating **	M	Issue No.	1216 (cont)
LM End	0.93	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39096_60632.jpg



Flapgate, pipe, and headwall on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39096_60631.jpg



Concrete headwall and pipe visible at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	1.46	Rating **	M	Issue No.	1217
LM End	1.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.336866 °	37.336866 °
				-120.948520 °	-120.948520 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39099					
DS_ID:19588					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some sediment buildup inside pipe at LS toe.					
Recommend contacting owner to clear sediment buildup and check wall integrity through pipe section.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 108 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.48).					
FS Date: 4/8/2014					

LM Start	1.46	Rating **	M	Issue No.	1217 (cont)
LM End	1.46	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39099_60652.jpg



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

Photo 2 of 2 : UCIP_SP_2016_39099_60653.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

Photo 1 of 2 : UCIP_SP_2016_33563_60661.jpg



Pipe, headwall, and flapgate visible on WS toe.

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

Photo 2 of 2 : UCIP_SP_2016_33563_60663.jpg



Pipe, headwall, and flapgate visible on WS toe.

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

Lower San Joaquin Levee District

Pipe, flapgate, and headwall on WS toe.

Page 10 of 87

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	2.06	Rating **	M	Issue No.	1219
LM End	2.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.333653 °	37.333653 °
				-120.938770 °	-120.938770 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39123					
DS_ID:19570					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Unable to find inlet on landward toe. Recommend clearing vegetation on landward side to properly inspect inlet.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.8 feet below the crown. Flap gate on waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.08).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_39123_60675.jpg



Pipe and flapgate visible on WS toe.

LM Start	2.06	Rating **	M	Issue No.	1219 (cont)
LM End	2.06	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39123_60676.jpg



Pipe and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	1220
LM End	2.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.327362 °	37.327362 °
				-120.931591 °	-120.931591 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39127 DS_ID:19573 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sedimentation in pipe at landward toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 7.3 feet below the crown. Flap gate on the waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70). FS Date: 4/8/2014					

LM Start	2.67	Rating **	M	Issue No.	1220 (cont)
LM End	2.67	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39127_60688.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39127_60689.jpg



Pipe, flapgate, and headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	3.13	Rating **	M	Issue No.	1221
LM End	3.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.321444 °	37.321444 °
				-120.928764 °	-120.928764 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39128					
DS_ID:19574					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some minor erosion around headwall on LS toe.					
FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 8-feet below the crown. Flap gate on the waterward end. Brass cap No. 100					
BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.16).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_39128_60702.jpg



Pipe, Flapgate, and headwall on WS toe.

LM Start	3.13	Rating **	M	Issue No.	1221 (cont)
LM End	3.13	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39128_60700.jpg



Pipe, Flapgate, and headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1222
LM End	3.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.317116°	37.317116°
				-120.926451°	-120.926451°
DWR ID					

Comment Code

Inspector Comment

FS_ID:39130
DS_ID:19575
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 36-inch CM pipe, through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.50).
FS Date: 4/8/2014

LM Start	3.47	Rating **	U	Issue No.	1222 (cont)
LM End	3.47	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39130_60707.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39130_60706.jpg



Pipe and headwall on LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1179
LM End	3.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.317057 °	37.317057 °
				-120.926443 °	-120.926443 °
DWR ID	DWR_NA0010_01_s _ 2015_1179				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions greater than three inches on landward slope.					

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

Photo 1 of 3 : SP_2016_NA0010_118_1179_20160512_00025.jpg



Looking south at erosion on landward slope and toe.

Photo 2 of 3 : SP_2016_NA0010_118_1179_20160512_00026.jpg



Looking southwest at erosion on landward slope and toe.

Photo 3 of 3 : SP_2016_NA0010_118_1179_20160512_00027.jpg



Looking west at erosion on landward slope and toe.

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

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	3.50	Rating **	M	Issue No.	17
LM End	3.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.316652 °	37.311006 °
				-120.926261 °	-120.926402 °
DWR ID	DWR_NA0010_01_f_2012_17				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	3.70	Rating **	M	Issue No.	2
LM End	3.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.313892 °	37.313598 °
				-120.926507 °	-120.926607 °
DWR ID	DWR_NA0010_01_s_2012_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	3.92	Rating **	M	Issue No.	1223
LM End	3.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.311178 °	37.311178 °
				-120.927007 °	-120.927007 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39132 DS_ID:19576 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate missing from WS. No closure device, but degrading of levee at Highway 140 is lower than pipe, so this does not appear to be a critical issue. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 30-inch CM irrigation pipe through the levee, 3.5 feet below the crown. Slidegate on the waterward end. Brass cap No. 100 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.95). FS Date: 4/8/2014					

LM Start	3.92	Rating **	M	Issue No.	1223 (cont)
LM End	3.92	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39132_60723.jpg



Slide gate missing on WS toe with heavy vegetation camouflaging pipe

Photo 2 of 2 : UCIP_SP_2016_39132_60720.jpg



Slide gate missing on WS toe with heavy vegetation camouflaging pipe

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	3.93	Rating **	M	Issue No.	1224
LM End	3.93	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.311157 °	37.311157 °
				-120.926919 °	-120.926919 °
DWR ID					

Comment Code

Inspector Comment

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

LM Start	3.93	Rating **	M	Issue No.	1224 (cont)
LM End	3.93	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39133_60725.jpg



12-inch concrete standpipe off WS toe.

Photo 2 of 2 : UCIP_SP_2016_39133_60724.jpg



12-inch concrete standpipe off LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	3.98	Rating **	U	Issue No.	5
LM End	4.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.310837 °	37.310003 °
				-120.926182 °	-120.925313 °
DWR ID	DWR_NA0010_01_s _ 2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					
Irrigation ditch at landside toe					

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

Photo 1 of 2 : SP_2016_NA0010_118_5_20160512_00002.jpg



Looking north at irrigation ditch at landside toe.

Photo 2 of 2 : SP_2016_NA0010_118_5_20160512_00003.jpg



Looking south at irrigation ditch at landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1186	
LM End	4.13	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.309080 °		37.309080 °
				-120.924442 °		-120.924442 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39134 DS_ID:19607 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears sleeved with a 12-inch steel pipe with a slide gate at the LS toe. No identified authorization for changes to this crossing. Need to contact owner to obtain additional information about the modifications to crossing. FIELD_STRUCT_DESC: 48-inch CM stormdrain pipe through the levee, 14.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.16). FS Date: 4/8/2014						

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

Photo 1 of 2 : UCIP_SP_2016_39134_60730.jpg



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

Photo 2 of 2 : UCIP_SP_2016_39134_60731.jpg



Assumed pipe exists under pump at LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1187
LM End	4.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.309063 °	37.309063 °
				-120.924449 °	-120.924449 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39138 DS_ID:24866 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to get details of crossing. FIELD_STRUCT_DESC: 12-inch steel stormdrain pipe through the levee 2.5-feet below the crown. 12-inch steel pipe, vent, and pump on stand visible on LS slope. 10-inch PVC pipe visible on WS slope. FS Date: 4/8/2014					

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

Photo 1 of 2 : UCIP_SP_2016_39138_71320.jpg



View of pipe visible on landward side.

Photo 2 of 2 : UCIP_SP_2016_39138_71319.jpg



Pipe through existing 48 inch pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	100
LM End	4.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.309049 °	37.309049 °
				-120.924421 °	-120.924421 °
DWR ID	DWR_NA0010_01_f_2014_100				
Comment Code					
GA : Garbage					
Inspector Comment					
Old PVC pipes left on landward slope.					

Photo 1 of 1 : SP_2016_NA0010_118_100_20160512_00018.jpg



Looking east at old pvc pipes on landward slope.

LM Start	4.18	Rating **	A/W	Issue No.	6
LM End	4.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.308540 °	37.308540 °
				-120.924003 °	-120.924003 °
DWR ID	DWR_NA0010_01_s_2012_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted in this section.					

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	4.25	Rating **	M	Issue No.	1188
LM End	4.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.307930 °	37.307930 °
				-120.923057 °	-120.923057 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39140 DS_ID:19608 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation and fence limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward side. Recommend obtaining access to landward toe and removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 11.9 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.27). FS Date: 4/8/2014					

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

Photo 1 of 2 : UCIP_SP_2016_39140_60733.jpg



Pipe, flapgate, and headwall visible at WS toe.

Photo 2 of 2 : UCIP_SP_2016_39140_60732.jpg



Pipe, flapgate, and headwall visible at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	1189	
LM End	4.69	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.302408 °	37.302408 °	
				-120.920931 °	-120.920931 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39141 DS_ID:19609 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.72). FS Date: 4/8/2014						

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

Photo 1 of 2 : UCIP_SP_2016_39141_60737.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39141_60738.jpg



Pipe, flapgate, and headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	4.69	Rating **	U	Issue No.	9
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.302398 °	37.302398 °
				-120.920920 °	-120.920920 °
DWR ID	DWR_NA0010_01_s _ 2013_9				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					
Levee landward toe damaged by livestock.					

Photo 1 of 1 : SP_2016_NA0010_118_9_20160512_00007.jpg



Looking at landward slope damaged by livestock.

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

Photo 1 of 2 : UCIP_SP_2016_39143_60740.jpg



Flapgate and headwall visible at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_39143_60739.jpg



Flapgate and headwall visible at WS toe.

LM Start	5.87	Rating **	U	Issue No.	93
LM End	6.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.302156 °	37.302156 °
				-120.888031 °	-120.888031 °
DWR ID	DWR_NA0010_01_f_2015_93				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_118_93_20160523_00235.jpg



Looking south at dense veg on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	5.87	Rating **	U	Issue No.	92
LM End	6.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.303555 °	37.302156 °
				-120.904541 °	-120.888030 °
DWR ID	DWR_NA0010_01_f_2015_92				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_118_92_20160523_00236.jpg



Looking south at dense veg on landward slope.

LM Start	5.92	Rating **	M	Issue No.	1198
LM End	5.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.303612 °	37.303612 °
				-120.903704 °	-120.903704 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39151 DS_ID:19611 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Landward side filled in with soil. Need to contact owner. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.95). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_39151_60742.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	5.92	Rating **	M	Issue No.	1198 (cont)	
LM End	5.92	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.303612 °		37.303612 °
				-120.903704 °		-120.903704 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39151 DS_ID:19611 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Landward side filled in with soil. Need to contact owner. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.95). FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_SP_2016_39151_60741.jpg



Top of concrete headwall just visible on LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	6.10	Rating **	M	Issue No.	1199
LM End	6.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.304232 °	37.304232 °
				-120.900706 °	-120.900706 °
DWR ID					

Comment Code

Inspector Comment

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

LM Start	6.10	Rating **	M	Issue No.	1199 (cont)
LM End	6.10	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39152_60745.jpg



Slidegate at LS toe.

Photo 2 of 2 : UCIP_SP_2016_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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	6.39	Rating **	M	Issue No.	1200
LM End	6.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.304459 °	37.304459 °
				-120.895863 °	-120.895863 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39154
DS_ID:19613
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end next to 48-inch concrete riser with walkway over its top. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.40).
FS Date: 4/8/2014

LM Start	6.39	Rating **	M	Issue No.	1200 (cont)
LM End	6.39	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39154_60762.jpg



Pipe, flapgate, and concrete headwall on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39154_60760.jpg



Pipe, flapgate, and concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	6.61	Rating **	U	Issue No.	1255
LM End	6.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.303815 °	37.303815 °
				-120.891955 °	-120.891955 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:41134
DS_ID:19614
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.8 feet below the crown. Wooden fence around 4'X4' drop inlet on LS toe. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.64).
FS Date: 4/8/2014

LM Start	6.61	Rating **	U	Issue No.	1255 (cont)
LM End	6.61	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_41134_60764.jpg



Pipe and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_SP_2016_41134_60766.jpg



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

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	6.86	Rating **	U	Issue No.	1252
LM End	6.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.302098 °	37.302098 °
				-120.887943 °	-120.887943 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:42850
DS_ID:19615
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through the levee, 10.3 feet below the crown. Slidegate on LS toe and a Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).
FS Date: 4/8/2014

LM Start	6.86	Rating **	U	Issue No.	1252 (cont)
LM End	6.86	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_42850_60768.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_42850_60767.jpg



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

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	7.18	Rating **	M	Issue No.	1253
LM End	7.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.300055 °	37.300055 °
				-120.882939 °	-120.882939 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:42851
DS_ID:19616
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe failing and corroded through at LS toe. Need to contact owner to determine status of crossing. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 5.1 feet below the crown. Flap gate on the waterward end. Brass cap No. 90 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.21).
FS Date: 4/8/2014

LM Start	7.18	Rating **	M	Issue No.	1253 (cont)
LM End	7.18	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_42851_60770.jpg



Pipe, concrete headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_42851_60772.jpg



Flapgate and concrete headwall on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	7.29	Rating **	M	Issue No.	1202
LM End	7.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.299931 °	37.299931 °
				-120.880947 °	-120.880947 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39160 DS_ID:19617 EP_NO: 4425 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend contacting owner to determine status of crossing. No pump was found on waterwaard side (riverbank). If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 13.6 feet below the crown. Pipe encased in 6-inches of concrete through levee. 5'X7' Concrete distribution box on the waterward side. 20-inch concrete standpipe at LS toe. Pump on the riverbank, accessible by walkway platform (Pump not found). Concrete cutoff walls around pipe in line with levee shoulders. Pipe extends to 36-inch concrete pipes on both sides of levee. (Permit No. 4425-1965) FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_39160_60776.jpg



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

LM Start	7.29	Rating **	M	Issue No.	1202 (cont)
LM End	7.29	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39160_60775.jpg



5'X7' concrete box riser on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	7.42	Rating **	M	Issue No.	1203
LM End	7.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.299817 °	37.299817 °
				-120.878519 °	-120.878519 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39161 DS_ID:19618 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.46). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_39161_60778.jpg



Pipe and flapgate visible on WS toe.

LM Start	7.42	Rating **	M	Issue No.	1203 (cont)
LM End	7.42	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39161_60780.jpg



Pipe and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

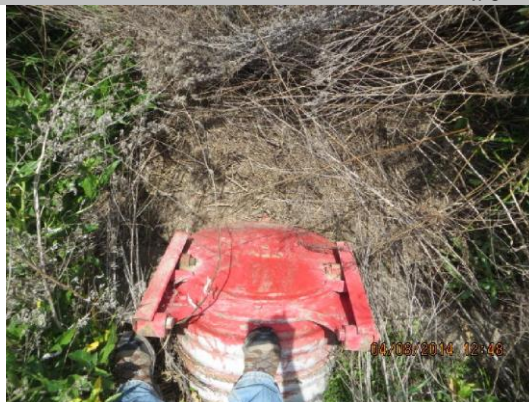
LM Start	7.65	Rating **	M	Issue No.	1191 (cont)
LM End	7.65	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39243_60842.jpg



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

Photo 2 of 2 : UCIP_SP_2016_39243_60840.jpg



Flapgate and headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	8.03	Rating **	M	Issue No.	1192
LM End	8.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.298711 °	37.298711 °
				-120.867756 °	-120.867756 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39244					
DS_ID:19620					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.07).					
FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_SP_2016_39244_60844.jpg



Pipe, Headwall, and flapgate at WS toe.

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

Photo 2 of 2 : UCIP_SP_2016_39244_60847.jpg



Pipe, Headwall, and flapgate at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	8.38	Rating **	M	Issue No.	1193	
LM End	8.38	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.296637 °	37.296637 °	
				-120.861994 °	-120.861994 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39245						
DS_ID:19621						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to						
identify signs of pipe failure (leaks) along the slope. Recommend						
removing vegetation along pipe alignment to conduct proper inspection						
of structure. Sediment buildup at landward toe.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet						
below the crown. Flap gate on the waterward end. Brass cap No. 80 BM						
on headwall on the landward side. (USACE-1967). This entry matches						
the Drainage or Irrigation Structure referenced in O&M manual (HLM						
8.41).						
FS Date: 4/9/2014						

Photo 1 of 2 : UCIP_SP_2016_39245_60850.jpg



Concrete headwall, pipe, and flapgate at WS toe.

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

Photo 2 of 2 : UCIP_SP_2016_39245_60848.jpg



Concrete headwall, pipe, and flapgate at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

Photo 1 of 2 : UCIP_SP_2016_39247_60859.jpg



Pipe, flapgate, and headwall on WS toe.

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

Photo 2 of 2 : UCIP_SP_2016_39247_60860.jpg



Pipe, flapgate, and headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	8.97	Rating **	U	Issue No.	1195
LM End	8.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.297423 °	37.297423 °
				-120.851575 °	-120.851575 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39248
DS_ID:19624
EP_NO: 12156
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 30-inch concrete drainpipe through the levee, 7.3 feet below the crown. Encasing 26-inch steel pipe through entire section, annular gap grouted. Concrete wingwalls on each side of pipe. Slide gate on discharge end with elevated walkway access. Two concrete cutoff walls in center of levee. Concrete headwall (6-inch thick) on discharge end of pipe. (Permit No. 12156-1978)
FS Date: 4/9/2014

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

Photo 1 of 2 : UCIP_SP_2016_39248_60864.jpg



Metal walkway to slidegate operator on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39248_60862.jpg



Slidegate and headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	8.97	Rating **	M	Issue No.	1196	
LM End	8.97	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.297425 °		37.297425 °
				-120.851522 °		-120.851522 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39249 DS_ID:19625 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Some sediment buildup in pipe. FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.00). FS Date: 4/9/2014						

Photo 1 of 2 : UCIP_SP_2016_39249_60870.jpg



Pipe and flapgate visible on WS toe.

LM Start	8.97	Rating **	M	Issue No.	1196 (cont)
LM End	8.97	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39249_60869.jpg



Pipe and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	8.99	Rating **	M	Issue No.	1197
LM End	8.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.297488 °	37.297488 °
				-120.851157 °	-120.851157 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39250					
DS_ID:19626					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.03).					
FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_SP_2016_39250_60872.jpg



Heavy vegetation on LS toe.

LM Start	8.99	Rating **	M	Issue No.	1197 (cont)
LM End	8.99	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39250_60871.jpg



Pipe, concrete headwall, and flapgate at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

Photo 1 of 1 : SP_2016_NA0010_118_12_20160523_00238.jpg



Looking southeast at dense veg on landward slope.

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

Photo 1 of 1 : SP_2016_NA0010_118_94_20160523_00239.jpg



Looking southwest at dense veg on waterward slope.

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

Photo 1 of 1 : SP_2016_NA0010_118_117_20160523_00240.jpg



Looking south at veg 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	9.34	Rating **	M	Issue No.	1201	
LM End	9.34	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.295413 °	37.295413 °	
				-120.845664 °	-120.845664 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39251 DS_ID:19627 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 8.6 feet below the crown. Concrete drop-inlet installed at LS toe. Flap gate on the waterward end. Brass cap No. 80 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.37). FS Date: 4/9/2014						

Photo 1 of 2 : UCIP_SP_2016_39251_60875.jpg



Pipe and flapgate on WS toe.

LM Start	9.34	Rating **	M	Issue No.	1201 (cont)
LM End	9.34	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_39251_60876.jpg



Headwall, Pipe, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	9.57	Rating **	M	Issue No.	14
LM End	9.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.295517 °	37.295517 °
				-120.841452 °	-120.841452 °
DWR ID	DWR_NA0010_01_s _ 2015_14				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression greater than 3" deep by 18" wide by 18" long on levee crown					

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

Photo 1 of 3 : SP_2016_NA0010_118_14_20160512_00009.jpg



Looking at depression on levee crown. (Fall 2015)

Photo 2 of 3 : SP_2016_NA0010_118_14_20160512_00010.jpg



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

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

Photo 3 of 3 : SP_2016_NA0010_118_14_20160512_00011.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	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	10.20	Rating **	M	Issue No.	1204
LM End	10.20	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.287511 °	37.287511 °
				-120.840251 °	-120.840251 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39253
DS_ID:19629
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation blocks waterward and landward toes Recommend removing vegetation from both toes. Also sediment buildup in pipe visible from landward side.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 69 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.23).
FS Date: 4/9/2014

LM Start	10.20	Rating **	M	Issue No.	1204 (cont)
LM End	10.20	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_39253_60884.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39253_60886.jpg



Pipe, headwall, and flapgate at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	10.98	Rating **	M	Issue No.	1205
LM End	10.98	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.282627 °	37.282627 °
				-120.828233 °	-120.828233 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39255 DS_ID:19632 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation blocks landward headwall. Recommend removing excess vegetation on landward toe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 6.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 66 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.00). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_SP_2016_39255_60897.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	10.98	Rating **	M	Issue No.	1205 (cont)
LM End	10.98	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_39255_60899.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	1248
LM End	11.49	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.273787 °	37.273787 °
				-120.825519 °	-120.825519 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36103 DS_ID:19634 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner--landward side has been buried. It appears that soil was removed from levee toe, immediately upstream, and used to pile soil at landward side at crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 62 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.48). FS Date: 4/25/2014					

LM Start	11.49	Rating **	M	Issue No.	1248 (cont)
LM End	11.49	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_36103_65362.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36103_65364.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	11.78	Rating **	M	Issue No.	1249
LM End	11.78	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.269701 °	37.269701 °
				-120.826450 °	-120.826450 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36105
DS_ID:19635
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Crossing is non-functional --landward side is buried. Debris found on landward side (channel). Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 17.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 61 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.76).
FS Date: 4/25/2014

LM Start	11.78	Rating **	M	Issue No.	1249 (cont)
LM End	11.78	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_36105_65372.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36105_65371.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	12.12	Rating **	M	Issue No.	1250
LM End	12.12	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.265336 °	37.265336 °
				-120.826591 °	-120.826591 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36106 DS_ID:19636 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional --landward side is buried. Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.11). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36106_65378.jpg



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

LM Start	12.12	Rating **	M	Issue No.	1250 (cont)
LM End	12.12	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_36106_65379.jpg



Flap gate and concrete headwall visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	12.95	Rating **	M	Issue No.	1225
LM End	12.95	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.256873 °	37.256873 °
				-120.821277 °	-120.821277 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36146 DS_ID:19637 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete headwall on landward side blocked by debris. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.94). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36146_65412.jpg



View of waterward side.

LM Start	12.95	Rating **	M	Issue No.	1225 (cont)
LM End	12.95	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_36146_65411.jpg



Flap gate and concrete headwall visible on waterward 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	13.49	Rating **	M	Issue No.	1251
LM End	13.49	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.251590 °	37.251590 °
				-120.814354 °	-120.814354 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36109 DS_ID:19638 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Concrete headwall blocked by debris located on landward toe. Recommend clearing debris from landward slope and toe. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.48). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36109_65389.jpg



View of waterward side.

LM Start	13.49	Rating **	M	Issue No.	1251 (cont)
LM End	13.49	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_36109_65387.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	1206
LM End	13.59	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.250138 °	37.250138 °
				-120.814720 °	-120.814720 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39256 DS_ID:19639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access to waterward toe due to fence. Unable to find the concrete headwall and flap gate on waterward side past fence. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also need access past fence on waterward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.58). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39256_65418.jpg



View of waterward side.

LM Start	13.59	Rating **	M	Issue No.	1206 (cont)
LM End	13.59	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_39256_65417.jpg



Dense vegetation on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	13.82	Rating **	M	Issue No.	1246
LM End	13.82	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.247568 °	37.247568 °
				-120.817074 °	-120.817074 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36544 DS_ID:19640 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: No photos available--missed crossing. Aerial photograph indicates crossing is present. Need to confirm if crossing is still present on waterward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.81). FS Date: 4/25/2014					

Photo 1 of 1 : UCIP_SP_2016_36544_66286.jpg



Indicators of crossing visible from aerial photograph.

LM Start	14.22	Rating **	M	Issue No.	1226
LM End	14.22	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.242225 °	37.242225 °
				-120.817665 °	-120.817665 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36166					
DS_ID:19641					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.21).					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36166_65449.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	14.22	Rating **	M	Issue No.	1226 (cont)	
LM End	14.22	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.242225 °		37.242225 °
				-120.817665 °		-120.817665 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36166 DS_ID:19641 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.21). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_36166_65452.jpg



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

LM Start	14.65	Rating **	M	Issue No.	1227
LM End	14.65	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.237584 °	37.237584 °
				-120.812967 °	-120.812967 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36167 DS_ID:19642 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope and toe. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.65). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36167_65455.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	14.65	Rating **	M	Issue No.	1227 (cont)	
LM End	14.65	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.237584 °		37.237584 °
				-120.812967 °		-120.812967 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36167 DS_ID:19642 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope and toe. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.65). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_36167_65454.jpg



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

LM Start	15.29	Rating **	M	Issue No.	1228
LM End	15.29	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.231428 °	37.231428 °
				-120.805543 °	-120.805543 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36168 DS_ID:19643 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.29). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36168_65459.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	15.29	Rating **	M	Issue No.	1228 (cont)	
LM End	15.29	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.231428 °	37.231428 °	
				-120.805543 °	-120.805543 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36168						
DS_ID:19643						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.2 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.29).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_36168_65457.jpg



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

LM Start	15.58	Rating **	M	Issue No.	1236
LM End	15.58	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.228155 °	37.228155 °
				-120.802645 °	-120.802645 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36169 DS_ID:19644 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.57). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36169_65464.jpg



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

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	15.58	Rating **	M	Issue No.	1236 (cont)	
LM End	15.58	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.228155 °		37.228155 °
				-120.802645 °		-120.802645 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36169 DS_ID:19644 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.57). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_36169_65463.jpg



View of waterward slope covered by dense vegetation.

LM Start	15.82	Rating **	M	Issue No.	1237
LM End	15.82	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.226099 °	37.226099 °
				-120.799125 °	-120.799125 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36171 DS_ID:19645 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.81). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36171_65471.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1237 (cont)	
LM End	15.82	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.226099 °		37.226099 °
				-120.799125 °		-120.799125 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36171 DS_ID:19645 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 60 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.81). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_36171_65470.jpg



Flap gate visible on waterward side.

LM Start	16.09	Rating **	M	Issue No.	1238
LM End	16.09	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224157 °	37.224157 °
				-120.795250 °	-120.795250 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36172 DS_ID:19646 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.09). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36172_65476.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	16.09	Rating **	M	Issue No.	1238 (cont)	
LM End	16.09	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.224157 °	37.224157 °	
				-120.795250 °	-120.795250 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36172						
DS_ID:19646						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.3 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.09).						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_36172_65475.jpg



Flap gate visible on waterward toe.

LM Start	16.15	Rating **	M	Issue No.	1207
LM End	16.15	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224120 °	37.224120 °
				-120.794002 °	-120.794002 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39257 DS_ID:19647 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.15). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39257_65480.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1208
LM End	16.72	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224223 °	37.224223 °
				-120.783806 °	-120.783806 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39258 DS_ID:19648 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.4 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.72). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39258_66288.jpg



View of levee crown at crossing.

LM Start	16.72	Rating **	M	Issue No.	1208 (cont)
LM End	16.72	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_39258_66289.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1235
LM End	16.72	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224223 °	37.224223 °
				-120.783806 °	-120.783806 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39360 DS_ID:24870 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status and reason for crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee at an unknown depth. Concrete standpipe visible on landward side. FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39360_71487.jpg



View of pipe located on waterward side.

LM Start	16.72	Rating **	M	Issue No.	1235 (cont)
LM End	16.72	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_39360_71486.jpg



View of 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	17.01	Rating **	M	Issue No.	1209
LM End	17.01	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.221838 °	37.221838 °
				-120.780230 °	-120.780230 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39259
DS_ID:19577
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Concrete headwall is buried by dense vegetation. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.01).
FS Date: 4/25/2014

LM Start	17.01	Rating **	M	Issue No.	1209 (cont)
LM End	17.01	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_39259_65518.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39259_65519.jpg



Flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	17.19	Rating **	M	Issue No.	1210
LM End	17.19	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.219302 °	37.219302 °
				-120.779475 °	-120.779475 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39260
DS_ID:19578
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup inside pipe visible from landward side. Recommend clearing pipe.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.19).
FS Date: 4/25/2014

LM Start	17.19	Rating **	M	Issue No.	1210 (cont)
LM End	17.19	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_39260_65525.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39260_65521.jpg



Pipe visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	17.26	Rating **	M	Issue No.	1243
LM End	17.26	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.218332 °	37.218332 °
				-120.779459 °	-120.779459 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36203 DS_ID:19579 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 15.8 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.26). FS Date: 4/25/2014					

LM Start	17.26	Rating **	M	Issue No.	1243 (cont)
LM End	17.26	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_36203_65551.jpg



View of waterward slope.

Photo 2 of 2 : UCIP_SP_2016_36203_65552.jpg



Pipe visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	17.26	Rating **	C	Issue No.	16
LM End	17.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.218251 °	37.218251 °
				-120.779461 °	-120.779461 °
DWR ID	DWR_NA0010_01_s _ 2015_16				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	17.52	Rating **	M	Issue No.	1244
LM End	17.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.215976 °	37.215976 °
				-120.777615 °	-120.777615 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36204 DS_ID:19580 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.53). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36204_65547.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	17.52	Rating **	M	Issue No.	1244 (cont)	
LM End	17.52	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.215976 °	37.215976 °	
				-120.777615 °	-120.777615 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36204 DS_ID:19580 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.53). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_36204_65546.jpg



Flap gate visible on waterward side.

LM Start	18.18	Rating **	M	Issue No.	1211
LM End	18.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.210998 °	37.210998 °
				-120.768900 °	-120.768900 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39261 DS_ID:19581 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend investigating integrity of pipe wall through levee heavy corrosion visible from landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.19). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39261_65557.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	18.18	Rating **	M	Issue No.	1211 (cont)	
LM End	18.18	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.210998 °		37.210998 °
				-120.768900 °		-120.768900 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39261 DS_ID:19581 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend investigating integrity of pipe wall through levee heavy corrosion visible from landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.19). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39261_65556.jpg



Flap gate visible on waterward side.

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_2016_NA0010_118_27_20160512_00017.jpg



Looking at prunings on waterward 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	18.79	Rating **	M	Issue No.	1245
LM End	18.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.204966 °	37.204966 °
				-120.762511 °	-120.762511 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36246 DS_ID:19593 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 50 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.79). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_36246_65627.jpg



Overview of levee crown and waterward slope.

LM Start	18.79	Rating **	M	Issue No.	1245 (cont)
LM End	18.79	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_36246_65623.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	19.17	Rating **	M	Issue No.	1212
LM End	19.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202801 °	37.202801 °
				-120.756209 °	-120.756209 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39263
DS_ID:19594
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Non-functional crossing--pipe is buried on waterward side. Sediment buildup in pipe visible from landward side. Need to coordinate with owner to determine status. If crossing is no longer in use, owner will need to coordinate with DWR Inspector and CVFPB to properly abandon.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 13.0 feet below the crown. Slide gate on the waterward slope. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.17).
FS Date: 4/25/2014

LM Start	19.17	Rating **	M	Issue No.	1212 (cont)
LM End	19.17	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39263_65631.jpg



View of waterward slope. CMP riser and pipe visible.

Photo 2 of 2 : UCIP_SP_2016_39263_65630.jpg



View of waterward 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	19.32	Rating **	M	Issue No.	1229
LM End	19.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200921 °	37.200921 °
				-120.756901 °	-120.756901 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39266 DS_ID:24871 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New crossing found during field inspection--Need to contact owner to obtain additional information about crossing. FIELD_STRUCT_DESC: 1 of 2: 20-inch steel pipe through levee at an unknown depth. Pump station located on landward side. Electrical panel located on landward side. FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39266_71421.jpg



View of landward side.

LM Start	19.32	Rating **	M	Issue No.	1229 (cont)
LM End	19.32	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_39266_71420.jpg



Overview of levee crown at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	19.32	Rating **	M	Issue No.	1230
LM End	19.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200919 °	37.200919 °
				-120.756928 °	-120.756928 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39267
DS_ID:24872
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: New crossing found during field inspection--Need to contact owner to obtain additional information about crossing.
FIELD_STRUCT_DESC: 2 of 2: 20-inch steel pipe through levee at an unknown depth. Pump station located on landward side. Electrical panel located on landward side.
FS Date: 4/25/2014

LM Start	19.32	Rating **	M	Issue No.	1230 (cont)
LM End	19.32	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39267_71427.jpg



View of landward side.

Photo 2 of 2 : UCIP_SP_2016_39267_71425.jpg



View of levee crown at crossings.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	19.53	Rating **	M	Issue No.	1231
LM End	19.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.199427 °	37.199427 °
				-120.760235 °	-120.760235 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39268
DS_ID:19596
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Dense vegetation blocks both waterward and landward headwalls. Sediment buildup in pipe visible from landward side.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.54).
FS Date: 4/25/2014

LM Start	19.53	Rating **	M	Issue No.	1231 (cont)
LM End	19.53	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39268_65641.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39268_65640.jpg



Flap gate visible on waterward side--potential erosion present on 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**

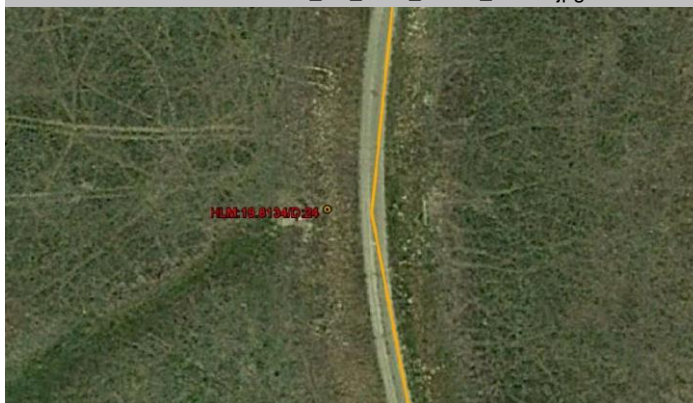
Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	19.81	Rating **	M	Issue No.	1247
LM End	19.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.197502 °	37.197502 °
				-120.764045 °	-120.764045 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36253 DS_ID:19597 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: No photos available for crossing--crossing missed. Recommend taking photos to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.81). FS Date: 4/25/2014					

Photo 1 of 1 : UCIP_SP_2016_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.	1232
LM End	20.18	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.194669 °	37.194669 °
				-120.759736 °	-120.759736 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39269 DS_ID:19598 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend removing vegetation and sediment buildup from both waterward and landward concrete headwalls. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.18). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39269_65648.jpg



Enter photo 1 description or comment here.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	20.18	Rating **	M	Issue No.	1232 (cont)	
LM End	20.18	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.194669 °	37.194669 °	
				-120.759736 °	-120.759736 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39269 DS_ID:19598 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend removing vegetation and sediment buildup from both waterward and landward concrete headwalls. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.18). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39269_65647.jpg



Enter photo 2 description or comment here.

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

Photo 1 of 2 : SP_2016_NA0010_118_1184_20160512_00028.jpg



Looking north at ramp cut into 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : SP_2016_NA0010_118_1184_20160512_00029.jpg



Looking east at ramp cut into landward slope.

LM Start	20.26	Rating **	M	Issue No.	1241
LM End	20.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193550 °	37.193550 °
				-120.760284 °	-120.760284 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39285					
DS_ID:24873					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 12-inch steel sleeved into a 24-inch steel pipe through levee at an unknown depth.					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39285_71446.jpg



Outlet visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	20.26	Rating **	M	Issue No.	1241 (cont)
LM End	20.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193550 °	37.193550 °
				-120.760284 °	-120.760284 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39285					
DS_ID:24873					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 12-inch steel sleeved into a 24-inch steel pipe through levee at an unknown depth.					
FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_SP_2016_39285_71445.jpg



View of waterward side.

LM Start	20.27	Rating **	U	Issue No.	1233
LM End	20.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193542 °	37.193542 °
				-120.760300 °	-120.760300 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39270 DS_ID:19599 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 5.0 feet below the crown. Flap gate on the waterward end. FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39270_66303.jpg



Overview of levee crown at crossing.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	20.27	Rating **	U	Issue No.	1233 (cont)	
LM End	20.27	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.193542 °	37.193542 °	
				-120.760300 °	-120.760300 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39270						
DS_ID:19599						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: 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.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 5.0 feet below the crown. Flap gate on the waterward end.						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39270_66304.jpg



View of waterward side.

LM Start	20.27	Rating **	M	Issue No.	1254
LM End	20.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193542 °	37.193542 °
				-120.760300 °	-120.760300 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39878 DS_ID:19600 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing partially submersed--no signs of failure of pipe present along pipe alignment. Recommend contacting owner to determine status of crossing and condition. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 10.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.27). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39878_66308.jpg



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

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1254 (cont)	
LM End	20.27	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.193542 °		37.193542 °
				-120.760300 °		-120.760300 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39878 DS_ID:19600 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing partially submersed--no signs of failure of pipe present along pipe alignment. Recommend contacting owner to determine status of crossing and condition. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 10.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.27). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39878_66309.jpg



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

LM Start	20.27	Rating **	M	Issue No.	1242
LM End	20.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.193542 °	37.193542 °
				-120.760300 °	-120.760300 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39286					
DS_ID:24874					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 18-inch steel sleeved into a 24-inch steel pipe through levee at an unknown depth.					
FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39286_71442.jpg



Outlets visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1242 (cont)	
LM End	20.27	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.193542 °	37.193542 °	
				-120.760300 °	-120.760300 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39286						
DS_ID:24874						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 18-inch steel sleeved into a 24-inch steel pipe through levee at an unknown depth.						
FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39286_71441.jpg



View of waterward side.

LM Start	20.28	Rating **	C	Issue No.	20
LM End	22.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.193426 °	37.172663 °
				-120.760419 °	-120.754894 °
DWR ID	DWR_NA0010_01_f_2012_20				
Comment Code					
AT : Agricultural tilling					
Inspector Comment					
Landowner corrected deficiency.					

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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	21.32	Rating **	A/W	Issue No.	8
LM End	21.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.180109 °	37.179711 °
				-120.762154 °	-120.761884 °
DWR ID	DWR_NA0010_01_f_2015_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on waterward slope.					

No Photos

LM Start	21.40	Rating **	M	Issue No.	1234
LM End	21.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.179065 °	37.179065 °
				-120.761567 °	-120.761567 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39271 DS_ID:19603 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional--crossing buried on landward side. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.40). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39271_66312.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	21.40	Rating **	M	Issue No.	1234 (cont)	
LM End	21.40	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.179065 °	37.179065 °	
				-120.761567 °	-120.761567 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39271 DS_ID:19603 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional--crossing buried on landward side. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.40). FS Date: 4/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39271_66313.jpg



Flap gate half way submersed located on waterward side.

LM Start	21.75	Rating **	M	Issue No.	1239
LM End	21.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.176106 °	37.176106 °
				-120.756768 °	-120.756768 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39272 DS_ID:19604 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional crossing-landward side is buried. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.76). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39272_65697.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	21.75	Rating **	M	Issue No.	1239 (cont)
LM End	21.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.176106 °	37.176106 °
				-120.756768 °	-120.756768 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39272 DS_ID:19604 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional crossing-landward side is buried. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 40 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.76). FS Date: 4/25/2014					

Photo 2 of 2 : UCIP_SP_2016_39272_65695.jpg



Flap gate visible on waterward side.

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

Photo 1 of 3 : SP_2016_NA0010_118_22_20160512_00014.jpg



Looking downstream at irrigation ditch at LM 22.06

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

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

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

Photo 2 of 3 : SP_2016_NA0010_118_22_20160512_00015.jpg



Looking downstream at irrigation ditch at landside toe.

Photo 3 of 3 : SP_2016_NA0010_118_22_20160512_00016.jpg



Looking upstream at irrigation at landside toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	05/16/2016 05/19/2016	Richard Willoughby

LM Start	22.12	Rating **	M	Issue No.	1240
LM End	22.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.171181°	37.171181°
				-120.754526°	-120.754526°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39273 DS_ID:19605 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional crossing--landward side is buried. Need to contact owner to determine status. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Wooden head- boards on the landward end of pipe. Brass cap No. 31 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.13). FS Date: 4/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39273_65709.jpg



View of waterward side.

LM Start	22.12	Rating **	M	Issue No.	1240 (cont)
LM End	22.12	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39273_65707.jpg



Flap gate visible on waterward side.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	23
LM End	7.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296313 °	37.231292 °
				-120.880567 °	-120.811872 °
DWR ID	DWR_NA0010_02A_s_2016_23				
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.	22
LM End	7.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296313 °	37.231292 °
				-120.880567 °	-120.811871 °
DWR ID	DWR_NA0010_02A_s_2016_22				
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.	24
LM End	2.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.296313 °	37.291556 °
				-120.880576 °	-120.851252 °
DWR ID	DWR_NA0010_02A_s_2016_24				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Control annual weeds and regrade levee crown.					

Photo 1 of 1 : SP_2016_NA0010_119_24_20160523_00065.jpg



Looking northeast at veg on levee 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	27
LM End	2.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296305 °	37.291556 °
				-120.880567 °	-120.851252 °
DWR ID	DWR_NA0010_02A_f_2015_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_119_27_20160523_00070.jpg



Looking at dense veg on landward slope.

LM Start	0.00	Rating **	U	Issue No.	28
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296305 °	37.291556 °
				-120.880567 °	-120.851252 °
DWR ID	DWR_NA0010_02A_f_2015_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_119_28_20160523_00071.jpg



Looking north at dense veg on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_36503_66102.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36503_66101.jpg



Fence along waterward side. No headwall was found on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	35
LM End	0.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.288087°	37.288087°
				-120.874919°	-120.874919°
DWR ID					

Comment Code

Inspector Comment

FS_ID:36504
DS_ID:19653
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.8 feet below the crown. Flap gate on the waterward end. Brass cap No. 138 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.67).
FS Date: 5/1/2014

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

Photo 1 of 2 : UCIP_SP_2016_36504_66106.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36504_66105.jpg



View of landward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 3 : SP_2016_NA0010_119_5_20160512_00003.jpg



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

Photo 2 of 3 : SP_2016_NA0010_119_5_20160512_00004.jpg



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

Photo 3 of 3 : SP_2016_NA0010_119_5_20160512_00005.jpg



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

LM Start	0.75	Rating **	U	Issue No.	5 (cont)
LM End	0.75	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	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.01	Rating **	M	Issue No.	31
LM End	1.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.284889 °	37.284889 °
				-120.871352 °	-120.871352 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39363 DS_ID:19654 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 137 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.02). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39363_66113.jpg



View of waterward side.

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

Photo 2 of 2 : UCIP_SP_2016_39363_66112.jpg



Pipe visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_36506_66114.jpg



Overview of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36506_66117.jpg



Flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_36507_66120.jpg



View of landward side.

Photo 2 of 2 : UCIP_SP_2016_36507_66119.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.61	Rating **	M	Issue No.	38
LM End	1.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.288599 °	37.288599 °
				-120.862007 °	-120.862007 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36508					
DS_ID:19657					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to					
identify signs of pipe failure (leaks) along the slope. Recommend					
removing vegetation along pipe alignment to conduct proper inspection					
of structure.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.2 feet					
below the crown. Flap gate on the waterward end. Brass cap No. 135					
BM on headwall on the landward side. (USACE-1967). This entry					
matches the Drainage or Irrigation Structure referenced in O&M manual					
(HLM 1.62).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_SP_2016_36508_66124.jpg



Overview of landward side.

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

Photo 2 of 2 : UCIP_SP_2016_36508_66123.jpg



Dense vegetation along levee slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.85	Rating **	M	Issue No.	39
LM End	1.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.290836 °	37.290836 °
				-120.858882 °	-120.858882 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36509 DS_ID:19658 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.86). FS Date: 5/1/2014					

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

Photo 1 of 2 : UCIP_SP_2016_36509_66129.jpg



View of landward side.

Photo 2 of 2 : UCIP_SP_2016_36509_66128.jpg



Concrete headwall visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.28	Rating **	M	Issue No.	40
LM End	2.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.291686 °	37.291686 °
				-120.851475 °	-120.851475 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36510 DS_ID:19659 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.30). FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_SP_2016_36510_66133.jpg



View of landward side.

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

Photo 2 of 2 : UCIP_SP_2016_36510_66132.jpg



Concrete headwall visible on landward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.30	Rating **	M	Issue No.	41
LM End	2.30	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.291532 °	37.291532 °
				-120.851203 °	-120.851203 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36511 DS_ID:19660 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 135 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.32). FS Date: 5/1/2014					

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

Photo 1 of 2 : UCIP_SP_2016_36511_66137.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36511_66136.jpg



Flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : SP_2016_NA0010_119_2_20160512_00001.jpg



Looking northeast at unauthorized ramp on landward slope.

Photo 2 of 2 : SP_2016_NA0010_119_2_20160512_00002.jpg



Looking northwest at unauthorized ramp on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

Photo 1 of 2 : UCIP_SP_2016_36512_66142.jpg



View of landward side.

LM Start	2.58	Rating **	M	Issue No.	42 (cont)
LM End	2.58	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_36512_66141.jpg



Concrete headwall visible on landward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	43
LM End	2.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.284326 °	37.284326 °
				-120.845157 °	-120.845157 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36513
DS_ID:19662
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.96).
FS Date: 5/1/2014

LM Start	2.95	Rating **	M	Issue No.	43 (cont)
LM End	2.95	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_36513_66145.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36513_66144.jpg



Flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

LM Start	3.28	Rating **	M	Issue No.	44 (cont)
LM End	3.28	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_36514_66151.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36514_66153.jpg



Flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

Photo 1 of 2 : UCIP_SP_2016_36515_66155.jpg



View of waterward side.

LM Start	3.61	Rating **	M	Issue No.	45 (cont)
LM End	3.61	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_36515_66154.jpg



Flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	3.94	Rating **	M	Issue No.	32
LM End	3.94	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.279704 °	37.279704 °
				-120.834709 °	-120.834709 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39364
DS_ID:19667
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Signs of erosion or sink hole present on landward toe--Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 130 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.95).
FS Date: 5/1/2014

LM Start	3.94	Rating **	M	Issue No.	32 (cont)
LM End	3.94	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39364_66161.jpg



View of landward side.

Photo 2 of 2 : UCIP_SP_2016_39364_66160.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

LM Start	5.41	Rating **	M	Issue No.	46 (cont)
LM End	5.41	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_36517_66167.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36517_66166.jpg



Flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

LM Start	6.03	Rating **	M	Issue No.	47 (cont)
LM End	6.03	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_36518_66171.jpg



View of landward side.

Photo 2 of 2 : UCIP_SP_2016_36518_66170.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	6.47	Rating **	M	Issue No.	29
LM End	6.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.248210 °	37.248210 °
				-120.823120 °	-120.823120 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:36519
DS_ID:19670
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 7.7 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.50).
FS Date: 5/1/2014

LM Start	6.47	Rating **	M	Issue No.	29 (cont)
LM End	6.47	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_36519_66173.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36519_66172.jpg



Crossing and flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

LM Start	7.02	Rating **	M	Issue No.	33
LM End	7.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240333 °	37.240333 °
				-120.821490 °	-120.821490 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39365
DS_ID:19671
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Pipe extension visible on landward side--need to contact owner for additional information about extension/modification.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 12.6 feet below the crown. Flap gate on the waterward end. Brass cap No. 125 BM on headwall on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.05).
FS Date: 5/1/2014

LM Start	7.02	Rating **	M	Issue No.	33 (cont)
LM End	7.02	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39365_66178.jpg



View of landward side.

Photo 2 of 2 : UCIP_SP_2016_39365_66177.jpg



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

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/19/2016 05/19/2016	Richard Willoughby

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

LM Start	7.74	Rating **	M	Issue No.	30 (cont)
LM End	7.74	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_36521_66183.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36521_66182.jpg



View of 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**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

LM Start	7.87	Rating **	M	Issue No.	17
LM End	13.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.231291 °	37.172165 °
				-120.811871 °	-120.761208 °
DWR ID	DWR_NA0010_02B_s_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_120_17_20160523_00006.jpg



Looking at typical view of landward slope.

LM Start	7.87	Rating **	M	Issue No.	18
LM End	13.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.231291 °	37.172166 °
				-120.811871 °	-120.761209 °
DWR ID	DWR_NA0010_02B_s_2016_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_120_18_20160523_00007.jpg



Looking north at typical view of waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

No Photos

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

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

No Photos

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

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

No Photos

LM Start	9.76	Rating **	M	Issue No.	5
LM End	9.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.218959 °	37.218959 °
				-120.784356 °	-120.784356 °
DWR ID	DWR_NA0010_02B_s_2016_5				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree limbs on landward toe.					

Photo 1 of 1 : SP_2016_NA0010_120_5_20160523_00008.jpg



Looking northwest at broken tree limb on landward toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

No Photos

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

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

Photo 1 of 1 : SP_2016_NA0010_120_14_20160512_00005.jpg



Looking at prunings on landward slope.

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

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

No Photos

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

Photo 1 of 2 : SP_2016_NA0010_120_1_20160512_00001.jpg



Looking southwest at tree limb on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

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

Photo 2 of 2 : SP_2016_NA0010_120_1_20160512_00002.jpg



Looking southwest at tree limb on waterward slope.

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

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/19/2016 05/20/2016	Richard Willoughby

LM Start	13.42	Rating **	M	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					

No Photos

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

No Photos

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	7
LM End	2.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.111700 °	37.088992 °
				-120.587580 °	-120.566894 °
DWR ID	DWR_NA0010_03_s _ 2016_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_121_7_20160523_00012.jpg



Looking east at veg on waterward slope.

LM Start	0.00	Rating **	M	Issue No.	5
LM End	2.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.111699 °	37.088993 °
				-120.587580 °	-120.566895 °
DWR ID	DWR_NA0010_03_s _ 2016_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_121_5_20160523_00013.jpg



Looking west at landward slope.

LM Start	0.19	Rating **	M	Issue No.	67
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.109013 °	37.109013 °
				-120.587799 °	-120.587799 °
DWR ID	DWR_NA0010_03_s _ 2015_67				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes noted at landward toe.					

No Photos

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	05/18/2016 05/18/2016	Richard Willoughby

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

LM Start	0.42	Rating **	M	Issue No.	68 (cont)
LM End	0.42	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_34083_61941.jpg



Concrete structure and flap gate visible on waterward side.

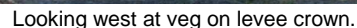
Photo 2 of 2 : UCIP_SP_2016_34083_61940.jpg



View of waterward side.

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

Lower San Joaquin Levee District



LM Start	1.54	Rating **	M	Issue No.	65
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.094270 °	37.094270 °
				-120.573112 °	-120.573112 °
DWR ID	DWR_NA0010_03_s _2015_65				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	05/18/2016 05/18/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_39371_66252.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_SP_2016_39371_66254.jpg



Concrete structure located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	05/18/2016 05/18/2016	Richard Willoughby

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

Photo 1 of 2 : UCIP_SP_2016_36543_66281.jpg



Slide gate and concrete structure located on waterward slope.

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

Photo 2 of 2 : UCIP_SP_2016_36543_66282.jpg



View of walkway and berm on waterward side.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	11	
LM End	1.41	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.112579 °		37.097555 °
				-120.589106 °		-120.578130 °
DWR ID	DWR_NA0010_04_s_2016_11					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

Photo 1 of 1 : SP_2016_NA0010_122_11_20160523_00026.jpg



Looking southeast at landward slope.

LM Start	0.00	Rating **	A	Issue No.	12
LM End	1.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.112579 °	37.097555 °
				-120.589106 °	-120.578130 °
DWR ID	DWR_NA0010_04_s_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_122_12_20160523_00025.jpg



Looking north at waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

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

LM Start	0.03	Rating **	M	Issue No.	17 (cont)
LM End	0.03	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_40529_61969.jpg



View of concrete structure located on landward side.

Photo 2 of 2 : UCIP_SP_2016_40529_61968.jpg



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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	13
LM End	0.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112348 °	37.112348 °
				-120.589581 °	-120.589581 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36875					
DS_ID:24856					
EP_NO: 5024					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gates blocked by sediment. Recommend contacting owner to determine status of crossing. Crossing appears to be abandoned.					
FIELD_STRUCT_DESC: [San Joaquin River Diversion Structure] 2 of 4: 72x60-inch R.C.B.C. through the levee, 21.0 feet below the crown. Slide gates on the waterward side. Concrete headwalls on both sides. Landward slope cobble revetted. Flashboards can be seen on the downstream side of the structure.					
FS Date: 4/17/2014					

LM Start	0.04	Rating **	M	Issue No.	13 (cont)
LM End	0.04	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_36875_67308.jpg



View of concrete structure located on landward side.

Photo 2 of 2 : UCIP_SP_2016_36875_67307.jpg



View of levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	15
LM End	0.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112336 °	37.112336 °
				-120.589624 °	-120.589624 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36877					
DS_ID:24858					
EP_NO: 5024					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gates blocked by sediment. Recommend contacting owner to determine status of crossing. Crossing appears to be abandoned.					
FIELD_STRUCT_DESC: [San Joaquin River Diversion Structure] 4 of 4: 72x60-inch R.C.B.C. through the levee, 21.0 feet below the crown. Slide gates on the waterward side. Concrete headwalls on both sides. Landward slope cobble revetted. Flashboards can be seen on the downstream side of the structure.					
FS Date: 4/17/2014					

LM Start	0.04	Rating **	M	Issue No.	15 (cont)
LM End	0.04	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_36877_67328.jpg



View of concrete structure located on landward side.

Photo 2 of 2 : UCIP_SP_2016_36877_67327.jpg



View of levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	16
LM End	0.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.109933 °	37.109933 °
				-120.590689 °	-120.590689 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34093 DS_ID:19695 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment and debris blocking concrete headwall located on waterward side. During inspection water was flowing from landward side to waterward side. Recommend removing sediment to confirm condition of flap gate and pipe. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 18.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both sides. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.27). FS Date: 4/17/2014					

LM Start	0.24	Rating **	M	Issue No.	16 (cont)
LM End	0.24	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_34093_61982.jpg



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

Photo 2 of 2 : UCIP_SP_2016_34093_61981.jpg



Sediment blocking flap gate located on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

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

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

Photo 1 of 3 : SP_2016_NA0010_122_3_20160512_00001.jpg



Looking north at irrigation ditch at landside toe.

Photo 2 of 3 : SP_2016_NA0010_122_3_20160512_00002.jpg



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

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

Photo 3 of 3 : SP_2016_NA0010_122_3_20160512_00003.jpg



Looking north at irrigation ditch at landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.54	Rating **	M	Issue No.	4
LM End	1.41	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.106025 °	37.097556 °
				-120.588746 °	-120.578129 °
DWR ID	DWR_NA0010_04_s_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control annual weeds on levee crown.					

Photo 1 of 1 : SP_2016_NA0010_122_4_20160523_00027.jpg



Looking north at levee crown.

LM Start	1.34	Rating **	M	Issue No.	18
LM End	1.34	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.095274 °	37.095274 °
				-120.577959 °	-120.577959 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40530 DS_ID:19975 EP_NO: 3416 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm if crossing is still in use. Need to contact owner to confirm status. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe, encased in 6-inches of reinforced concrete through the levee. Concrete cutoff wall at center of levee. Pumping plant on the waterward bank. Pump and irrigation pipe retained under Permit No. 3416 (1964). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_40530_61987.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.34	Rating **	M	Issue No.	18 (cont)
LM End	1.34	Issue Type +	En	Location *	CR
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 2 of 2 : UCIP_SP_2016_40530_61988.jpg



Overview of waterward side and levee crown at crossing.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	81
LM End	34.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.279069 °	36.978531 °
				-120.824250 °	-120.367994 °
DWR ID	DWR_NA0010_05_s _ 2016_81				
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.	79
LM End	34.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.279069 °	36.978532 °
				-120.824249 °	-120.367994 °
DWR ID	DWR_NA0010_05_s _ 2016_79				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	0.08	Rating **	M	Issue No.	1326
LM End	0.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.278174 °	37.278174 °
				-120.823465 °	-120.823465 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39563 DS_ID:19756 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris blocking landward headwall--recommend clearing. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.07). FS Date: 4/9/2014					

LM Start	0.08	Rating **	M	Issue No.	1326 (cont)
LM End	0.08	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39563_60921.jpg



Pipe, flapgate, and concrete headwall on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39563_60920.jpg



Pipe, flapgate, and concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	0.31	Rating **	U	Issue No.	1334
LM End	0.31	Issue Type +	En	Location *	LS
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:39315 DS_ID:24867 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe is open on both ends and levee has been degraded at this location. No permit identified for this crossing. FIELD_STRUCT_DESC: 6'X9' CMP stormdrain through the levee 4.5-feet below the crown. Pipe is CMP on WS toe and Steel on the LS toe. The levee is degraded at this location. FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_SP_2016_39315_71469.jpg



Pipe through levee where levee has been degraded.

Photo 2 of 2 : UCIP_SP_2016_39315_71467.jpg



Pipe on WS toe.

LM Start	0.31	Rating **	U	Issue No.	1334 (cont)
LM End	0.31	Issue Type +	En	Location *	LS

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

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1327
LM End	0.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.273945 °	37.273945 °
				-120.815835 °	-120.815835 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39584 DS_ID:19757 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess debris on landward headwall--recommend clearing. FIELD_STRUCT_DESC: 30-inch C.M. stormdrain pipe through the levee, 7.5 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.59). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_SP_2016_39584_60926.jpg



Concrete headwall, pipe, and flapgate on WS toe.

LM Start	0.60	Rating **	M	Issue No.	1327 (cont)
LM End	0.60	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39584_60925.jpg



Concrete headwall, pipe, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	1328
LM End	0.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.273398 °	37.273398 °
				-120.815082 °	-120.815082 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39585 DS_ID:19758 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the levee, 13.2 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. Cobble revetment around both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.65). FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_SP_2016_39585_60931.jpg



Concrete headwall visible off WS toe.

LM Start	0.65	Rating **	M	Issue No.	1328 (cont)
LM End	0.65	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39585_60929.jpg



Pipe, flapgate, and headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

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

Photo 1 of 1 : SP_2016_NA0010_123_80_20160512_00008.jpg



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

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

Photo 1 of 1 : SP_2016_NA0010_123_1308_20160512_00011.jpg



Looking at dead tree limbs on landward toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	2.84	Rating **	M	Issue No.	1319
LM End	2.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.256810 °	37.256810 °
				-120.785113 °	-120.785113 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33709					
DS_ID:19809					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Log partially blocking inlet at LS toe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 15.0 feet below the crown. Flap gate on the waterward end.					
Concrete "U" headwalls on both ends. (USACE-1967). This entry					
matches the Drainage or Irrigation Structure referenced in O&M manual					
(HLM 2.85).					
FS Date: 4/9/2014					

Photo 1 of 2 : UCIP_SP_2016_33709_60943.jpg



Concrete headwall at outlet on WS toe.

LM Start	2.84	Rating **	M	Issue No.	1319 (cont)
LM End	2.84	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_33709_60941.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	3.20	Rating **	M	Issue No.	6
LM End	3.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.256635 °	37.256635 °
				-120.778935 °	-120.778935 °
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.					

Photo 1 of 1 : SP_2016_NA0010_123_6_20160512_00003.jpg



Looking at typical view of rodent holes on waterward slope.

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_2016_NA0010_123_7_20160512_00004.jpg



Looking south at unauthorized ramp on waterside slope.

LM Start	3.20	Rating **	M	Issue No.	7 (cont)
LM End	3.20	Issue Type +	En	Location *	WS

Photo 2 of 3 : SP_2016_NA0010_123_7_20160512_00005.jpg



Looking northwest at unauthorized ramp on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

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

Photo 3 of 3 : SP_2016_NA0010_123_7_20160512_00006.jpg



Looking northwest at unauthorized ramp on waterside slope.

LM Start	3.34	Rating **	M	Issue No.	1337
LM End	3.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.255258 °	37.255258 °
				-120.776996 °	-120.776996 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43055 DS_ID:19810 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe corroded through at flapgate on WS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 14.7 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.33). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_SP_2016_43055_60948.jpg



Concrete headwall at WS toe.

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

Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	3.68	Rating **	M	Issue No.	1329 (cont)
LM End	3.68	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.252308 °	37.252308 °
				-120.768038 °	-120.768038 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39586 DS_ID:19811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.67). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_SP_2016_39586_61138.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	4.02	Rating **	M	Issue No.	1338
LM End	4.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.248432 °	37.248432 °
				-120.764066 °	-120.764066 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39880 DS_ID:19769 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 16.0 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.02). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_SP_2016_39880_61142.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	4.02	Rating **	M	Issue No.	1338 (cont)
LM End	4.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.248432 °	37.248432 °
				-120.764066 °	-120.764066 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39880 DS_ID:19769 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 16.0 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.02). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_SP_2016_39880_61143.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	4.27	Rating **	M	Issue No.	1330
LM End	4.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.246008 °	37.246008 °
				-120.760706 °	-120.760706 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39588 DS_ID:19770 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.6-feet below the crown. Flap gate on the waterward end. Concrete head wall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.27). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_SP_2016_39588_61146.jpg



Pipe, headwall, and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	4.89	Rating **	M	Issue No.	1332 (cont)
LM End	4.89	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240978 °	37.240978 °
				-120.751613 °	-120.751613 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39590 DS_ID:19772 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.3-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.89). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_SP_2016_39590_62088.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	5.15	Rating **	M	Issue No.	1333
LM End	5.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240607 °	37.240607 °
				-120.746916 °	-120.746916 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39591 DS_ID:19773 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.15). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_SP_2016_39591_62091.jpg



Headwall, flapgate, and pipe on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	5.15	Rating **	M	Issue No.	1333 (cont)
LM End	5.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.240607 °	37.240607 °
				-120.746916 °	-120.746916 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39591 DS_ID:19773 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.15). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_SP_2016_39591_62093.jpg



Headwall, flapgate, and pipe on WS toe.

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

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	6.59	Rating **	M	Issue No.	1309
LM End	6.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.229682 °	37.229682 °
				-120.726305 °	-120.726305 °
DWR ID	DWR_NA0010_05_s _ 2015_1309				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landward slope damage caused by animal foot traffic.					

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

Photo 1 of 2 : SP_2016_NA0010_123_1309_20160512_00012.jpg



Looking north at damaged landward slope.

Photo 2 of 2 : SP_2016_NA0010_123_1309_20160512_00013.jpg



Looking east at damaged landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	7.36	Rating **	M	Issue No.	1350
LM End	7.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.224560 °	37.224560 °
				-120.714057 °	-120.714057 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39592 DS_ID:19761 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.36). FS Date: 4/22/2014					

LM Start	7.36	Rating **	M	Issue No.	1350 (cont)
LM End	7.36	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39592_62111.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39592_62113.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	7.58	Rating **	M	Issue No.	1316
LM End	7.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.221465 °	37.221465 °
				-120.713780 °	-120.713780 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34170 DS_ID:19762 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. Slide gate rusted shut on WS slope. Unable to locate inlet or outlet. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 20.4 feet below the crown. Slide gate in 36-inch C.M. pipe riser unit in waterward slope. Concrete "U" headwalls on each end (not found 2014). (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.58). FS Date: 4/22/2014					

LM Start	7.58	Rating **	M	Issue No.	1316 (cont)
LM End	7.58	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_34170_62116.jpg



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

Photo 2 of 2 : UCIP_SP_2016_34170_62115.jpg



Slide gate in CMP riser on WS slope. No outlet or pipe found 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	8.08	Rating **	M	Issue No.	4
LM End	8.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.213600 °	37.213600 °
				-120.706630 °	-120.706630 °
DWR ID	DWR_NA0010_05_s _ 2012_4				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	8.46	Rating **	M	Issue No.	1317
LM End	8.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.209606 °	37.209606 °
				-120.702069 °	-120.702069 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34265 DS_ID:19763 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe filled with silt on LS toe and should be cleared. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 16.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwalls on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.44). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_SP_2016_34265_62182.jpg



Headwall, flapgate, and pipe 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	10.06	Rating **	M	Issue No.	1318
LM End	10.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.194736 °	37.194736 °
				-120.680116 °	-120.680116 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34273 DS_ID:19767 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slidegate actuator appears bent and may not work properly (WS slope). FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 15.0-feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.05). FS Date: 4/22/2014					

LM Start	10.06	Rating **	M	Issue No.	1318 (cont)
LM End	10.06	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_34273_62201.jpg



Slidegate in CMP riser on WS slope.

Photo 2 of 2 : UCIP_SP_2016_34273_62202.jpg



Concrete headwall and pipe on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

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

Photo 1 of 1 : SP_2016_NA0010_123_1_20160523_00206.jpg



Looking south on landward shoulder T-poles and electric fence.

LM Start	12.89	Rating **	M	Issue No.	1351
LM End	12.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.175816 °	37.175816 °
				-120.640865 °	-120.640865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39593 DS_ID:19707 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.2-feet below the crown. Flap gate on the waterward end. Concrete headwalls on the landward end with flashboards. Concrete saddle and apron on the waterward end with a flapgate. Metal screen at LS toe inlet (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.87). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_SP_2016_39593_62240.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	12.89	Rating **	M	Issue No.	1351 (cont)
LM End	12.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.175816 °	37.175816 °
				-120.640865 °	-120.640865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39593					
DS_ID:19707					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 10.2-feet below the crown. Flap gate on the waterward end. Concrete headwalls on the landward end with flashboards. Concrete saddle and apron on the waterward end with a flapgate. Metal screen at LS toe inlet (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.87).					
FS Date: 4/22/2014					

Photo 2 of 2 : UCIP_SP_2016_39593_62241.jpg



Headwall, flapgate, and pipe on WS toe.

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 landward toe.					

Photo 1 of 1 : SP_2016_NA0010_123_2_20160523_00207.jpg



Looking west at down tree at landward toe.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	13.42	Rating **	M	Issue No.	1321
LM End	13.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.171523 °	37.171523 °
				-120.633442 °	-120.633442 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34288 DS_ID:19708 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion around headwall on the WS toe and there are animal burrows on both slopes. FIELD_STRUCT_DESC: 48-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Flashboard attachment in concrete "U" headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.40). FS Date: 4/22/2014					

LM Start	13.42	Rating **	M	Issue No.	1321 (cont)
LM End	13.42	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_34288_62244.jpg



Headwall and pipe on LS toe.

Photo 2 of 2 : UCIP_SP_2016_34288_62243.jpg



Headwall, flapgate, and pipe on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

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

Photo 1 of 1 : SP_2016_NA0010_123_1311_20160512_00015.jpg



Looking east at a fallen tree limbs on waterward slope.

LM Start	13.72	Rating **	M	Issue No.	1325
LM End	13.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.168202 °	37.168202 °
				-120.629886 °	-120.629886 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34824 DS_ID:19709 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible and may need to have silt removed from outlet on WS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 16-feet below the crown. Flap gate on the waterward end. Slidegate on concrete headwall at LS toe. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.72). FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_SP_2016_34824_62624.jpg



Slide gate at concrete headwall on LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	13.72	Rating **	M	Issue No.	1325 (cont)
LM End	13.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.168202°	37.168202°
				-120.629886°	-120.629886°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34824 DS_ID:19709 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible and may need to have silt removed from outlet on WS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 16-feet below the crown. Flap gate on the waterward end. Slidegate on concrete headwall at LS toe. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.72). FS Date: 4/22/2014					

Photo 2 of 2 : UCIP_SP_2016_34824_62623.jpg



Walkway to gatevalve on LS shoulder.

LM Start	15.11	Rating **	M	Issue No.	1320
LM End	15.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.156805 °	37.156805 °
				-120.609513 °	-120.609513 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34664					
DS_ID:19712					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Minor erosion at headwall on WS toe.					
FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the					
levee, 11.9 feet below the crown. Flap gate on the waterward end.					
Concrete headwall on both ends. (USACE-1967). This entry matches					
the Drainage or Irrigation Structure referenced in O&M manual (HLM					
15.09).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_34664_62454.jpg



Headwall and inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	15.11	Rating **	M	Issue No.	1320 (cont)	
LM End	15.11	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.156805 °	37.156805 °	
				-120.609513 °	-120.609513 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34664 DS_ID:19712 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor erosion at headwall on WS toe. FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the levee, 11.9 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.09). FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_SP_2016_34664_62453.jpg



Headwall and inlet on LS toe.

LM Start	15.76	Rating **	M	Issue No.	1352
LM End	15.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.150012 °	37.150012 °
				-120.601330 °	-120.601330 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39595 DS_ID:19713 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. Stormdrain pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.74). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39595_62459.jpg



Headwall, pipe, and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	15.76	Rating **	M	Issue No.	1352 (cont)
LM End	15.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.150012 °	37.150012 °
				-120.601330 °	-120.601330 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39595 DS_ID:19713 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. Stormdrain pipe through the levee, 11.0 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.74). FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_SP_2016_39595_62456.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	15.81	Rating **	M	Issue No.	1353
LM End	15.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.149381 °	37.149381 °
				-120.600761 °	-120.600761 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39596 DS_ID:19715 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation at inlet on LS toe should be cleared. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete head wall on the landward end. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.80). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39596_62464.jpg



Headwall, pipe, and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	15.81	Rating **	M	Issue No.	1353 (cont)	
LM End	15.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.149381 °		37.149381 °
				-120.600761 °		-120.600761 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39596 DS_ID:19715 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation at inlet on LS toe should be cleared. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete head wall on the landward end. Concrete saddle and apron on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.80). FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_SP_2016_39596_62467.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	16.68	Rating **	M	Issue No.	1322
LM End	16.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.138760 °	37.138760 °
				-120.592393 °	-120.592393 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34725 DS_ID:19716 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe heavily silted on LS toe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.5-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.67). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_34725_62469.jpg



Headwall, flapgate, and pipe visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	16.68	Rating **	M	Issue No.	1322 (cont)
LM End	16.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.138760 °	37.138760 °
				-120.592393 °	-120.592393 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34725					
DS_ID:19716					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe heavily silted on LS toe.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 10.5-feet below the crown. Flap gate on the waterward end.					
Concrete headwall on both ends. (USACE-1967). This entry matches the					
Drainage or Irrigation Structure referenced in O&M manual (HLM					
16.67).					
FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_SP_2016_34725_62471.jpg



Headwall, flapgate, and pipe visible on WS toe.

LM Start	17.22	Rating **	M	Issue No.	1354
LM End	17.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.132211 °	37.132211 °
				-120.587106 °	-120.587106 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39597 DS_ID:19717 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.20). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39597_62481.jpg



Headwall, flapgate, and pipe visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	17.22	Rating **	M	Issue No.	1354 (cont)	
LM End	17.22	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.132211 °		37.132211 °
				-120.587106 °		-120.587106 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39597						
DS_ID:19717						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.						
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 12-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.20).						
FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_SP_2016_39597_62483.jpg



Headwall, flapgate, and pipe visible on WS toe.

LM Start	17.54	Rating **	M	Issue No.	1355
LM End	17.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.127843 °	37.127843 °
				-120.585245 °	-120.585245 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39599					
DS_ID:19743					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.					
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.52).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39599_62485.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	17.54	Rating **	M	Issue No.	1355 (cont)
LM End	17.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.127843 °	37.127843 °
				-120.585245 °	-120.585245 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39599 DS_ID:19743 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.52). FS Date: 4/23/2014					

Photo 2 of 2 : UCIP_SP_2016_39599_62486.jpg



Pipe and headwall visible on LS toe.

LM Start	18.09	Rating **	M	Issue No.	1323
LM End	18.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.120309 °	37.120309 °
				-120.582041 °	-120.582041 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34747					
DS_ID:19745					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Animal burrows in levee on both slopes.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the					
levee, 12.4-feet below the crown. Flap gate on the waterward end.					
Concrete headwall on both ends. (USACE-1967). This entry matches					
the Drainage or Irrigation Structure referenced in O&M manual (HLM					
18.07).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_34747_62494.jpg



Headwall, pipe, and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	18.09	Rating **	M	Issue No.	1323 (cont)	
LM End	18.09	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.120309 °	37.120309 °	
				-120.582041 °	-120.582041 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34747						
DS_ID:19745						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Animal burrows in levee on both slopes.						
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the						
levee, 12.4-feet below the crown. Flap gate on the waterward end.						
Concrete headwall on both ends. (USACE-1967). This entry matches the						
Drainage or Irrigation Structure referenced in O&M manual (HLM						
18.07).						
FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_SP_2016_34747_62495.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	18.70	Rating **	M	Issue No.	1356	
LM End	18.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.115472 °		37.115472 °
				-120.573628 °		-120.573628 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39600 DS_ID:19746 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.68). FS Date: 4/23/2014						

Photo 1 of 2 : UCIP_SP_2016_39600_62499.jpg



Headwall, pipe and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	18.70	Rating **	M	Issue No.	1356 (cont)	
LM End	18.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.115472 °	37.115472 °	
				-120.573628 °	-120.573628 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39600 DS_ID:19746 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.68). FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_SP_2016_39600_62498.jpg



Headwall, pipe and flapgate visible on WS toe.

LM Start	19.15	Rating **	M	Issue No.	1357
LM End	19.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.115466 °	37.115466 °
				-120.565467 °	-120.565467 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39601 DS_ID:19747 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.11). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39601_62504.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	19.48	Rating **	M	Issue No.	1358 (cont)	
LM End	19.48	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.113542 °		37.113542 °
				-120.560389 °		-120.560389 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39602						
DS_ID:19777						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe.						
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.0-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.46).						
FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_SP_2016_39602_62516.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	19.51	Rating **	M	Issue No.	1335
LM End	19.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113172 °	37.113172 °
				-120.560014 °	-120.560014 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39345 DS_ID:24868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Markers closer to the levee may be necessary to properly mark pipe crossing location. FIELD_STRUCT_DESC: Gasline of unknown diameter at unknown depth below the crown. CMP riser and gasline marker off LS toe. FS Date: 4/22/2014					

Photo 1 of 2 : UCIP_SP_2016_39345_71477.jpg



Gasline marker off LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	19.51	Rating **	M	Issue No.	1335 (cont)
LM End	19.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113172 °	37.113172 °
				-120.560014 °	-120.560014 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39345 DS_ID:24868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Markers closer to the levee may be necessary to properly mark pipe crossing location. FIELD_STRUCT_DESC: Gasline of unknown diameter at unknown depth below the crown. CMP riser and gasline marker off LS toe. FS Date: 4/22/2014					

Photo 2 of 2 : UCIP_SP_2016_39345_71476.jpg



Gasline marker off LS of opposite bank.

LM Start	19.52	Rating **	M	Issue No.	1359
LM End	19.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112953 °	37.112953 °
				-120.559943 °	-120.559943 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39603 DS_ID:19778 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.50). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39603_62519.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	19.52	Rating **	M	Issue No.	1359 (cont)	
LM End	19.52	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.112953 °	37.112953 °	
				-120.559943 °	-120.559943 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39603 DS_ID:19778 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.50). FS Date: 4/23/2014						

Photo 2 of 2 : UCIP_SP_2016_39603_62521.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	20.19	Rating **	M	Issue No.	1324
LM End	20.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.106149 °	37.106149 °
				-120.552538 °	-120.552538 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34759 DS_ID:19782 EP_NO: 13828 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: FIELD_STRUCT_DESC: *DELETE* NOT INSTALLED THROUGH THE LEVEE. 24-inch steel irrigation pipe through the levee, 4.0 feet below the crown. Pump missing from pad on the landward side. Steel cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landward shoulder. Pre-existing ditch runs from waterward toe to channel. Pipe extends from pump to the channel. Rock revetment on the cut slopes of the inlet channel. (Permit No. 13828-1988) FS Date: 4/23/2014					

Photo 1 of 1 : UCIP_SP_2016_34759_62537.jpg



Well head visible off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	20.65	Rating **	M	Issue No.	1360
LM End	20.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.100903 °	37.100903 °
				-120.547282 °	-120.547282 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39605 DS_ID:19784 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 10.5 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.59). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39605_62544.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	20.65	Rating **	M	Issue No.	1360 (cont)
LM End	20.65	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39605_62543.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	21.13	Rating **	M	Issue No.	1361
LM End	21.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.095603 °	37.095603 °
				-120.541593 °	-120.541593 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39606 DS_ID:19785 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.8-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.08). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39606_62549.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	21.13	Rating **	M	Issue No.	1361 (cont)
LM End	21.13	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39606_62551.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	21.48	Rating **	M	Issue No.	1365	
LM End	21.48	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.091755 °		37.091755 °
				-120.537414 °		-120.537414 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39614						
DS_ID:19786						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to						
identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct						
proper inspection of structure.						
FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the						
levee, 12.7-feet below the crown. Flap gate on the waterward end.						
Concrete headwall on the landward end. Concrete "U" headwall on the						
waterward end. (USACE-1967). This entry matches the Drainage or						
Irrigation Structure referenced in O&M manual (HLM 21.42).						
FS Date: 4/23/2014						

Photo 1 of 2 : UCIP_SP_2016_39614_62555.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	21.48	Rating **	M	Issue No.	1365 (cont)
LM End	21.48	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39614_62556.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	21.91	Rating **	M	Issue No.	1339	
LM End	21.91	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.087525 °		37.087525 °
				-120.532827 °		-120.532827 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39883 DS_ID:19787 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.4-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.81). FS Date: 4/23/2014						

Photo 1 of 2 : UCIP_SP_2016_39883_62559.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	21.91	Rating **	M	Issue No.	1339 (cont)
LM End	21.91	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39883_62558.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	21.95	Rating **	M	Issue No.	1362
LM End	21.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.087108 °	37.087108 °
				-120.532374 °	-120.532374 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39610 DS_ID:19788 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.7-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.85). FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39610_62586.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	21.95	Rating **	M	Issue No.	1362 (cont)
LM End	21.95	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39610_62588.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	22.28	Rating **	M	Issue No.	1363
LM End	22.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.083410 °	37.083410 °
				-120.528356 °	-120.528356 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39611 DS_ID:19789 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.19). FS Date: 4/23/2014					

LM Start	22.28	Rating **	M	Issue No.	1363 (cont)
LM End	22.28	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39611_62591.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39611_62593.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	22.55	Rating **	M	Issue No.	1364
LM End	22.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.080486 °	37.080486 °
				-120.525180 °	-120.525180 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39613
DS_ID:19790
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.4-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.79).
FS Date: 4/23/2014

LM Start	22.55	Rating **	M	Issue No.	1364 (cont)
LM End	22.55	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39613_62596.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39613_62598.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	22.89	Rating **	M	Issue No.	1366
LM End	22.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.076830 °	37.076830 °
				-120.521116 °	-120.521116 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39616 DS_ID:19791 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 12.2-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.94). FS Date: 4/23/2014					

LM Start	22.89	Rating **	M	Issue No.	1366 (cont)
LM End	22.89	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39616_62601.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39616_62600.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	23.03	Rating **	M	Issue No.	1367
LM End	23.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.075387 °	37.075387 °
				-120.519406 °	-120.519406 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39617					
DS_ID:19792					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.1-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 22.79).					
FS Date: 4/23/2014					

Photo 1 of 2 : UCIP_SP_2016_39617_62606.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	23.03	Rating **	M	Issue No.	1367 (cont)
LM End	23.03	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39617_62608.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	23.17	Rating **	M	Issue No.	1368
LM End	23.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.073901 °	37.073901 °
				-120.517651 °	-120.517651 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39618 DS_ID:19793 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris blocking closure of outlet. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.5-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. FS Date: 4/23/2014					

LM Start	23.17	Rating **	M	Issue No.	1368 (cont)
LM End	23.17	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39618_62611.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39618_62610.jpg



Headwall, pipe, and flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	23.72	Rating **	M	Issue No.	1370
LM End	23.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.067799 °	37.067799 °
				-120.511093 °	-120.511093 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39621 DS_ID:19796 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 23.62). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39621_59272.jpg



Concrete headwall on WS toe.

LM Start	23.72	Rating **	M	Issue No.	1370 (cont)
LM End	23.72	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39621_59270.jpg



Flapgate on Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	24.02	Rating **	M	Issue No.	1369
LM End	24.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.064494 °	37.064494 °
				-120.507531 °	-120.507531 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39620 DS_ID:19797 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor sediment/debris buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 36-inch C.M. stormdrain pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 23.85). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39620_59282.jpg



Concrete headwall on WS toe.

LM Start	24.02	Rating **	M	Issue No.	1369 (cont)
LM End	24.02	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39620_59280.jpg



Flapgate at Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	24.28	Rating **	M	Issue No.	1376
LM End	24.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.061724 °	37.061724 °
				-120.504512 °	-120.504512 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46850 DS_ID:19798 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 24.18). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_SP_2016_46850_59287.jpg



Concrete headwall at WS toe.

LM Start	24.28	Rating **	M	Issue No.	1376 (cont)
LM End	24.28	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_46850_59285.jpg



Flapgate at concrete headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	24.56	Rating **	M	Issue No.	1371
LM End	24.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.058673 °	37.058673 °
				-120.501238 °	-120.501238 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39623 DS_ID:19799 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 24.46). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39623_59292.jpg



Concrete headwall on WS toe.

LM Start	24.56	Rating **	M	Issue No.	1371 (cont)
LM End	24.56	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39623_59290.jpg



Flapgate at Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_32789_59311.jpg



Concrete headwall and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_32789_59312.jpg



Concrete headwall and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	25.59	Rating **	M	Issue No.	9
LM End	25.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.047630 °	37.047042 °
				-120.488530 °	-120.488092 °
DWR ID	DWR_NA0010_05_s _ 2012_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	25.61	Rating **	M	Issue No.	1372
LM End	25.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.047455 °	37.047455 °
				-120.488443 °	-120.488443 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39625 DS_ID:19804 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. pipe through the levee, 12.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.51). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39625_59316.jpg



Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	25.61	Rating **	M	Issue No.	1372 (cont)	
LM End	25.61	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.047455 °	37.047455 °	
				-120.488443 °	-120.488443 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39625 DS_ID:19804 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. pipe through the levee, 12.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.51). FS Date: 3/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39625_59317.jpg



Flapgate on concrete headwall at WS toe.

LM Start	25.63	Rating **	M	Issue No.	1373
LM End	25.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.047170 °	37.047170 °
				-120.488222 °	-120.488222 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39626 DS_ID:19805 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. stormdrain pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.53). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39626_59321.jpg



Flapgate on headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	25.63	Rating **	M	Issue No.	1373 (cont)
LM End	25.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.047170 °	37.047170 °
				-120.488222 °	-120.488222 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39626 DS_ID:19805 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch C.M. stormdrain pipe through the levee, 12.1 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 25.53). FS Date: 3/25/2014					

Photo 2 of 2 : UCIP_SP_2016_39626_59320.jpg



Concrete headwall on LS toe.

LM Start	26.20	Rating **	M	Issue No.	1374
LM End	26.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.040070 °	37.040070 °
				-120.482796 °	-120.482796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39627 DS_ID:19806 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.11). FS Date: 3/25/2014					

Photo 1 of 2 : UCIP_SP_2016_39627_59341.jpg



Concrete headwall on WS toe.

* 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	

Lower San Joaquin Levee District

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	26.95	Rating **	M	Issue No.	1375 (cont)	
LM End	26.95	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.032669 °	37.032669 °	
				-120.473901 °	-120.473901 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39628 DS_ID:19808 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe has heavy silt buildup visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 11.4 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 26.85). FS Date: 3/25/2014						

Photo 2 of 2 : UCIP_SP_2016_39628_59349.jpg



Concrete headwall on LS toe.

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

Photo 1 of 2 : UCIP_SP_2016_32806_59353.jpg



Concrete headwall at WS toe.

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

Lower San Joaquin Levee District

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_32823_59383.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	29.05	Rating **	U	Issue No.	1315
LM End	29.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.028295 °	37.028295 °
				-120.439275 °	-120.439275 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32830 DS_ID:19752 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Slide gate will not close due to 24-inch PVC pipe sleeved through pipe. Also slide gate rails rusted beyond use. FIELD_STRUCT_DESC: 48-inch concrete irrigation siphon pipe through the levee, 12.1 feet below the crown. Concrete "U" headwall on inlet structure on the landward end. Slide gate mounted on headwall. 36-inch C.M. pipe riser unit with slide gate, 8.0 feet upstream from siphon on the landward side. 24-inch pipe from this unit enters siphon behind inlet structure. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 28.95). [Rodunder Siphon Structure] FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_SP_2016_32830_59410.jpg



Slide gate mounted to concrete headwall on LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	29.05	Rating **	U	Issue No.	1315 (cont)	
LM End	29.05	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.028295 °	37.028295 °	
				-120.439275 °	-120.439275 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32830 DS_ID:19752 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Slide gate will not close due to 24-inch PVC pipe sleeved through pipe. Also slide gate rails rusted beyond use. FIELD_STRUCT_DESC: 48-inch concrete irrigation siphon pipe through the levee, 12.1 feet below the crown. Concrete "U" headwall on inlet structure on the landward end. Slide gate mounted on headwall. 36-inch C.M. pipe riser unit with slide gate, 8.0 feet upstream from siphon on the landward side. 24-inch pipe from this unit enters siphon behind inlet structure. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 28.95). [Rodunder Siphon Structure] FS Date: 3/27/2014						

Photo 2 of 2 : UCIP_SP_2016_32830_59409.jpg



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

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	29.58	Rating **	M	Issue No.	1340
LM End	29.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.021497 °	37.021497 °
				-120.434602 °	-120.434602 °
DWR ID					

Comment Code

Inspector Comment

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

LM Start	29.58	Rating **	M	Issue No.	1340 (cont)
LM End	29.58	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39884_59414.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39884_59413.jpg



Flapgate on Concrete headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	29.68	Rating **	M	Issue No.	171
LM End	29.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.020272 °	37.018712 °
				-120.433737 °	-120.432682 °
DWR ID	DWR_NA0010_05_s _ 2014_171				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Waterside erosion caused by livestock.					

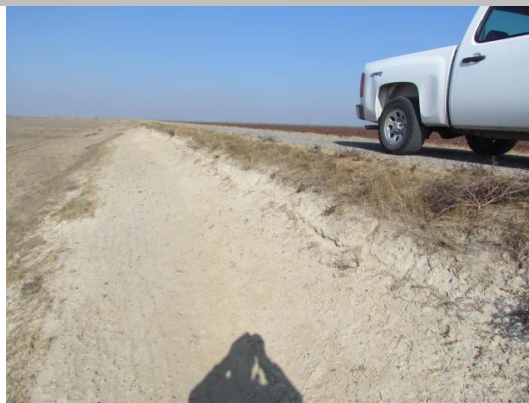
LM Start	29.68	Rating **	M	Issue No.	171 (cont)
LM End	29.80	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_NA0010_123_171_20160512_00009.jpg



Looking south at erosion caused by livestock on landside slope.

Photo 2 of 2 : SP_2016_NA0010_123_171_20160512_00010.jpg



Looking south 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	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	29.82	Rating **	M	Issue No.	1341
LM End	29.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.018505 °	37.018505 °
				-120.432544 °	-120.432544 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39631 DS_ID:19754 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 12.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 29.72). FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_SP_2016_39631_59424.jpg



Concrete headwall on WS toe.

LM Start	29.82	Rating **	M	Issue No.	1341 (cont)
LM End	29.82	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39631_59426.jpg



Flapgate on Concrete headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	29.89	Rating **	M	Issue No.	16
LM End	29.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.017540 °	37.017540 °
				-120.431955 °	-120.431955 °
DWR ID	DWR_NA0010_05_s _ 2012_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	30.14	Rating **	M	Issue No.	1342	
LM End	30.14	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.014471 °		37.014471 °
				-120.429759 °		-120.429759 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39632 DS_ID:19696 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square stormdrain R.C.B.C. through the levee, 13.1 feet below the crown. Concrete "U", headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.04). FS Date: 3/27/2014						

Photo 1 of 2 : UCIP_SP_2016_39632_59430.jpg



Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	31.06	Rating **	M	Issue No.	1343 (cont)	
LM End	31.06	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.004212 °	37.004212 °	
				-120.419178 °	-120.419178 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39633						
DS_ID:19697						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Some debris buildup at LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through the levee, 13.3 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.96).						
FS Date: 3/27/2014						

Photo 2 of 2 : UCIP_SP_2016_39633_59436.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	31.30	Rating **	M	Issue No.	1344
LM End	31.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.001754 °	37.001754 °
				-120.416254 °	-120.416254 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39643 DS_ID:19698 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation buildup at inlet on LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through levee, 13.4 feet below crown. Concrete "U" headwall on waterward end. Flap gate on waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.19). FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_SP_2016_39643_59439.jpg



Concrete headwall on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	31.30	Rating **	M	Issue No.	1344 (cont)	
LM End	31.30	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.001754 °		37.001754 °
				-120.416254 °		-120.416254 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39643 DS_ID:19698 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation buildup at inlet on LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through levee, 13.4 feet below crown. Concrete "U" headwall on waterward end. Flap gate on waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.19). FS Date: 3/27/2014						

Photo 2 of 2 : UCIP_SP_2016_39643_59440.jpg



Flapgate at concrete headwall on WS toe.

LM Start	31.80	Rating **	M	Issue No.	1345
LM End	31.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995029 °	36.995029 °
				-120.408914 °	-120.408914 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39645 DS_ID:19700 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.71). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39645_59686.jpg



Concrete headwall at channel on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	31.80	Rating **	M	Issue No.	1345 (cont)	
LM End	31.80	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.995029 °	36.995029 °	
				-120.408914 °	-120.408914 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39645						
DS_ID:19700						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 31.71).						
FS Date: 4/1/2014						

Photo 2 of 2 : UCIP_SP_2016_39645_59687.jpg



Flapgate on Concrete headwall at channel on WS toe.

LM Start	32.32	Rating **	M	Issue No.	1346
LM End	32.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.989435 °	36.989435 °
				-120.402626 °	-120.402626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39646 DS_ID:19701 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some silt buildup inside culvert. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 14.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 32.22). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39646_59690.jpg



Concrete headwall at inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	32.32	Rating **	M	Issue No.	1346 (cont)
LM End	32.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.989435 °	36.989435 °
				-120.402626 °	-120.402626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39646 DS_ID:19701 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some silt buildup inside culvert. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 14.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end with flashboard attachment. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 32.22). FS Date: 4/1/2014					

Photo 2 of 2 : UCIP_SP_2016_39646_59688.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	33.11	Rating **	M	Issue No.	1347
LM End	33.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.980861 °	36.980861 °
				-120.393116 °	-120.393116 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39647					
DS_ID:19702					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Debris buildup blocking landward headwall--recommend contacting owner to clear debris.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 12.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.01).					
FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39647_59697.jpg



Concrete headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	33.11	Rating **	M	Issue No.	1347 (cont)	
LM End	33.11	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.980861 °	36.980861 °	
				-120.393116 °	-120.393116 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39647 DS_ID:19702 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Debris buildup blocking landward headwall--recommend contacting owner to clear debris. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 12.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.01). FS Date: 4/1/2014						

Photo 2 of 2 : UCIP_SP_2016_39647_59699.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	33.81	Rating **	M	Issue No.	1348	
LM End	33.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.976808 °		36.976808 °
				-120.382593 °		-120.382593 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39648						
DS_ID:19703						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.9 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.72).						
FS Date: 4/1/2014						

Photo 1 of 2 : UCIP_SP_2016_39648_59701.jpg



Concrete headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	33.81	Rating **	M	Issue No.	1348 (cont)	
LM End	33.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.976808 °	36.976808 °	
				-120.382593 °	-120.382593 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39648						
DS_ID:19703						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.9 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 33.72).						
FS Date: 4/1/2014						

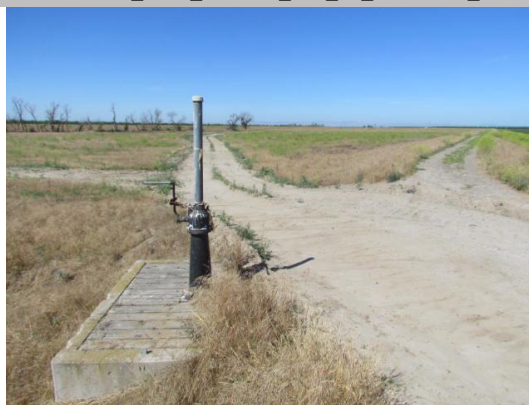
Photo 2 of 2 : UCIP_SP_2016_39648_59700.jpg



Flapgate on Concrete headwall at WS toe.

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

Photo 1 of 4 : SP_2016_NA0010_123_11_20160523_00209.jpg



Looking west at ramp on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	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			36.978555 °		36.978555 °
				-120.368467 °		-120.368467 °
DWR ID	DWR_NA0010_05_s _ 2012_11					
Comment Code						
RA : Ramp						
Inspector Comment						
Unauthorized ramp on waterside slope. Landowner cut unauthorized ramp on waterside slope and levee crown.						

LM Start	34.61	Rating **	M	Issue No.	11 (cont)
LM End	34.61	Issue Type +	En	Location *	WS

Photo 2 of 4 : SP_2016_NA0010_123_11_20160523_00208.jpg



Looking northwest at cut on levee crown.

Photo 3 of 4 : SP_2016_NA0010_123_11_20160523_00210.jpg



Looking west at cut on levee crown.

LM Start	34.61	Rating **	M	Issue No.	11 (cont)
LM End	34.61	Issue Type +	En	Location *	WS

Photo 4 of 4 : SP_2016_NA0010_123_11_20160512_00007.jpg



Looking southwest at unauthorized ramp on waterward slope. (2015)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	05/16/2016 05/18/2016	Richard Willoughby

LM Start	34.61	Rating **	M	Issue No.	1349
LM End	34.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.978593 °	36.978593 °
				-120.368511 °	-120.368511 °
DWR ID					

Comment Code

Inspector Comment

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

LM Start	34.61	Rating **	M	Issue No.	1349 (cont)
LM End	34.61	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39649_59706.jpg



Slide gate in concrete riser on WS shoulder.

Photo 2 of 2 : UCIP_SP_2016_39649_59704.jpg



Concrete headwall at 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**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	74
LM End	36.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.275832 °	36.974113 °
				-120.825837 °	-120.363239 °
DWR ID	DWR_NA0010_06_s _ 2016_74				
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.	75
LM End	36.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.275832 °	36.974113 °
				-120.825837 °	-120.363239 °
DWR ID	DWR_NA0010_06_s _ 2016_75				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 1 of 2 : UCIP_SP_2016_39463_66341.jpg



View of waterward side.

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

Photo 2 of 2 : UCIP_SP_2016_39463_66343.jpg



View of slope on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_36565_66346.jpg



Overview of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36565_66345.jpg



Concrete structure located on waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	1.84	Rating **	M	Issue No.	125
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259527 °	37.259527 °
				-120.803300 °	-120.803300 °
DWR ID	DWR_NA0010_06_s _ 2012_125				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Photo 1 of 2 : UCIP_SP_2016_36566_66348.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36566_66350.jpg



View of waterward side.

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

Photo 1 of 2 : UCIP_SP_2016_39464_66354.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_39464_66357.jpg



View of waterward side.

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

Photo 1 of 2 : UCIP_SP_2016_36568_66362.jpg



Overview of levee crown at crossing.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36568_66360.jpg



View of waterward side.

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

Photo 1 of 2 : UCIP_SP_2016_36569_66369.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36569_66368.jpg



Overview of levee crown at crossing.

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

Photo 1 of 2 : UCIP_SP_2016_36583_66381.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36583_66380.jpg



Flap gate and concrete headwall visible on waterward side.

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

Photo 1 of 2 : UCIP_SP_2016_36584_66384.jpg



Overview of levee crown and 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36584_66386.jpg



View of waterward side.

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

Photo 1 of 2 : UCIP_SP_2016_36585_66389.jpg



Overview of levee crown at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36585_66390.jpg



Flap gate and concrete headwall visible on waterward side.

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

Photo 1 of 2 : UCIP_SP_2016_39482_71643.jpg



View of structure located on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_39482_71644.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Comment Code

Inspector Comment

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

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

Photo 1 of 2 : UCIP_SP_2016_39465_66394.jpg



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

Photo 2 of 2 : UCIP_SP_2016_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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_39466_66413.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39466_66412.jpg



View of landward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_39467_66407.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39467_66406.jpg



Slide gate inside CMP riser visible on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_36606_66418.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36606_66417.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

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

Photo 1 of 2 : UCIP_SP_2016_36607_66422.jpg



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

Photo 2 of 2 : UCIP_SP_2016_36607_66421.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

No Photos

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

Photo 1 of 3 : SP_2016_NA0010_124_71_20160512_00027.jpg



Looking at dyke around drainage pipe at landward toe.

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

Photo 2 of 3 : SP_2016_NA0010_124_71_20160512_00028.jpg



Looking south at dyke around drainage pipe at landward toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 3 of 3 : SP_2016_NA0010_124_71_20160512_00029.jpg



Looking south at dyke around drainage pipe at landward toe.

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

Photo 1 of 2 : UCIP_SP_2016_39468_66425.jpg



Overview of levee crown at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

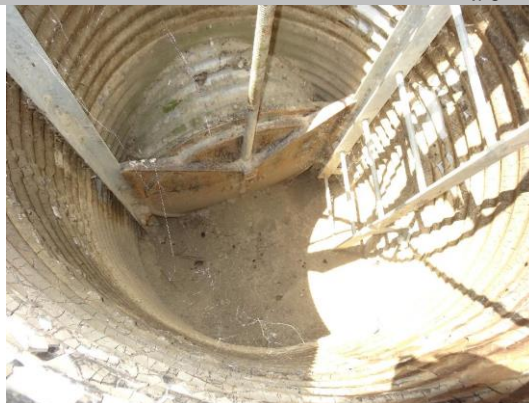
Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_39468_66426.jpg



Inside view of CMP riser located on waterward.

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

Photo 1 of 2 : SP_2016_NA0010_124_10_20160512_00012.jpg



Looking at rodent hole along fence line on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	4.66	Rating **	M	Issue No.	10 (cont)	
LM End	4.66	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.243540 °		37.243540 °
				-120.760782 °		-120.760782 °
DWR ID	DWR_NA0010_06_s _ 2012_10					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Rodent holes next to fence post on landward slope.						

Photo 2 of 2 : SP_2016_NA0010_124_10_20160512_00013.jpg



Looking at typical rodent holes on landward slope.

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

Photo 1 of 2 : UCIP_SP_2016_36609_66433.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36609_66432.jpg



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

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

Photo 1 of 2 : UCIP_SP_2016_36610_66436.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36610_66438.jpg



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

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

Photo 1 of 2 : UCIP_SP_2016_39875_61599.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_39875_61598.jpg



Overview of levee crown at crossing.

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

Photo 1 of 2 : UCIP_SP_2016_36611_66441.jpg



Concrete headwall and flap gate visible on waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

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

Photo 2 of 2 : UCIP_SP_2016_36611_66440.jpg



View of waterward side--dense vegetation covers slope.

LM Start	5.93	Rating **	U	Issue No.	69
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.236936 °	37.235487 °
				-120.740384 °	-120.737685 °
DWR ID	DWR_NA0010_06_f_2015_69				
Comment Code					
PO : Pole					
Inspector Comment					
Several PG& E poles within this section at the landward toe and slope.					

Photo 1 of 2 : SP_2016_NA0010_124_69_20160512_00021.jpg



Looking at power pole 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	5.93	Rating **	U	Issue No.	69 (cont)	
LM End	6.25	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.236936 °		37.235487 °
				-120.740384 °		-120.737685 °
DWR ID	DWR_NA0010_06_f _ 2015_69					
Comment Code						
PO : Pole						
Inspector Comment						
Several PG& E poles within this section at the landward toe and slope.						

Photo 2 of 2 : SP_2016_NA0010_124_69_20160523_00168.jpg



Looking west at several PG&E poles on landward slope.

LM Start	5.98	Rating **	U	Issue No.	1262
LM End	5.98	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.236414 °	37.236414 °
				-120.739735 °	-120.739735 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48510 DS_ID:19865 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 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. 4/18/2014 Need to contact owner. Sediment buildup in pipe visible on landside-- recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through levee, 9.0 feet below crown. Concrete headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.06). [Additional Reference(s): DWR Levee Log, 1990. USACE San Joaquin River O&M Manual 601, 1967 Part 1 (HLM 6.06)]. FS Date: 5/26/2016 10:46:00 AM					

Photo 1 of 2 : UCIP_SP_2016_48510_75117.jpg



Overview of outlet looking towards channel.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	5.98	Rating **	U	Issue No.	1262 (cont)	
LM End	5.98	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.236414 °	37.236414 °	
				-120.739735 °	-120.739735 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:48510 DS_ID:19865 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 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. 4/18/2014 Need to contact owner. Sediment buildup in pipe visible on landside--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through levee, 9.0 feet below crown. Concrete headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.06). [Additional Reference(s): DWR Levee Log, 1990. USACE San Joaquin River O&M Manual 601, 1967 Part 1 (HLM 6.06)]. FS Date: 5/26/2016 10:46:00 AM						

Photo 2 of 2 : UCIP_SP_2016_48510_75114.jpg



View of WS with flap gate open.

LM Start	5.98	Rating **	U	Issue No.	1
LM End	5.98	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.236386 °	37.236386 °
				-120.739706 °	-120.739706 °
DWR ID	DWR_NA0010_06_s_2016_1				
Comment Code					
Inspector Comment					
Erosion is undermining the headwall on both sides of the drainage structure.					

Photo 1 of 6 : SP_2016_NA0010_124_1_20160523_00170.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	5.98	Rating **	U	Issue No.	1 (cont)	
LM End	5.98	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Erosion Areas			37.236386 °	37.236386 °	
				-120.739706 °	-120.739706 °	
DWR ID	DWR_NA0010_06_s_2016_1					
Comment Code						
Inspector Comment						
Erosion is undermining the headwall on both sides of the drainage structure.						

LM Start	5.98	Rating **	U	Issue No.	1 (cont)
LM End	5.98	Issue Type +	Ma	Location *	WS

Photo 2 of 6 : SP_2016_NA0010_124_1_20160523_00171.jpg



Photo 3 of 6 : SP_2016_NA0010_124_1_20160523_00172.jpg



LM Start	5.98	Rating **	U	Issue No.	1 (cont)
LM End	5.98	Issue Type +	Ma	Location *	WS

Photo 4 of 6 : SP_2016_NA0010_124_1_20160523_00173.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	5.98	Rating **	U	Issue No.	1 (cont)	
LM End	5.98	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Erosion Areas			37.236386 °	37.236386 °	
				-120.739706 °	-120.739706 °	
DWR ID	DWR_NA0010_06_s_2016_1					
Comment Code						
Inspector Comment						
Erosion is undermining the headwall on both sides of the drainage structure.						

LM Start	5.98	Rating **	U	Issue No.	1 (cont)
LM End	5.98	Issue Type +	Ma	Location *	WS

Photo 5 of 6 : SP_2016_NA0010_124_1_20160523_00169.jpg



Looking west at erosion on waterside around structure.

Photo 6 of 6 : SP_2016_NA0010_124_1_20160523_00174.jpg



LM Start	5.98	Rating **	U	Issue No.	70
LM End	5.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.236382 °	37.236382 °
				-120.739709 °	-120.739709 °
DWR ID	DWR_NA0010_06_f_2015_70				
Comment Code					
PI : Pipe					
Inspector Comment					
Pipe from well at 15ft line with dyke around pipe to close to landward toe.					

Photo 1 of 5 : SP_2016_NA0010_124_70_20160512_00022.jpg



Looking south at dyke connected to drainage structure at landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	5.98	Rating **	U	Issue No.	70 (cont)	
LM End	5.98	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.236382 °		37.236382 °
				-120.739709 °		-120.739709 °
DWR ID	DWR_NA0010_06_f_2015_70					
Comment Code						
PI : Pipe						
Inspector Comment						
Pipe from well at 15ft line with dyke around pipe to close to landward toe.						

LM Start	5.98	Rating **	U	Issue No.	70 (cont)
LM End	5.98	Issue Type +	En	Location *	LS

Photo 2 of 5 : SP_2016_NA0010_124_70_20160512_00023.jpg



Looking southwest at dyke connected to drainage structure at landward toe.

Photo 3 of 5 : SP_2016_NA0010_124_70_20160512_00024.jpg



Looking west at dyke connected to drainage structure at landward toe.

LM Start	5.98	Rating **	U	Issue No.	70 (cont)
LM End	5.98	Issue Type +	En	Location *	LS

Photo 4 of 5 : SP_2016_NA0010_124_70_20160512_00025.jpg



Looking northwest at dyke connected to drainage structure at landward toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	5.98	Rating **	U	Issue No.	70 (cont)	
LM End	5.98	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.236382 °		37.236382 °
				-120.739709 °		-120.739709 °
DWR ID	DWR_NA0010_06_f_2015_70					
Comment Code						
PI : Pipe						
Inspector Comment						
Pipe from well at 15ft line with dyke around pipe to close to landward toe.						

Photo 5 of 5 : SP_2016_NA0010_124_70_20160512_00026.jpg



Looking north at dyke connected to drainage structure at landward toe.

LM Start	5.98	Rating **	C	Issue No.	65
LM End	5.98	Issue Type +	Ma	Location *	LS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.236372 °	37.236372 °
				-120.739706 °	-120.739706 °
DWR ID	DWR_NA0010_06_f_2014_65				
Comment Code					
Inspector Comment					
Erosion on right side of headwall at landward toe.					

No Photos

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	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	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

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	7.21	Rating **	M	Issue No.	1219
LM End	7.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.226102 °	37.226102 °
				-120.722739 °	-120.722739 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39471 DS_ID:19868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Clear animal from waterward side. Some sediment buildup in pipe visible landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.6 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.29). FS Date: 4/18/2014					

LM Start	7.21	Rating **	M	Issue No.	1219 (cont)
LM End	7.21	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39471_61650.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39471_61649.jpg



Concrete headwall and flap gate visible on waterward side. Dead animal inside pipe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	7.66	Rating **	M	Issue No.	1220
LM End	7.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.222743 °	37.222743 °
				-120.716416 °	-120.716416 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39472 DS_ID:19869 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.8 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.74). Skewed crossing FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_39472_66462.jpg



View of waterward side.

LM Start	7.66	Rating **	M	Issue No.	1220 (cont)
LM End	7.66	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39472_66461.jpg



Pipe crosses levee at an angle.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	8.13	Rating **	M	Issue No.	1221
LM End	8.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.216547 °	37.216547 °
				-120.713000 °	-120.713000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39473 DS_ID:19870 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe--recommend contacting owner to clear sediment. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 16.5 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.21). FS Date: 4/18/2014					

LM Start	8.13	Rating **	M	Issue No.	1221 (cont)
LM End	8.13	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39473_61674.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39473_61673.jpg



Pipe crosses levee at an angle.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	8.43	Rating **	M	Issue No.	1222	
LM End	8.43	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.213288 °	37.213288 °	
				-120.709503 °	-120.709503 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39474						
DS_ID:19871						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side--recommend clearing. Good candidate for pressure test or video inspection due to signs of heavy corrosion. If no leaks after tests this crossing would be a good candidate for rehabilitation.						
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 9.2 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.51).						
FS Date: 4/18/2014						

Photo 1 of 2 : UCIP_SP_2016_39474_61685.jpg



View of waterward side.

LM Start	8.43	Rating **	M	Issue No.	1222 (cont)
LM End	8.43	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39474_61684.jpg



View of 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	9.52	Rating **	M	Issue No.	1256
LM End	9.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202481 °	37.202481 °
				-120.695303 °	-120.695303 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42525 DS_ID:19872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 12/5/14 Accidently missed updating record. Photos have been added and coordinates have been updated. Unable to confirm if crossing is the same cable line originally identified in desk study at levee mile 6.43. Recommend contacting owner to confirm alignment, size of conduit, and permit issued. FIELD_STRUCT_DESC: Buried telephone cable under crown of roadway. FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_42525_72925.jpg



Service box located on waterward levee shoulder.

LM Start	9.52	Rating **	M	Issue No.	1256 (cont)
LM End	9.52	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_42525_72924.jpg



Service box is for electrical conduit.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	9.56	Rating **	M	Issue No.	1255
LM End	9.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202014 °	37.202014 °
				-120.694820 °	-120.694820 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42524 DS_ID:19873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/5/14 Accidently missed entry. Photos have been added and coordinates have been updated by Olivia Magana. Unable to determine condition of crossing due to limited access. Recommend contacting owner to provide condition of crossing. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 14.0 feet below crown. Slide gate in concrete diversion box on the waterward shoulder. FS Date: 4/18/2014					

LM Start	9.56	Rating **	M	Issue No.	1255 (cont)
LM End	9.56	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_42524_72922.jpg



Overview of levee crown looking upstream.

Photo 2 of 2 : UCIP_SP_2016_42524_72921.jpg



Concrete box located on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	9.59	Rating **	M	Issue No.	1216
LM End	9.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694865 °	-120.694865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39492					
DS_ID:19742					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Accidently missed--need photos					
FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 1 of 6.					
Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure.					
Rock revetment immediately downstream of structure. Provide field description for crossing.					
FS Date: 4/21/2014					

No Photos

LM Start	9.59	Rating **	M	Issue No.	1259
LM End	9.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47014 DS_ID:19739 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidently missed--need photos. FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 2 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

No Photos

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	9.59	Rating **	M	Issue No.	1257
LM End	9.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47011 DS_ID:19740 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidently missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 3 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

No Photos

LM Start	9.60	Rating **	M	Issue No.	1260
LM End	9.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47015 DS_ID:19741 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidently missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 4 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

No Photos

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	9.60	Rating **	M	Issue No.	1258
LM End	9.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.201544 °	37.201544 °
				-120.694870 °	-120.694870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47013 DS_ID:19558 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Accidently missed--need photos FIELD_STRUCT_DESC: [Mariposa Bypass Structure] 5 of 6. Approximately 14 R.C.B.C. across intersection of Mariposa Bypass and Eastside Bypass. Roadway across structure. Controlled slide gates on end four culverts, both sides. Wingwalls on both sides of structure. Rock revetment immediately downstream of structure. Provide field description for crossing. FS Date: 4/21/2014					

No Photos

LM Start	9.66	Rating **	M	Issue No.	1223
LM End	9.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200948 °	37.200948 °
				-120.694362 °	-120.694362 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39475					
DS_ID:19874					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Waterward side not visible--need to determine alignment.					
FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 14.0 feet below crown. Slide gate in concrete diversion box on the waterward shoulder.					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_39475_61691.jpg



View of 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	9.66	Rating **	M	Issue No.	1223 (cont)	
LM End	9.66	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.200948 °	37.200948 °	
				-120.694362 °	-120.694362 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39475 DS_ID:19874 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Waterward side not visible--need to determine alignment. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 14.0 feet below crown. Slide gate in concrete diversion box on the waterward shoulder. FS Date: 4/17/2014						

Photo 2 of 2 : UCIP_SP_2016_39475_61690.jpg



Pipe, slide gate, and concrete headwall visible on landward side.

LM Start	9.74	Rating **	M	Issue No.	6
LM End	11.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.200697 °	37.187645 °
				-120.692927 °	-120.676996 °
DWR ID	DWR_NA0010_06_s_2012_6				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Levee crown should be regraded due to excessive rutting.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	14
LM End	11.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.186189 °	37.186189 °
				-120.668476 °	-120.668476 °
DWR ID	DWR_NA0010_06_s_2015_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Almond tree located along Sandy Mush Rd. on waterward slope.					

Photo 1 of 1 : SP_2016_NA0010_124_14_20160512_00014.jpg



Looking west at tree on waterward slope.

LM Start	11.56	Rating **	M	Issue No.	1253
LM End	11.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.186227 °	37.186227 °
				-120.667337 °	-120.667337 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39892					
DS_ID:19875					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Unable to stop--high traffic area--safety issue.					
Crossing needs to be evaluated					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 16.6 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.64).					
FS Date: 4/17/2014					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	11.74	Rating **	M	Issue No.	1224
LM End	11.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.185513 °	37.185513 °
				-120.664561 °	-120.664561 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39476 DS_ID:19876 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Clear debris from waterward and landward toes. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 17.0 feet below crown. Slide gate in pipe riser on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 11.82). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_39476_66488.jpg



View of waterward side.

LM Start	11.74	Rating **	M	Issue No.	1224 (cont)
LM End	11.74	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_39476_66487.jpg



View of 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
--	--	---	--	---

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	13.22	Rating **	M	Issue No.	1225
LM End	13.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.171675 °	37.171675 °
				-120.655064 °	-120.655064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39477					
DS_ID:19877					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Not accessible--crossing is buried on landward side.					
Need to contact owner to determine status.					
FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 10.8 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.30).					
FS Date: 4/17/2014					

LM Start	13.22	Rating **	M	Issue No.	1225 (cont)
LM End	13.22	Issue Type +	En	Location *	WS

A wide, flat, gravelly area, likely a beach or tidal flat, with sparse green vegetation in the foreground and a line of trees and shrubs in the background.

View of levee crown at crossing.

View of 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	13.24	Rating **	M	Issue No.	68
LM End	13.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.171686 °	37.171686 °
				-120.654562 °	-120.654562 °
DWR ID	DWR_NA0010_06_f_2015_68				
Comment Code					
MA : Material					
Inspector Comment					
Landowner stockpile dirt at landward toe.					

Photo 1 of 1 : SP_2016_NA0010_124_68_20160523_00177.jpg



Looking west at dirt stockpile at landward toe.

LM Start	14.36	Rating **	M	Issue No.	1226
LM End	14.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.167888 °	37.167888 °
				-120.636419 °	-120.636419 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39478 DS_ID:19878 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not accessible--crossing is buried on landward side. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 12.3 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.44). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_39478_66496.jpg



View of waterward slope.

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

Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	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.	1227
LM End	15.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.156934 °	37.156934 °
				-120.617210 °	-120.617210 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39480 DS_ID:19884 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup on both the waterward and landward side. Recommend removing sediment buildup from both side. Also recommend clearing excess sediment inside crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 14.0 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.76). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_39480_66507.jpg



Flap gate buried halfway on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	15.68	Rating **	M	Issue No.	1227 (cont)
LM End	15.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.156934 °	37.156934 °
				-120.617210 °	-120.617210 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39480 DS_ID:19884 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup on both the waterward and landward side. Recommend removing sediment buildup from both side. Also recommend clearing excess sediment inside crossing. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 14.0 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.76). FS Date: 4/17/2014					

Photo 2 of 2 : UCIP_SP_2016_39480_66506.jpg



View of waterward side.

LM Start	15.82	Rating **	M	Issue No.	1242
LM End	15.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.155539 °	37.155539 °
				-120.615303 °	-120.615303 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36663 DS_ID:19885 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Waterward side is buried and not accessible. Landward side headwall is blocked by dense vegetation. Recommend confirming status of flap gate on waterward side and removing dense vegetation from landward side. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 16.6 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.91). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_36663_66530.jpg



View of waterward side, Photo 1 of 3.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1242 (cont)	
LM End	15.82	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.155539 °		37.155539 °
				-120.615303 °		-120.615303 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36663 DS_ID:19885 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Waterward side is buried and not accessible. Landward side headwall is blocked by dense vegetation. Recommend confirming status of flap gate on waterward side and removing dense vegetation form landward side. FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 16.6 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.91). FS Date: 4/17/2014						

Photo 2 of 2 : UCIP_SP_2016_36663_66526.jpg



View of waterward side, photo 2 of 3.

LM Start	16.40	Rating **	M	Issue No.	1243
LM End	16.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.149747 °	37.149747 °
				-120.607702 °	-120.607702 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36665					
DS_ID:19559					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status of crossing. Unable to confirm pipe diameter.					
FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 5.9 feet below the crown. Slide gate on the waterward side. Siphon extends under channel. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.49).					
FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_36665_66541.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	16.40	Rating **	M	Issue No.	1243 (cont)
LM End	16.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.149747 °	37.149747 °
				-120.607702 °	-120.607702 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36665 DS_ID:19559 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Unable to confirm pipe diameter. FIELD_STRUCT_DESC: 36-inch CM pipe through the levee, 5.9 feet below the crown. Slide gate on the waterward side. Siphon extends under channel. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 16.49). FS Date: 4/17/2014					

Photo 2 of 2 : UCIP_SP_2016_36665_66539.jpg



Concrete headwall and pipe visible on waterward side.

LM Start	18.20	Rating **	M	Issue No.	1251
LM End	18.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.127773 °	37.127773 °
				-120.590809 °	-120.590809 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39876					
DS_ID:19887					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment build up on landward side toe -- debris blockage. No photos available. Recommend taking photos of crossing.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 11.5 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.27).					
FS Date: 4/17/2014					

No Photos

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	18.81	Rating **	U	Issue No.	1254
LM End	18.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.119268 °	37.119268 °
				-120.587208 °	-120.587208 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42941 DS_ID:19888 EP_NO: 3040 Repair Type: Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Leak on waterward toe approximately 15 feet from toe. Good candidate for video or pressure test. FIELD_STRUCT_DESC: 48-inch CM pipe through levee, 8.8 feet below crown. Slide gate in riser pipe on the landward side (not waterward slope). Concrete headwall on the landward side (not waterward side). Siphon under channel. 24-inch CM "clean out" pipe at center of channel, metal plate cover. (Permit No. 3040-1960) FS Date: 4/17/2014					

LM Start	18.81	Rating **	U	Issue No.	1254 (cont)
LM End	18.81	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_42941_66562.jpg



View of waterward side. Channel section exposed near waterward toe.

Photo 2 of 2 : UCIP_SP_2016_42941_66564.jpg



Overview of Eastside Bypass.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	18.89	Rating **	M	Issue No.	1244
LM End	18.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.118178 °	37.118178 °
				-120.586783 °	-120.586783 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36687 DS_ID:19889 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.2 feet below crown. Slide gate in pipe riser on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.97). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_36687_66579.jpg



View of waterward side.

LM Start	18.89	Rating **	M	Issue No.	1244 (cont)
LM End	18.89	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_36687_66582.jpg



Inside view of CMP riser located on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211
LM End	19.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.114793 °	37.114793 °
				-120.587582 °	-120.587582 °
DWR ID	DWR_NA0010_06_s _ 2015_1211				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope					

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 1 of 5 : SP_2016_NA0010_124_1211_20160523_00178.jpg



Looking at rodent hole on waterward slope. Spring 2016

Photo 2 of 5 : SP_2016_NA0010_124_1211_20160512_00037.jpg



Looking at several rodent holes on waterward slope. (Fall 2015)

Photo 3 of 5 : SP_2016_NA0010_124_1211_20160512_00038.jpg



Looking at close-up view of large rodent hole on waterward slope. (Spring 2015)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)	
LM End	19.14	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.114793 °		37.114793 °
				-120.587582 °		-120.587582 °
DWR ID	DWR_NA0010_06_s _ 2015_1211					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope						

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 4 of 5 : SP_2016_NA0010_124_1211_20160512_00039.jpg



Looking at large rodent hole on waterward slope. Spring 2015

Photo 5 of 5 : SP_2016_NA0010_124_1211_20160512_00040.jpg



Looking west at several rodent holes on waterward slope. Spring 2015

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	19.28	Rating **	M	Issue No.	1245
LM End	19.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.112902 °	37.112902 °
				-120.588751 °	-120.588751 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36688 DS_ID:19890 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48-inch CM pipe through levee, 20.0 feet below crown. Slide gate in pipe riser on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.36). Rip rap along landward slope. FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_36688_66583.jpg



View of waterward side.

LM Start	19.28	Rating **	M	Issue No.	1245 (cont)
LM End	19.28	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_36688_66584.jpg



Riser located on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	19.31	Rating **	C	Issue No.	66
LM End	19.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.112512 °	37.112512 °
				-120.589051 °	-120.589051 °
DWR ID	DWR_NA0010_06_f_2015_66				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage (sofa) on waterward slope and berm.					

No Photos

LM Start	19.94	Rating **	M	Issue No.	1217
LM End	19.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113304 °	37.113304 °
				-120.579102 °	-120.579102 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36689 DS_ID:19891 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 2.5x2.5-foot R.C.B.C. through the levee, 14.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.85). FS Date: 4/17/2014					

Photo 1 of 2 : UCIP_SP_2016_36689_66591.jpg



Overview of levee crown looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	19.94	Rating **	M	Issue No.	1217 (cont)
LM End	19.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.113304 °	37.113304 °
				-120.579102 °	-120.579102 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36689					
DS_ID:19891					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 2.5x2.5-foot R.C.B.C. through the levee, 14.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 19.85).					
FS Date: 4/17/2014					

Photo 2 of 2 : UCIP_SP_2016_36689_66592.jpg



View of levee crown at crossing.

LM Start	20.79	Rating **	U	Issue No.	1209
LM End	20.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.113107 °	37.112176 °
				-120.563782 °	-120.562516 °
DWR ID	DWR_NA0010_06_s_2015_1209				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on landward slope greater than 3 inches. Erosion caused by livestock.					

Photo 1 of 2 : SP_2016_NA0010_124_1209_20160512_00034.jpg



Looking north at livestock erosion 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	20.79	Rating **	U	Issue No.	1209 (cont)	
LM End	20.88	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.113107 °	37.112176 °	
				-120.563782 °	-120.562516 °	
DWR ID	DWR_NA0010_06_s _ 2015_1209					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion on landward slope greater than 3 inches. Erosion caused by livestock.						

Photo 2 of 2 : SP_2016_NA0010_124_1209_20160512_00035.jpg



Looking northeast at livestock erosion on landward slope.

LM Start	20.83	Rating **	C	Issue No.	1210
LM End	20.83	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.112782 °	37.112782 °
				-120.563170 °	-120.563170 °
DWR ID	DWR_NA0010_06_s _ 2015_1210				
Comment Code					
GA : Garbage					
Inspector Comment					

No Photos

LM Start	22.99	Rating **	M	Issue No.	8
LM End	23.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.088663 °	37.087968 °
				-120.538193 °	-120.537485 °
DWR ID	DWR_NA0010_06_s _ 2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	24.02	Rating **	M	Issue No.	1213
LM End	24.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.077406 °	37.077406 °
				-120.525938 °	-120.525938 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34010					
DS_ID:19879					
EP_NO: 13638					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status. Crossing has been modified.					
FIELD_STRUCT_DESC: 16-inch steel pipe through levee, 3.5 feet below crown. Pump on the waterside. Siphon breaker on the landward shoulder. Cutoff wall around pipe at center of levee. Intake trench on waterward side. (Permit No. 13638-1984)					
FS Date: 4/17/2014					

LM Start	24.02	Rating **	M	Issue No.	1213 (cont)
LM End	24.02	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_34010_61871.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_SP_2016_34010_61870.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	24.58	Rating **	M	Issue No.	5
LM End	24.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.071198 °	°
				-120.519220 °	°
DWR ID	DWR_NA0010_06_s _ 2012_5				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landside erosion caused by livestock.					

LM Start	24.58	Rating **	M	Issue No.	5 (cont)
LM End	24.93	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : SP_2016_NA0010_124_5_20160512_00007.jpg



Looking north at livestock erosion on landward slope. (Spring 2015)

Photo 2 of 3 : SP_2016_NA0010_124_5_20160512_00008.jpg



Looking north at livestock erosion on landward slope. (Spring 2014)

LM Start	24.58	Rating **	M	Issue No.	5 (cont)
LM End	24.93	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2016_NA0010_124_5_20160512_00009.jpg



Looking north at livestock erosion on landside slope. (Fall 2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	26.13	Rating **	M	Issue No.	1208
LM End	26.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.054222 °	37.054222 °
				-120.500862 °	-120.500862 °
DWR ID	DWR_NA0010_06_s _ 2015_1208				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes next to and within rock revertment on landward slope.					

Photo 1 of 1 : SP_2016_NA0010_124_1208_20160512_00033.jpg



Looking northeast at several rodent holes on landward slope.

LM Start	27.64	Rating **	M	Issue No.	3
LM End	27.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.036955 °	37.032887 °
				-120.484395 °	-120.481225 °
DWR ID	DWR_NA0010_06_s _ 2012_3				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landside erosion caused by livestock. Erosion greater than 3" in depth on landward slope. Levee crown has narrowed within this reach.					

Photo 1 of 4 : SP_2016_NA0010_124_3_20160512_00003.jpg



Looking north at livestock erosion on landward slope. Fall 2015

LM Start	27.64	Rating **	M	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP_2016_NA0010_124_3_20160512_00004.jpg



Looking north at livestock erosion on landward shoulder and slope.(Spring 2015)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	27.64	Rating **	M	Issue No.	3 (cont)	
LM End	27.97	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.036955 °		37.032887 °
				-120.484395 °		-120.481225 °
DWR ID	DWR_NA0010_06_s _ 2012_3					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landside erosion caused by livestock. Erosion greater than 3" in depth on landward slope. Levee crown has narrowed within this reach.						

LM Start	27.64	Rating **	M	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP_2016_NA0010_124_3_20160512_00005.jpg



Looking north at livestock erosion on landside shoulder and slope. (Fall 2014)

Photo 4 of 4 : SP_2016_NA0010_124_3_20160512_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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	29.44	Rating **	M	Issue No.	1252
LM End	29.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.030369 °	37.030369 °
				-120.455969 °	-120.455969 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39886
DS_ID:19881
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 12.4 feet below crown. Slide gate in 48-inch CM pipe riser in the waterward slope. Concrete "U" headwall on both ends. Cobble pad on the landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 29.34).
FS Date: 4/10/2014

LM Start	29.44	Rating **	M	Issue No.	1252 (cont)
LM End	29.44	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39886_66600.jpg



View of waterward side--slide gate inside CMP riser located on waterward slope.

Photo 2 of 2 : UCIP_SP_2016_39886_66603.jpg



Inside view of CMP riser located on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	30.36	Rating **	M	Issue No.	1218
LM End	30.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.027330 °	37.027330 °
				-120.441498 °	-120.441498 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36693 DS_ID:19882 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Altered crossing--steel pipe section on landward side and concrete pipe section on waterward side. Joints on waterward side seperated. Need to contact owner to determine status. FIELD_STRUCT_DESC: [Rodunder Siphon Structure] 48-inch R.C. siphon pipe through the levee, 14.5 feet below the crown. Concrete "U" headwall on outlet structure on the landward end. Slide gate mounted on the headwall. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 30.27). FS Date: 4/10/2014					

LM Start	30.36	Rating **	M	Issue No.	1218 (cont)
LM End	30.36	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_36693_66607.jpg



Overview of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36693_66604.jpg



Overview of Eastside Bypass at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	30.81	Rating **	U	Issue No.	1207
LM End	31.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.021615 °	37.018428 °
				-120.437587 °	-120.435378 °
DWR ID	DWR_NA0010_06_s _ 2015_1207				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Landward erosion greater than 1" in depth and greater than 3" in length. Erosion caused by livestock traffic.					

LM Start	30.81	Rating **	U	Issue No.	1207 (cont)
LM End	31.06	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_NA0010_124_1207_20160512_00031.jpg



Looking northeast at livestock erosion on landward slope.

Photo 2 of 2 : SP_2016_NA0010_124_1207_20160512_00032.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_2016_NA0010_124_2_20160512_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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	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_2016_NA0010_124_2_20160512_00002.jpg



Looking at typical rodent hole on landside slope.

LM Start	33.08	Rating **	M	Issue No.	1261
LM End	33.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995672 °	36.995672 °
				-120.412919 °	-120.412919 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46183 DS_ID:19883 EP_NO: 6416A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing updated--need to contact owner to determine permit issued by CVFPB for authorized changes. FIELD_STRUCT_DESC: 20-inch (not 18 inch as mentioned in DS study) steel pipe through the levee, 3.9 feet below crown. Electrical conduit through levee. Capped with welded plate on landward end. Siphon breaker on apex of pipe on the landward shoulder. Cutoff wall around pipe at centerline of levee. Slant pump on waterward slope. (Permit No. 6416A-1980) FS Date: 4/10/2014					

Photo 1 of 2 : UCIP_SP_2016_46183_61898.jpg



View of waterward side--pipe and pump fenced off on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	33.08	Rating **	M	Issue No.	1261 (cont)
LM End	33.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995672 °	36.995672 °
				-120.412919 °	-120.412919 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46183 DS_ID:19883 EP_NO: 6416A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing updated--need to contact owner to determine permit issued by CVFPB for authorized changes. FIELD_STRUCT_DESC: 20-inch (not 18 inch as mentioned in DS study) steel pipe through the levee, 3.9 feet below crown. Electrical conduit through levee. Capped with welded plate on landward end. Siphon breaker on apex of pipe on the landward shoulder. Cutoff wall around pipe at centerline of levee. Slant pump on waterward slope. (Permit No. 6416A-1980) FS Date: 4/10/2014					

Photo 2 of 2 : UCIP_SP_2016_46183_61902.jpg



Electrical conduit visible on waterward slope.

LM Start	33.08	Rating **	C	Issue No.	123
LM End	33.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.995667 °	36.995667 °
				-120.412910 °	-120.412910 °
DWR ID	DWR_NA0010_06_s_2012_123				
Comment Code					
FE : Fence					
Inspector Comment					
Landowner apply for permit and received permit from CVFPB.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	05/18/2016 05/19/2016	Richard Willoughby

LM Start	35.42	Rating **	M	Issue No.	1214
LM End	35.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.974509 °	36.974509 °
				-120.382056 °	-120.382056 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39481 DS_ID:19813 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. High vegetation along crossing alignment--recommend removing vegetation along pipe crossing. FIELD_STRUCT_DESC: 48x72-inch through the levee, 15.1 feet below the crown. Slide gate in concrete riser in the waterward slope. Concrete "U" headwall on both ends. Landside channel cobble revetted for 8.0 feet. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 35.33). FS Date: 4/10/2014					

LM Start	35.42	Rating **	M	Issue No.	1214 (cont)
LM End	35.42	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39481_66628.jpg



View of waterward side--slide gate inside concrete box.

Photo 2 of 2 : UCIP_SP_2016_39481_66632.jpg



View of waterward slope covered by dense vegetation.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 07 Bear Creek Bypass			Right	3.62
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/16/2016 - 5/16/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	9
LM End	3.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.255613 °	37.254805 °
				-120.772341 °	-120.719687 °
DWR ID	DWR_NA0010_07_s _ 2016_9				
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.	13
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.255613 °	37.254808 °
				-120.772341 °	-120.719686 °
DWR ID	DWR_NA0010_07_s _ 2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

LM Start	0.07	Rating **	U	Issue No.	191
LM End	0.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.255897 °	37.255897 °
				-120.771127 °	-120.771127 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41131 DS_ID:19892 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flapgate partially blocked by soil buildup at WS toe. FIELD_STRUCT_DESC: 24-inch C.M stormdrain pipe through the levee, 10.8 feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.07). FS Date: 4/15/2014					

LM Start	0.07	Rating **	U	Issue No.	191 (cont)
LM End	0.07	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_41131_60954.jpg



Pipe and headwall at WS toe.

Photo 2 of 2 : UCIP_SP_2016_41131_60955.jpg



Pipe, headwall, and flapgate at WS toe. Soil buildup partially blocking flapgate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	188
LM End	0.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.258543 °	37.258543 °
				-120.764728 °	-120.764728 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33713 DS_ID:19894 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate not operable, but left in closed position. Need to reinstall covers over slide gate standpipe. FIELD_STRUCT_DESC: 36-inch C.M stormdrain pipe through the levee, 9.7 feet below the crown. Slide gate in 48-inch C.M. pipe riser in the landward slope. Concrete "U" headwall on the landward end, inlet channel cobble revetted. Dilapidated wooden pier on WS. Waterward slope and outlet ditch cobble revetted. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.49). FS Date: 4/15/2014					

LM Start	0.49	Rating **	M	Issue No.	188 (cont)
LM End	0.49	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_33713_60963.jpg



Slide gate in CMP riser on WS slope.

Photo 2 of 2 : UCIP_SP_2016_33713_60965.jpg



Outlet on WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

LM Start	0.50	Rating **	M	Issue No.	29
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.258722 °	37.258722 °
				-120.764867 °	-120.764867 °
DWR ID	DWR_NA0010_07_s_2012_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted on landward and waterward slope and shoulder.					

Photo 1 of 1 : SP_2016_NA0010_125_29_20160512_00011.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	0.85	Rating **	M	Issue No.	189
LM End	0.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.262981 °	37.262981 °
				-120.761703 °	-120.761703 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39507 DS_ID:19896 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Heavy sediment buildup at inlet due to animal activity should be cleared. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Wooden weir on concrete headwall at the LS toe. 36-inch concrete riser at LS toe. Concrete "U" headwall on the waterward end. Concrete standpipe on landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.85). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_SP_2016_39507_60986.jpg



Headwall and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

LM Start	0.85	Rating **	M	Issue No.	189 (cont)	
LM End	0.85	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.262981 °	37.262981 °	
				-120.761703 °	-120.761703 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39507						
DS_ID:19896						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Heavy sediment buildup at inlet due to animal activity should be cleared.						
FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 9.8-feet below the crown. Flap gate on the waterward end. Wooden weir on concrete headwall at the LS toe. 36-inch concrete riser at LS toe. Concrete "U" headwall on the waterward end. Concrete standpipe on landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.85). FS Date: 4/15/2014						

Photo 2 of 2 : UCIP_SP_2016_39507_60988.jpg



Headwall and flapgate on WS toe.

LM Start	0.85	Rating **	C	Issue No.	10
LM End	0.85	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.262991 °	37.262991 °
				-120.761711 °	-120.761711 °
DWR ID	DWR_NA0010_07_f_2015_10				
Comment Code					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

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					

LM Start	1.22	Rating **	M	Issue No.	1 (cont)
LM End	1.22	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_NA0010_125_1_20160512_00001.jpg



Looking north at several rodent holes on landward slope.

Photo 2 of 2 : SP_2016_NA0010_125_1_20160512_00002.jpg



Looking at east at active rodent holes on landside berm.

LM Start	1.25	Rating **	A/W	Issue No.	11
LM End	1.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.264367 °	37.264367 °
				-120.755218 °	-120.755218 °
DWR ID	DWR_NA0010_07_f_2014_11				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

LM Start	1.51	Rating **	M	Issue No.	6
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263885 °	37.263885 °
				-120.750527 °	-120.750527 °
DWR ID	DWR_NA0010_07_s _ 2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.71	Rating **	M	Issue No.	5
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.262570 °	37.262467 °
				-120.747453 °	-120.747180 °
DWR ID	DWR_NA0010_07_s _ 2013_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.94	Rating **	A/W	Issue No.	187
LM End	1.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.261032 °	37.261032 °
				-120.743705 °	-120.743705 °
DWR ID	DWR_NA0010_07_s _ 2015_187				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_125_187_20160512_00012.jpg



Looking at several rodent 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	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

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.					

LM Start	2.09	Rating **	M	Issue No.	12 (cont)
LM End	2.09	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_NA0010_125_12_20160512_00010.jpg



Looking east at rodent hole next to fence post on landward shoulder.

Photo 2 of 2 : SP_2016_NA0010_125_12_20160523_00025.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	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/16/2016 05/16/2016	Richard Willoughby

LM Start	3.09	Rating **	M	Issue No.	190
LM End	3.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.251883 °	37.251883 °
				-120.728264 °	-120.728264 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39508 DS_ID:19901 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup at landward toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 10.4-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.09). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_SP_2016_39508_61016.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	3.09	Rating **	M	Issue No.	190 (cont)
LM End	3.09	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39508_61015.jpg



Headwall, pipe, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 08 Bear Creek Bypass			Left	3.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2016 - 5/17/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	14
LM End	3.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.253099 °	37.254108 °
				-120.768445 °	-120.718832 °
DWR ID	DWR_NA0010_08_s _ 2016_14				
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.	13
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.253100 °	37.254108 °
				-120.768444 °	-120.718832 °
DWR ID	DWR_NA0010_08_s _ 2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.90	Rating **	M	Issue No.	22
LM End	0.90	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.262384 °	37.262384 °
				-120.760528 °	-120.760528 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39887
DS_ID:19832
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Some sediment buildup at inlet on LS toe.
FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 11.5 feet below crown. Flap gate on the waterward end. Concrete headwalls. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.89).
FS Date: 4/16/2014

LM Start	0.90	Rating **	M	Issue No.	22 (cont)
LM End	0.90	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39887_61084.jpg



Headwall, pipe, and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39887_61083.jpg



Headwall, pipe, 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.16	Rating **	M	Issue No.	5
LM End	1.16	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.263243 °	37.263243 °
				-120.756372 °	-120.756372 °
DWR ID	DWR_NA0010_08_s _ 2016_5				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression noted on levee crown.					

Photo 1 of 1 : SP_2016_NA0010_126_5_20160523_00025.jpg



Looking west at depression on toward landward shoulder.

LM Start	1.20	Rating **	M	Issue No.	2
LM End	1.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263182 °	37.263183 °
				-120.755650 °	-120.755637 °
DWR ID	DWR_NA0010_08_s _ 2012_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.21	Rating **	M	Issue No.	16
LM End	1.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.263188 °	37.263188 °
				-120.755399 °	-120.755399 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39509 DS_ID:19833 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris blocking landward headwall--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 11.6 feet below crown. Flap gate on the waterward end. Concrete headwalls. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.21). FS Date: 4/16/2014					

LM Start	1.21	Rating **	M	Issue No.	16 (cont)
LM End	1.21	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39509_61090.jpg



Concrete headwall, pipe, and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39509_61091.jpg



Concrete headwall, pipe, and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	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_2016_NA0010_126_8_20160512_00003.jpg



Looking west at rodent holes on landward slope.

LM Start	1.38	Rating **	M	Issue No.	17
LM End	1.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.263194 °	37.263194 °
				-120.752299 °	-120.752299 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39510 DS_ID:19834 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows along pipe alignment on LS. Some sediment buildup at LS toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 11.5 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.38). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_SP_2016_39510_61094.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	17 (cont)
LM End	1.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.263194 °	37.263194 °
				-120.752299 °	-120.752299 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39510 DS_ID:19834 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows along pipe alignment on LS. Some sediment buildup at LS toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 11.5 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.38). FS Date: 4/16/2014					

Photo 2 of 2 : UCIP_SP_2016_39510_61093.jpg



Pipe, headwall, and flapgate on WS toe.

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

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.258220 °	37.258220 °
				-120.742868 °	-120.742868 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39511 DS_ID:19835 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional landward inlet is buried in sediment. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 12.0 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.05). FS Date: 4/16/2014					

LM Start	2.05	Rating **	M	Issue No.	18 (cont)
LM End	2.05	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39511_61098.jpg



Pipe, headwall, and flapgate on Ws toe.

Photo 2 of 2 : UCIP_SP_2016_39511_61099.jpg



Pipe and headwall buried in sediment at LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	2.07	Rating **	M	Issue No.	7
LM End	2.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.258063 °	37.257688 °
				-120.742460 °	-120.741573 °
DWR ID	DWR_NA0010_08_s_2012_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No rodent activity and no rodent holes noted.					

Photo 1 of 1 : SP_2016_NA0010_126_7_20160512_00002.jpg



Looking at typical rodent hole on landside slope near headwall.

LM Start	2.12	Rating **	M	Issue No.	19
LM End	2.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.257800 °	37.257800 °
				-120.741604 °	-120.741604 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39512 DS_ID:19836 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 9.5- feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.12). FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_SP_2016_39512_61102.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	19 (cont)	
LM End	2.12	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.257800 °	37.257800 °	
				-120.741604 °	-120.741604 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39512 DS_ID:19836 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 9.5- feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.12). FS Date: 4/16/2014						

Photo 2 of 2 : UCIP_SP_2016_39512_61100.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	3.06	Rating **	U	Issue No.	21
LM End	3.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.250864 °	37.250864 °
				-120.728151 °	-120.728151 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42853					
DS_ID:19838					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Pipe blocked by silt on LS toe. Flapgate rusty and does not operate correctly.					
FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through levee, 13.4 feet below crown. Flap gate on the waterward end. (USACE-1967).					
This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.06).					
FS Date: 4/16/2014					

Photo 1 of 2 : UCIP_SP_2016_42853_61112.jpg



Pipe, headwall, and flapgate on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	3.06	Rating **	U	Issue No.	21 (cont)	
LM End	3.06	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.250864 °	37.250864 °	
				-120.728151 °	-120.728151 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42853						
DS_ID:19838						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: Pipe blocked by silt on LS toe. Flapgate rusty and does not operate correctly.						
FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through levee, 13.4 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.06).						
FS Date: 4/16/2014						

Photo 2 of 2 : UCIP_SP_2016_42853_61113.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	3.40	Rating **	M	Issue No.	3
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.253052 °	37.253600 °
				-120.722647 °	-120.720198 °
DWR ID	DWR_NA0010_08_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes on landward slope within this reach.					

Photo 1 of 1 : SP_2016_NA0010_126_3_20160512_00001.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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/17/2016 05/17/2016	Richard Willoughby

LM Start	3.43	Rating **	M	Issue No.	20
LM End	3.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.253151 °	37.253151 °
				-120.722182 °	-120.722182 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39513 DS_ID:19840 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access available on landward side. Need to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through levee, 13.0 feet below crown. Flap gate on the waterward end. Concrete headwall on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.43). FS Date: 4/16/2014					

LM Start	3.43	Rating **	M	Issue No.	20 (cont)
LM End	3.43	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39513_61134.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39513_61133.jpg



Pipe, headwall, and flapgate on WS toe.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 09 Owens Creek Bypass			Right	0.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2016 - 5/17/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	3
LM End	0.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.220261 °	37.220065 °
				-120.713028 °	-120.698350 °
DWR ID	DWR_NA0010_09_s_2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_127_3_20160523_00008.jpg



Looking west at typical view of waterward slope.

LM Start	0.00	Rating **	M	Issue No.	4
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.220262 °	37.220065 °
				-120.713028 °	-120.698350 °
DWR ID	DWR_NA0010_09_s_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_127_4_20160523_00007.jpg



Looking east at typical view of waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.47	Rating **	M	Issue No.	7
LM End	0.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.220416 °	37.220416 °
				-120.705248 °	-120.705248 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39888 DS_ID:19841 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete headwalls on landward and waterward under water. Need photo to confirm condition of concrete headwalls, pipe, and gate on both toes. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 18.7-feet below the crown. Slide gate inside 36-inch C.M. pipe riser on the waterward slope. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.47). FS Date: 4/22/2014					

LM Start	0.47	Rating **	M	Issue No.	7 (cont)
LM End	0.47	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39888_62119.jpg



Slide gate in CMP riser on WS slope with outlet visible in background.

Photo 2 of 2 : UCIP_SP_2016_39888_62117.jpg



Concrete headwall visible under water on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.69	Rating **	M	Issue No.	6
LM End	0.69	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.219874 °	37.219874 °
				-120.701438 °	-120.701438 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39515 DS_ID:19842 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows in area on LS slope. Minor sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch C.M. stormdrain pipe through the levee, 8.7-feet below the crown. Flap gate on the waterward end. Concrete headwall on the landward end. Concrete "U" headwall on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.70). FS Date: 4/22/2014					

LM Start	0.69	Rating **	M	Issue No.	6 (cont)
LM End	0.69	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39515_62128.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39515_62132.jpg



Headwall, flapgate, and pipe on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.87	Rating **	U	Issue No.	5
LM End	0.87	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			37.220065 °	37.220065 °
				-120.698350 °	-120.698350 °
DWR ID	DWR_NA0010_09_s _ 2016_5				
Comment Code					
Inspector Comment					
Gate hinges broken. Safety hazard.					

Photo 1 of 1 : SP_2016_NA0010_127_5_20160523_00009.jpg



Looking at missing hinges on fence post.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 10 Owens Creek Bypass			Left	0.80
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2016 - 5/17/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	3
LM End	0.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.217903 °	37.219366 °
				-120.711439 °	-120.698019 °
DWR ID	DWR_NA0010_10_s_2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_128_3_20160523_00005.jpg



Looking at typical of landward slope.

LM Start	0.00	Rating **	M	Issue No.	4
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.217903 °	37.219366 °
				-120.711439 °	-120.698018 °
DWR ID	DWR_NA0010_10_s_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_128_4_20160523_00006.jpg



Looking at typical view of waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.30	Rating **	M	Issue No.	5
LM End	0.30	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.219116 °	37.219116 °
				-120.706652 °	-120.706652 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39516 DS_ID:19845 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet blocked at LS toe by wooden gate. Need to contact owner to determine status. FIELD_STRUCT_DESC: 36-inch CM stormdrain pipe through levee, 19.6-feet below crown. Slide gate in 48-inch CM pipe riser on the waterward slope. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.31). FS Date: 4/22/2014					

LM Start	0.30	Rating **	M	Issue No.	5 (cont)
LM End	0.30	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39516_62144.jpg



Headwall and pipe visible on LS toe. Slide gate inside 48-inch CMP riser on WS slope.

Photo 2 of 2 : UCIP_SP_2016_39516_62146.jpg



Headwall and pipe on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.79	Rating **	C	Issue No.	2
LM End	0.79	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.219336 °	37.219336 °
				-120.698085 °	-120.698085 °
DWR ID	DWR_NA0010_10_f_2015_2				
Comment Code					
FE : Fence					
Inspector Comment					
Repair gate no hingers.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 11 Mariposa Bypass			Right	3.31
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/19/2016 - 5/19/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	9
LM End	3.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.202748 °	37.202310 °
				-120.755210 °	-120.695281 °
DWR ID	DWR_NA0010_11_s _ 2016_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_129_9_20160523_00023.jpg



Looking at typical view of landward slope.

LM Start	0.00	Rating **	A	Issue No.	10
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.202748 °	37.202310 °
				-120.755210 °	-120.695281 °
DWR ID	DWR_NA0010_11_s _ 2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_129_10_20160523_00022.jpg



Looking east at typical view of waterward slope.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	11
LM End	0.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202754 °	37.202754 °
				-120.747689 °	-120.747689 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39517					
DS_ID:19846					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 11.0 feet below the crown. Slide gate inside CMP riser located on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.42).					
FS Date: 4/18/2014					

LM Start	0.42	Rating **	M	Issue No.	11 (cont)
LM End	0.42	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39517_66644.jpg



View of slide gate inside CMP riser located on waterward slope.

Photo 2 of 2 : UCIP_SP_2016_39517_66643.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	12
LM End	0.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202751 °	37.202751 °
				-120.743474 °	-120.743474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39518 DS_ID:19847 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.65). FS Date: 4/18/2014					

LM Start	0.65	Rating **	M	Issue No.	12 (cont)
LM End	0.65	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39518_61997.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39518_61996.jpg



View of 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.84	Rating **	M	Issue No.	13
LM End	0.84	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202745 °	37.202745 °
				-120.739935 °	-120.739935 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39519					
DS_ID:19848					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 10.3 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.84).					
FS Date: 4/18/2014					

LM Start	0.84	Rating **	M	Issue No.	13 (cont)
LM End	0.84	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39519_62003.jpg



Overview of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39519_62002.jpg



Concrete headwall and flap gate visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	14
LM End	1.13	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202748 °	37.202748 °
				-120.734796 °	-120.734796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39520 DS_ID:19849 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.13). FS Date: 4/18/2014					

LM Start	1.13	Rating **	M	Issue No.	14 (cont)
LM End	1.13	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39520_62008.jpg



View of waterward side--flap gate visible at levee toe.

Photo 2 of 2 : UCIP_SP_2016_39520_62007.jpg



View of 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.49	Rating **	M	Issue No.	15
LM End	1.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202753 °	37.202753 °
				-120.728133 °	-120.728133 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39521					
DS_ID:19850					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 48-inch C.M. pipe through the levee, 16.3 feet below the crown. Slide gate in riser pipe on the waterward slope. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.50).					
FS Date: 4/18/2014					

LM Start	1.49	Rating **	M	Issue No.	15 (cont)
LM End	1.49	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39521_62018.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39521_62017.jpg



View of concrete headwall located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	1
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.202743 °	37.202743 °
				-120.723187 °	-120.723187 °
DWR ID	DWR_NA0010_11_s _ 2012_1				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.98	Rating **	M	Issue No.	16
LM End	1.98	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202740 °	37.202740 °
				-120.719247 °	-120.719247 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39522					
DS_ID:19851					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 12.8 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.99).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_39522_62024.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.98	Rating **	M	Issue No.	16 (cont)	
LM End	1.98	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.202740 °	37.202740 °	
				-120.719247 °	-120.719247 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39522						
DS_ID:19851						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 12.8 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.99).						
FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_SP_2016_39522_62025.jpg



Flap gate located on waterward side.

LM Start	3.04	Rating **	M	Issue No.	17
LM End	3.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.202494 °	37.202494 °
				-120.700153 °	-120.700153 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39523 DS_ID:19852 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.04). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_39523_62028.jpg



Overview of waterward side--flap gate, concrete headwall and apron visible on levee toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/19/2016 05/19/2016	Richard Willoughby

LM Start	3.04	Rating **	M	Issue No.	17 (cont)	
LM End	3.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.202494 °	37.202494 °	
				-120.700153 °	-120.700153 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39523 DS_ID:19852 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch C.M. pipe through the levee, 15.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.04). FS Date: 4/18/2014						

Photo 2 of 2 : UCIP_SP_2016_39523_62027.jpg



View of 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**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 12 Mariposa Bypass			Left	3.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/19/2016 - 5/19/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	10
LM End	3.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200939 °	37.200973 °
				-120.755179 °	-120.694883 °
DWR ID	DWR_NA0010_12_s_2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_130_10_20160523_00022.jpg



Looking at typical view of waterward slope.

LM Start	0.00	Rating **	A	Issue No.	11
LM End	3.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200939 °	37.200973 °
				-120.755178 °	-120.694883 °
DWR ID	DWR_NA0010_12_s_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_130_11_20160523_00023.jpg



Looking at typical view of 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	13
LM End	0.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200934 °	37.200934 °
				-120.747996 °	-120.747996 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36704					
DS_ID:19855					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.5 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.39).					
FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_36704_66647.jpg



View of waterward side.

LM Start	0.40	Rating **	M	Issue No.	13 (cont)
LM End	0.40	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_36704_66649.jpg



Concrete headwall and flap gate visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	16
LM End	1.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200922 °	37.200922 °
				-120.736012 °	-120.736012 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39889 DS_ID:19856 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.5 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.06). FS Date: 4/18/2014					

LM Start	1.06	Rating **	M	Issue No.	16 (cont)
LM End	1.06	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39889_62048.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39889_62049.jpg



Concrete headwall and flap gate visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.27	Rating **	M	Issue No.	14
LM End	1.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200919 °	37.200919 °
				-120.732234 °	-120.732234 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36705 DS_ID:19857 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Landward side not accessible due to dense vegetation and fence. Concrete headwall and flap gate under water therefore not able to evaluate condition. Will need to coordinate with owner to evaluate condition of crossing on waterward side and obtain access to evaluate landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 17.4 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.27). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_36705_66654.jpg



Overview of levee crown at crossing.

LM Start	1.27	Rating **	M	Issue No.	14 (cont)
LM End	1.27	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_36705_66652.jpg



View of waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	12
LM End	1.53	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200913 °	37.200913 °
				-120.727496 °	-120.727496 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34126 DS_ID:19858 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Limited access on landward side due to fence and dense vegetation. Recommend obtaining access to landward side and clear vegetation on landward side. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.7 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.53). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_34126_62060.jpg



View of waterward side.

LM Start	1.53	Rating **	M	Issue No.	12 (cont)
LM End	1.53	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_34126_62061.jpg



Concrete headwall and flap gate visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.16	Rating **	M	Issue No.	15
LM End	2.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200908 °	37.200908 °
				-120.716118 °	-120.716118 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39506					
DS_ID:19859					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing vegetation from landward side--headwall blocked.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 14.4 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.16).					
FS Date: 4/18/2014					

LM Start	2.16	Rating **	M	Issue No.	15 (cont)
LM End	2.16	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_39506_62064.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39506_62063.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	1
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.200907 °	37.200907 °
				-120.712978 °	-120.712978 °
DWR ID	DWR_NA0010_12_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.70	Rating **	M	Issue No.	17
LM End	2.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200906 °	37.200906 °
				-120.706316 °	-120.706316 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39890 DS_ID:19860 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.7 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70). FS Date: 4/18/2014					

Photo 1 of 2 : UCIP_SP_2016_39890_62069.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.70	Rating **	M	Issue No.	17 (cont)
LM End	2.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200906 °	37.200906 °
				-120.706316 °	-120.706316 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39890					
DS_ID:19860					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 10.7 feet below crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70).					
FS Date: 4/18/2014					

Photo 2 of 2 : UCIP_SP_2016_39890_62070.jpg



Concrete headwall and flat gate located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	19
LM End	3.00	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200931 °	37.200931 °
				-120.700908 °	-120.700908 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:46786
DS_ID:19861
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11-09-2015 DWR Inspection section confirmed issue has been addressed. Need to coordinate with LMA to determine additional details for extent of repair. 10-18-2014 Soil missing behind concrete headwall on waterward side. Unable to determine if missing soil is due to sink holes, rodent activity, or due to erosion. Headwall appears to be leaning slightly forward. Reason why this crossing was labelled urgent was due to the uncertainty of damage to concrete headwall and reason for soil missing behind concrete. Need to coordinate with LMA to determine more information about repair at this location.
FIELD_STRUCT_DESC: 24-inch CM pipe through levee, 2 feet below levee crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.00).
FS Date: 11/10/2015 9:29:00 AM

LM Start	3.00	Rating **	M	Issue No.	19 (cont)
LM End	3.00	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_46786_62073.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_46786_74729.jpg



Repair to headwall located on waterward side has been addressed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/19/2016 05/19/2016	Richard Willoughby

LM Start	3.33	Rating **	M	Issue No.	18
LM End	3.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.200954 °	37.200954 °
				-120.694795 °	-120.694795 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39893 DS_ID:19906 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Unable to confirm if crossing recorded as Unit 6 9.735 is the same as this one. No way to measure diameter crossing has slide gate on landward side. FIELD_STRUCT_DESC: [Eastside Canal Siphon] 48-inch CM pipe through levee, 17.5 feet below the crown and under the channel. Slide gate on landward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.36). FS Date: 4/18/2014					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 13 Ash Slough			Right	1.27
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2016 - 5/17/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.033723 °	37.046331 °
				-120.442164 °	-120.428130 °
DWR ID	DWR_NA0010_13_s _ 2016_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.	7
LM End	1.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.033724 °	37.046331 °
				-120.442164 °	-120.428130 °
DWR ID	DWR_NA0010_13_s _ 2016_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.15	Rating **	M	Issue No.	3
LM End	0.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.035697 °	37.035697 °
				-120.441197 °	-120.441197 °
DWR ID	DWR_NA0010_13_s _ 2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.91	Rating **	M	Issue No.	5
LM End	0.91	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.044855 °	37.044855 °
				-120.434106 °	-120.434106 °
DWR ID	DWR_NA0010_13_s_2014_5				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on waterward slope.					

LM Start	0.91	Rating **	M	Issue No.	5 (cont)
LM End	0.91	Issue Type +	En	Location *	WS

LM Start	0.91	Rating **	M	Issue No.	5 (cont)
LM End	0.91	Issue Type +	En	Location *	WS

Photo 1 of 3 : SP_2016_NA0010_131_5_20160512_00001.jpg



Looking at unauthorized ramp on waterward slope. (Fall 2014)

Photo 2 of 3 : SP_2016_NA0010_131_5_20160512_00002.jpg



Looking west at unauthorized ramp on waterward slope.

Photo 3 of 3 : SP_2016_NA0010_131_5_20160512_00003.jpg



Looking east at unauthorized ramp on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	6
LM End	1.14	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.045541 °	37.045541 °
				-120.430014 °	-120.430014 °
DWR ID	DWR_NA0010_13_f_2015_6				
Comment Code					
WL : Wall					
Inspector Comment					
Landowner built sand dam on upstream side of drop structure.					

LM Start	1.14	Rating **	U	Issue No.	6 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 1 of 5 : SP_2016_NA0010_131_6_20160512_00004.jpg



Looking south at sand dam on upstream side of structure.

Photo 2 of 5 : SP_2016_NA0010_131_6_20160512_00005.jpg



Looking south at downstream side of structure.

LM Start	1.14	Rating **	U	Issue No.	6 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 3 of 5 : SP_2016_NA0010_131_6_20160512_00006.jpg



Looking at corrugated pipe on north end on upstream side of structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	6 (cont)	
LM End	1.14	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.045541 °	37.045541 °	
				-120.430014 °	-120.430014 °	
DWR ID	DWR_NA0010_13_f_2015_6					
Comment Code						
WL : Wall						
Inspector Comment						
Landowner built sand dam on upstream side of drop structure.						

LM Start	1.14	Rating **	U	Issue No.	6 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 4 of 5 : SP_2016_NA0010_131_6_20160512_00007.jpg



Looking at corrugated pipe on north end on downstream side of structure.

Photo 5 of 5 : SP_2016_NA0010_131_6_20160512_00008.jpg



Looking at corrugated pipe on south end on downstream side of structure.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	10
LM End	1.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.045872 °	37.045872 °
				-120.430070 °	-120.430070 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39877
DS_ID:19727
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears abandoned and if so should be done so properly. Pipe filled with soil on WS at outlet. Actuator missing from slide gate on WS shoulder.
FIELD_STRUCT_DESC: 1 of 2: 36-inch C.M. stormdrain pipe through the levee, 12.3 feet below the crown. Slide gate inside 48-inch C.M. pipe riser in waterward slope. Concrete distribution box (6x12-foot) on landward side. (USACE-1967). 7'X14' concrete outlet structure on WS toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.14).
FS Date: 3/27/2014

LM Start	1.14	Rating **	M	Issue No.	10 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39877_59385.jpg



Slide gate in CMP riser on WS shoulder.

Photo 2 of 2 : UCIP_SP_2016_39877_59384.jpg



Concrete box on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	9
LM End	1.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.045870 °	37.045870 °
				-120.430080 °	-120.430080 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39524 DS_ID:19908 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No lid on riser at WS shoulder could be safety issue. FIELD_STRUCT_DESC: 2 of 2: 36-inch C.M. stormdrain pipe through the levee, 12.3 feet below the crown. Slide gate inside 48-inch C.M. pipe riser in waterward slope. Concrete distribution box (6x12-foot) on landward side. 7'X14' concrete distribution box on WS toe (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.14). FS Date: 3/27/2014					

LM Start	1.14	Rating **	M	Issue No.	9 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39524_59390.jpg



Slide gate in CMP riser without at lid on WS shoulder.

Photo 2 of 2 : UCIP_SP_2016_39524_59392.jpg



Concrete distribution box on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 14 Ash Slough			Left	1.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2016 - 5/17/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	2
LM End	1.26	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.032379 °	37.045404 °
				-120.441265 °	-120.427749 °
DWR ID	DWR_NA0010_14_f_2012_2				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Control vegetation on levee crown.					

Photo 1 of 1 : SP_2016_NA0010_132_2_20160523_00005.jpg



Looking at typical view of levee crown.

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			37.032393 °	37.045430 °
				-120.441279 °	-120.427710 °
DWR ID	DWR_NA0010_14_s_2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_132_3_20160523_00006.jpg



Looking at typical view of levee slope.

LM Start	0.00	Rating **	M	Issue No.	4
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.032394 °	37.045430 °
				-120.441279 °	-120.427711 °
DWR ID	DWR_NA0010_14_s_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_132_4_20160523_00007.jpg



Looking at typical view of waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.15	Rating **	M	Issue No.	80
LM End	1.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.044906 °	37.044906 °
				-120.429695 °	-120.429695 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39526
DS_ID:19909
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Lid should be installed on CMP riser on WS slope, could be a safety hazard. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.
FIELD_STRUCT_DESC: 36-inch CM pipe through levee, 10-feet below crown. Slide gate inside 48-inch CM pipe riser in waterward slope. Concrete distribution box (6'X7') at toe of waterward slope. Slots for wooden flashboard on waterward side of box. 7'X9' Concrete distribution box on the landward side 20-feet from toe. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.15).
FS Date: 3/27/2014

LM Start	1.15	Rating **	M	Issue No.	80 (cont)
LM End	1.15	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39526_59398.jpg



Slide gate in CMP riser and outlet/inlet structure visible in background at WS toe.

Photo 2 of 2 : UCIP_SP_2016_39526_59396.jpg



concrete inlet/outlet at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	05/17/2016 05/17/2016	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 landward at this location.					

Photo 1 of 1 : SP_2016_NA0010_132_79_20160512_00001.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 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**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 15 Berenda Slough			Right	2.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2016 - 5/17/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	4
LM End	1.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.996606 °	36.996587 °
				-120.410410 °	-120.374500 °
DWR ID	DWR_NA0010_15_s _ 2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_133_4_20160524_00009.jpg



Looking at typical view of waterward slope.

LM Start	0.00	Rating **	M	Issue No.	3
LM End	1.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.996606 °	36.996587 °
				-120.410409 °	-120.374500 °
DWR ID	DWR_NA0010_15_s _ 2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_133_3_20160524_00010.jpg



Looking at typical view of landward slope.

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					
Control vegetation on levee crown.					

Photo 1 of 2 : SP_2016_NA0010_133_11_20160512_00001.jpg



Looking east at typical view of levee in compliance with standards. Fall 2015

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	11 (cont)	
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						
Control vegetation on levee crown.						

Photo 2 of 2 : SP_2016_NA0010_133_11_20160512_00002.jpg



Looking east at vegetation on levee crown. Spring 2015

LM Start	1.00	Rating **	M	Issue No.	13
LM End	1.00	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.996566 °	36.996566 °
				-120.392280 °	-120.392280 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39527 DS_ID:19912 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 8.5 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.01). FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_SP_2016_39527_59452.jpg



Concrete headwall on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	13 (cont)	
LM End	1.00	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.996566 °		36.996566 °
				-120.392280 °		-120.392280 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39527 DS_ID:19912 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 8.5 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.01). FS Date: 3/27/2014						

Photo 2 of 2 : UCIP_SP_2016_39527_59453.jpg



Flapgate on concrete headwall at WS toe.

LM Start	1.53	Rating **	M	Issue No.	12
LM End	1.53	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.996582 °	36.996582 °
				-120.382757 °	-120.382757 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32840 DS_ID:19913 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excessive vegetation at inlet on LS toe. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through the levee, 8.9 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.53). FS Date: 3/27/2014					

Photo 1 of 2 : UCIP_SP_2016_32840_59456.jpg



Concrete headwall on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	12 (cont)
LM End	1.53	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.996582 °	36.996582 °
				-120.382757 °	-120.382757 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32840					
DS_ID:19913					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Excessive vegetation at inlet on LS toe.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. stormdrain through the levee, 8.9 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.53).					
FS Date: 3/27/2014					

Photo 2 of 2 : UCIP_SP_2016_32840_59457.jpg



Flapgate on concrete headwall at WS toe.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 16 Berenda Slough			Left	1.96
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/18/2016 - 5/18/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	7
LM End	1.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995374 °	36.995468 °
				-120.408913 °	-120.383341 °
DWR ID	DWR_NA0010_16_s _ 2016_7				
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.	3
LM End	1.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995374 °	36.995468 °
				-120.408912 °	-120.383341 °
DWR ID	DWR_NA0010_16_s _ 2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.01	Rating **	M	Issue No.	14
LM End	1.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.995388 °	36.995507 °
				-120.408738 °	-120.373592 °
DWR ID	DWR_NA0010_16_s _ 2012_14				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Control vegetation and regrade levee crown.					

Photo 1 of 1 : SP_2016_NA0010_134_14_20160524_00008.jpg



Looking at typical view of levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	05/18/2016 05/18/2016	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					
Notice several rodent holes within this section.					

Photo 1 of 1 : SP_2016_NA0010_134_92_20160512_00004.jpg



Looking at several rodent holes on landward slope.

LM Start	1.43	Rating **	U	Issue No.	5
LM End	1.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995466 °	36.995487 °
				-120.383089 °	-120.373596 °
DWR ID	DWR_NA0010_16_s _ 2016_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_134_5_20160524_00010.jpg



Looking west at dense veg on landward slope.

LM Start	1.43	Rating **	U	Issue No.	6
LM End	1.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995466 °	36.995487 °
				-120.383089 °	-120.373595 °
DWR ID	DWR_NA0010_16_s _ 2016_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_134_6_20160524_00011.jpg



Looking west at dense veg on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	93
LM End	1.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995473 °	36.995473 °
				-120.382872 °	-120.382872 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39529 DS_ID:19915 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation buildup at landside toe-- recommend clearing. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through levee, 8.5 feet below crown. Concrete "U" headwall on waterward end. Two concrete cutoff walls. Flap gate on waterward side. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.46). FS Date: 4/1/2014 8:12:00 AM					

Photo 1 of 2 : UCIP_SP_2016_39529_59681.jpg



Concrete headwall on WS toe with channel.

LM Start	1.44	Rating **	M	Issue No.	93 (cont)
LM End	1.44	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_39529_59680.jpg



Flapgate on headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.68	Rating **	M	Issue No.	4
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995503 °	36.995503 °
				-120.378579 °	-120.378579 °
DWR ID	DWR_NA0010_16_s_2014_4				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.77	Rating **	U	Issue No.	2
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995487 °	36.995487 °
				-120.377054 °	-120.377054 °
DWR ID	DWR_NA0010_16_f_2014_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landward slope.					

Photo 1 of 2 : SP_2016_NA0010_134_2_20160512_00001.jpg



Looking at large rodent holes on landward slope.

Photo 2 of 2 : SP_2016_NA0010_134_2_20160512_00002.jpg



Looking southwest at several rodent holes on landward slope.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 17 Chowchilla Canal Bypass			Right	16.09
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/18/2016 - 5/18/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	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			36.976460 °	36.774431 °
				-120.374695 °	-120.283758 °
DWR ID	DWR_NA0010_17_s _ 2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_135_13_20160524_00027.jpg



Looking at typical view of landward slope.

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			36.976460 °	36.774431 °
				-120.374695 °	-120.283758 °
DWR ID	DWR_NA0010_17_s _ 2016_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_135_14_20160524_00026.jpg



Looking at typical view of waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	15
LM End	2.57	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.952254 °	36.952254 °
				-120.348804 °	-120.348804 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39531 DS_ID:19916 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 14.6 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.58). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39531_59710.jpg



Concrete headwall at channel on WS toe.

LM Start	2.57	Rating **	M	Issue No.	15 (cont)
LM End	2.57	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_39531_59711.jpg



Flapgate on Concrete headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	Richard Willoughby

LM Start	7.27	Rating **	M	Issue No.	5
LM End	7.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.887869 °	36.886341 °
				-120.321697 °	-120.320940 °
DWR ID	DWR_NA0010_17_s_2012_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Notice several rodent holes within this reach.					

Photo 1 of 1 : SP_2016_NA0010_135_5_20160512_00004.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	9.88	Rating **	M	Issue No.	16
LM End	9.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.850703 °	36.850703 °
				-120.314154 °	-120.314154 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39532 DS_ID:19917 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15-feet below the crown. Concrete "U" headwall on the waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.89). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39532_59723.jpg



Concrete headwall and channel on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	Richard Willoughby

LM Start	9.88	Rating **	M	Issue No.	16 (cont)	
LM End	9.88	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.850703 °	36.850703 °	
				-120.314154 °	-120.314154 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39532						
DS_ID:19917						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15-feet below the crown. Concrete "U" headwall on the waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.89).						
FS Date: 4/1/2014						

Photo 2 of 2 : UCIP_SP_2016_39532_59724.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	12.34	Rating **	M	Issue No.	3
LM End	12.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.820558 °	36.820155 °
				-120.300616 °	-120.300784 °
DWR ID	DWR_NA0010_17_s_2014_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes with this reach.					

Photo 1 of 2 : SP_2016_NA0010_135_3_20160512_00001.jpg



Looking at typical view of rodent holes on landward slope. Fall 2015

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	Richard Willoughby

LM Start	12.34	Rating **	M	Issue No.	3 (cont)	
LM End	12.37	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			36.820558 °		36.820155 °
				-120.300616 °		-120.300784 °
DWR ID	DWR_NA0010_17_s_2014_3					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Noted several rodent holes with this reach.						

Photo 2 of 2 : SP_2016_NA0010_135_3_20160512_00002.jpg



Looking at several rodent holes on landward slope. Spring 2015

LM Start	13.29	Rating **	M	Issue No.	17
LM End	13.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.807509 °	36.807509 °
				-120.306231 °	-120.306231 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39533 DS_ID:19918 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some vegetation buildup at inlet--recommend clearing. FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15.3 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.30). FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39533_59727.jpg



Concrete headwall on WS toe.

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	Richard Willoughby

LM Start	13.29	Rating **	M	Issue No.	17 (cont)	
LM End	13.29	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.807509 °		36.807509 °
				-120.306231 °		-120.306231 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39533 DS_ID:19918 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some vegetation buildup at inlet--recommend clearing. FIELD_STRUCT_DESC: 48x60-inch R.C.B.C. through the levee, 15.3 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.30). FS Date: 4/1/2014						

Photo 2 of 2 : UCIP_SP_2016_39533_59726.jpg



Concrete headwall on LS toe.

LM Start	14.38	Rating **	M	Issue No.	20
LM End	14.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.793318 °	36.793318 °
				-120.302138 °	-120.302138 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41406 DS_ID:24850 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: Gas line through the levee at an unknown depth. Gas line markers on both shoulders. FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_41406_71490.jpg



Gasline marker on WS slope..

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	Richard Willoughby

LM Start	14.38	Rating **	M	Issue No.	20 (cont)	
LM End	14.38	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.793318 °	36.793318 °	
				-120.302138 °	-120.302138 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41406						
DS_ID:24850						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: Gas line through the levee at an unknown						
depth. Gas line markers on both shoulders.						
FS Date: 4/1/2014						

Photo 2 of 2 : UCIP_SP_2016_41406_71489.jpg



Gasline marker on LS shoulder.

LM Start	14.39	Rating **	U	Issue No.	18
LM End	14.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.793195 °	36.793195 °
				-120.302028 °	-120.302028 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39534 DS_ID:19562 EP_NO: 18568 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 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. FIELD_STRUCT_DESC: 30-inch steel gas pipeline through the levee approximately 60-feet below the crown. Location markers on waterside and landside. Provide field description of crossing. (Permit No. 18568-2010) FS Date: 4/1/2014					

Photo 1 of 2 : UCIP_SP_2016_39534_59742.jpg



Gasline marker and concrete sump off LS toe.

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

Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/18/2016 05/18/2016	Richard Willoughby

LM Start	14.69	Rating **	M	Issue No.	19 (cont)
LM End	14.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.789066 °	36.789066 °
				-120.300644 °	-120.300644 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39535 DS_ID:19920 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy vegetation buildup at LS toe--recommend clearing. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 14.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.69). FS Date: 4/1/2014					

Photo 2 of 2 : UCIP_SP_2016_39535_59747.jpg



Flapgate on Concrete headwall at WS toe.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 18 Chowchilla Canal Bypass			Left	15.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/18/2016 - 5/18/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	10
LM End	15.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.974113 °	36.773466 °
				-120.363239 °	-120.285220 °
DWR ID	DWR_NA0010_18_s _ 2016_10				
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.	11
LM End	15.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.974113 °	36.773465 °
				-120.363239 °	-120.285221 °
DWR ID	DWR_NA0010_18_s _ 2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.44	Rating **	M	Issue No.	7
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.956163 °	36.956163 °
				-120.353672 °	-120.353672 °
DWR ID	DWR_NA0010_18_s _ 2014_7				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several noted on landward slope and on levee crown.					

Photo 1 of 1 : SP_2016_NA0010_137_7_20160512_00002.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.52	Rating **	M	Issue No.	12
LM End	1.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.955081 °	36.955081 °
				-120.353025 °	-120.353025 °
DWR ID	DWR_NA0010_18_s_2016_12				
Comment Code					
FE : Fence					
Inspector Comment					
Animal pen at landward toe.					

Photo 1 of 1 : SP_2016_NA0010_137_12_20160524_00017.jpg



Looking west at new animal pen at landward toe.

LM Start	1.53	Rating **	U	Issue No.	3
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.954907 °	36.954907 °
				-120.352920 °	-120.352920 °
DWR ID	DWR_NA0010_18_s_2016_3				
Comment Code					
FW : Firewood					
Inspector Comment					
Firewood stock pile at landward toe.					

Photo 1 of 1 : SP_2016_NA0010_137_3_20160524_00018.jpg



Looking northwest at firewood stock pile 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.69	Rating **	M	Issue No.	14
LM End	1.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.952821 °	36.952821 °
				-120.351597 °	-120.351597 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39503 DS_ID:19925 EP_NO: 6603 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Appears abandoned--good candidate for video or pressure inspection. This crossings is the same age as the pipe that has failed immediately upstream. FIELD_STRUCT_DESC: 15-inch steel pipe through the levee, 4.3 feet below the crown. Electrical conduit through the levee, 4.3 feet below the crown. Siphon breaker on landward shoulder. 36-inch concrete standpipe on landward berm. Inlet facility on waterward bank consisting of pump, 42-inch concrete standpipe, and 20-inch concrete channel intake pipe with cutoff wall. (Permit No. 6603-1970) FS Date: 4/10/2014					

Photo 1 of 2 : UCIP_SP_2016_39503_66660.jpg



Overview of levee crown at crossing.

LM Start	1.69	Rating **	M	Issue No.	14 (cont)
LM End	1.69	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39503_66657.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

LM Start	2.25	Rating **	U	Issue No.	16
LM End	2.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.945577 °	36.945577 °
				-120.347140 °	-120.347140 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:43089
DS_ID:19926
EP_NO: 6603
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 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.
FIELD_STRUCT_DESC: 15-inch steel pipe through the levee, 3.7 feet below the crown. Electrical conduit through the levee, 3.7 feet below the crown. Siphon breaker on landward shoulder. 36-inch concrete standpipe on landward berm. Inlet facility on waterward bank consisting of pump, 42-inch concrete standpipe, and 20-inch concrete channel intake pipe with cutoff wall. (Permit No. 6603-1970)
FS Date: 4/10/2014

LM Start	2.25	Rating **	U	Issue No.	16 (cont)
LM End	2.25	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_43089_60558.jpg



Overview of landward side--site modified.

Photo 2 of 2 : UCIP_SP_2016_43089_60559.jpg



View of levee crown at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

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.						

LM Start	2.25	Rating **	U	Issue No.	8 (cont)
LM End	2.25	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_NA0010_137_8_20160512_00003.jpg



Looking at large rodent hole on landward slope.

Photo 2 of 2 : SP_2016_NA0010_137_8_20160512_00004.jpg



Looking at close-up view of large rodent hole on landward slope.

LM Start	5.89	Rating **	M	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 landward slope and berm within this section.					

Photo 1 of 1 : SP_2016_NA0010_137_1_20160512_00001.jpg



Looking at several rodent holes on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

LM Start	6.52	Rating **	M	Issue No.	9
LM End	6.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.886767 °	36.886767 °
				-120.323482 °	-120.323482 °
DWR ID	DWR_NA0010_18_f_2014_9				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.54	Rating **	M	Issue No.	13
LM End	7.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.872431 °	36.872431 °
				-120.319415 °	-120.319415 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36843 DS_ID:19930 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: CMP crossing is distorted on waterward side. Debris scattered on landward side. Sediment deposit inside crossing visible from landward side. Recommend removing debris from landward side. FIELD_STRUCT_DESC: 42-inch concrete pipe through the levee, 19.0 feet below the crown. Gate structure on waterward shoulder. Pipe section on waterward side is corrugated metal and pipe section on lanward side is reinforced concrete. (Permit No. 13548-1984, New Stone Water District) FS Date: 4/10/2014					

Photo 1 of 2 : UCIP_SP_2016_36843_67202.jpg



Overview of levee crown at crossing--slide gate inside concrete box located on waterward shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

LM Start	7.54	Rating **	M	Issue No.	13 (cont)	
LM End	7.54	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.872431 °	36.872431 °	
				-120.319415 °	-120.319415 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36843 DS_ID:19930 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: CMP crossing is distorted on waterward side. Debris scattered on landward side. Sediment deposit inside crossing visible from landward side. Recommend removing debris from landward side. FIELD_STRUCT_DESC: 42-inch concrete pipe through the levee, 19.0 feet below the crown. Gate structure on waterward shoulder. Pipe section on waterward side is corrugated metal and pipe section on lanward side is reinforced concrete. (Permit No. 13548-1984, New Stone Water District) FS Date: 4/10/2014						

Photo 2 of 2 : UCIP_SP_2016_36843_67205.jpg



Pipe section distorted on waterward side.

LM Start	13.59	Rating **	M	Issue No.	15
LM End	13.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.792684 °	36.792684 °
				-120.304542 °	-120.304542 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39505					
DS_ID:19932					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Multiple markers visible along waterward and landward sides unable to confirm how many crossings go through levee. Need to contact owner to obtain additional details on crossings.					
FIELD_STRUCT_DESC: 6-inch gas line through the levee. Extends underneath the channel.					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_39505_67226.jpg



Markers visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	05/18/2016 05/18/2016	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	15 (cont)	
LM End	13.59	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.792684 °	36.792684 °	
				-120.304542 °	-120.304542 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39505						
DS_ID:19932						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Multiple markers visible along waterward and landward sides unable to confirm how many crossings go through levee. Need to contact owner to obtain additional details on crossings.						
FIELD_STRUCT_DESC: 6-inch gas line through the levee. Extends underneath the channel.						
FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_SP_2016_39505_67225.jpg



View of levee crown at crossing.

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 22A East Side Canal			Left	5.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/17/2016 - 5/17/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	5.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.205992 °	37.272398 °
				-120.697018 °	-120.741902 °
DWR ID	DWR_NA0010_22A_s_2016_13				
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.	14
LM End	5.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.205992 °	37.272398 °
				-120.697018 °	-120.741902 °
DWR ID	DWR_NA0010_22A_s_2016_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.10	Rating **	U	Issue No.	263
LM End	0.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.207039 °	37.207039 °
				-120.696255 °	-120.696255 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39874 DS_ID:19933 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: No actuator wheel on slide gate at WS shoulder. FIELD_STRUCT_DESC: 24-inch CM stormdrain pipe through the levee, 14.8 feet below the crown. Slide gate inside 36-inch CM pipe riser in the waterward slope. Concrete "U" headwalls on both ends. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.10). FS Date: 4/15/2014					

LM Start	0.10	Rating **	U	Issue No.	263 (cont)
LM End	0.10	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39874_61060.jpg



PVC pipes sticking up out of channel likely indicate pipe location on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39874_61061.jpg



Concrete headwall at toe of LS 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.53	Rating **	U	Issue No.	21
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.213006 °	37.213006 °
				-120.698019 °	-120.698019 °
DWR ID	DWR_NA0010_22A_f _ 2014_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope.					

Photo 1 of 2 : SP_2016_NA0010_138_21_20160512_00009.jpg



Looking at dense vegetation on landward slope. Fall 2015

LM Start	0.53	Rating **	U	Issue No.	21 (cont)
LM End	0.53	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_NA0010_138_21_20160512_00010.jpg



Looking south at dense vegetation on landward slope. Spring 2015

LM Start	0.87	Rating **	M	Issue No.	23
LM End	0.87	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.217802 °	37.217802 °
				-120.697416 °	-120.697416 °
DWR ID	DWR_NA0010_22A_f_2014_23				
Comment Code					
SI : Sign					
Inspector Comment					
Pulley on waterward shouder without board permit.					

Photo 1 of 1 : SP_2016_NA0010_138_23_20160512_00011.jpg



Looking south at pulley on waterward shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	0.96	Rating **	C	Issue No.	22
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.219137 °	37.219137 °
				-120.697857 °	-120.697857 °
DWR ID	DWR_NA0010_22A_f_2014_22				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
LMA repaired slope damage.					

No Photos

LM Start	1.57	Rating **	M	Issue No.	261
LM End	1.57	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.227588 °	37.227588 °
				-120.700945 °	-120.700945 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33733 DS_ID:19936 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate rusted and does not function. Headwall buried at LS toe. Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch CM irrigation pipe through levee, 7.0-feet below the crown. Slide gate inside 36-inch CM pipe riser in the waterward slope. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.57). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_SP_2016_33733_61030.jpg



Pipe and CMP riser with slide gate visible on WS 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	1.57	Rating **	M	Issue No.	261 (cont)	
LM End	1.57	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.227588 °	37.227588 °	
				-120.700945 °	-120.700945 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33733 DS_ID:19936 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate rusted and does not function. Headwall buried at LS toe. Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch CM irrigation pipe through levee, 7.0-feet below the crown. Slide gate inside 36-inch CM pipe riser in the waterward slope. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.57). FS Date: 4/15/2014						

Photo 2 of 2 : UCIP_SP_2016_33733_61029.jpg



Inside CMP riser on WS shoulder.

LM Start	2.71	Rating **	M	Issue No.	260
LM End	2.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243501 °	37.243501 °
				-120.706773 °	-120.706773 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33732 DS_ID:19937 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate does not function and should be repaired. Headwall at LS toe not found. FIELD_STRUCT_DESC: 24-inch CM irrigation pipe through the levee, 7.5-feet below the crown. Slide gate inside 36-inch CM pipe riser in the waterward slope. Concrete "U" headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.72). FS Date: 4/15/2014					

Photo 1 of 2 : UCIP_SP_2016_33732_61026.jpg



Slidegate in CMP riser on WS shoulder. (Note: actuator does not work).

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	2.71	Rating **	M	Issue No.	260 (cont)
LM End	2.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.243501 °	37.243501 °
				-120.706773 °	-120.706773 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33732					
DS_ID:19937					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gate does not function and should be repaired.					
Headwall at LS toe not found.					
FIELD_STRUCT_DESC: 24-inch CM irrigation pipe through the levee,					
7.5-feet below the crown. Slide gate inside 36-inch CM pipe riser in the					
waterward slope. Concrete "U" headwall on the landward end. (USACE-					
1967). This entry matches the Drainage or Irrigation Structure					
referenced in O&M manual (HLM 2.72).					
FS Date: 4/15/2014					

Photo 2 of 2 : UCIP_SP_2016_33732_61024.jpg



Inside CMP riser on WS shoulder.

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					
Noted several rodent holes on landward slope and toe.					

Photo 1 of 1 : SP_2016_NA0010_138_15_20160512_00008.jpg



Looking at several rodent holes on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	3.14	Rating **	A/W	Issue No.	2
LM End	3.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.248208 °	37.248208 °
				-120.711500 °	-120.711500 °
DWR ID	DWR_NA0010_22A_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

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

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 waterward slope.					

Photo 1 of 1 : SP_2016_NA0010_138_259_20160512_00012.jpg



Looking east at dead stump on waterward slope.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	3.82	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			37.255246 °	37.267962 °
				-120.720110 °	-120.736909 °
DWR ID	DWR_NA0010_22A_s_2012_10				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_138_10_20160524_00025.jpg



Looking west at typical rutting on levee crown.

LM Start	5.03	Rating **	M	Issue No.	12
LM End	5.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.267271 °	37.267271 °
				-120.736067 °	-120.736067 °
DWR ID	DWR_NA0010_22A_s_2014_12				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by animal traffic.					

Photo 1 of 1 : SP_2016_NA0010_138_12_20160512_00007.jpg



Looking south at slope damage cause by animal traffic on waterside 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_2016_NA0010_138_4_20160512_00001.jpg



Looking southeast at livestock erosion on waterward toe.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	5.05	Rating **	M	Issue No.	4 (cont)	
LM End	5.05	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.267516 °		37.267516 °
				-120.736401 °		-120.736401 °
DWR ID	DWR_NA0010_22A_f _ 2013_4					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion caused by animal traffic.						

Photo 2 of 2 : SP_2016_NA0010_138_4_20160512_00002.jpg



Looking south livestock erosion on waterward toe.

LM Start	5.14	Rating **	M	Issue No.	6
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.268492 °	37.269133 °
				-120.737493 °	-120.738208 °
DWR ID	DWR_NA0010_22A_s_2012_6				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					
Slope damage caused by livestock on waterside toe.					

Photo 1 of 2 : SP_2016_NA0010_138_6_20160512_00005.jpg



Looking south at livestock erosion on waterward toe.

LM Start	5.14	Rating **	M	Issue No.	6 (cont)
LM End	5.20	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_NA0010_138_6_20160512_00006.jpg



Looking north at livestock erosion along waterside slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	05/17/2016 05/17/2016	Richard Willoughby

LM Start	5.48	Rating **	M	Issue No.	262
LM End	5.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.272079 °	37.272079 °
				-120.741575 °	-120.741575 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39536 DS_ID:19938 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Pipe silted in on LS toe. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 48-inch CM irrigation pipe through the levee, 10 feet below the crown. Slide gate inside 60-inch CM pipe riser in the waterward slope. Concrete headwall on the landward end. Waterward end capped with 1/4-inch steel plate. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.48). FS Date: 4/15/2014					

LM Start	5.48	Rating **	M	Issue No.	262 (cont)
LM End	5.48	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39536_61022.jpg



Slidegate inside riser on WS shoulder.

Photo 2 of 2 : UCIP_SP_2016_39536_61021.jpg



Inside riser on WS shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 23 San Joaquin River			Right	10.24
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/18/2016 - 5/18/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	23
LM End	10.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774431 °	36.814800 °
				-120.283759 °	-120.168948 °
DWR ID	DWR_NA0010_23_s _ 2016_23				
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.	26
LM End	10.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774431 °	36.814800 °
				-120.283759 °	-120.168948 °
DWR ID	DWR_NA0010_23_s _ 2016_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.21	Rating **	M	Issue No.	36
LM End	0.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.772713 °	36.772713 °
				-120.280670 °	-120.280670 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39537 DS_ID:19945 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excessive vegetation at inlet--recommend clearing. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 13.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.21). Cleaned and rehabilitated under Permit No. 13085 (1981). FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_SP_2016_39537_59860.jpg



Concrete headwall on WS toe at channel.

LM Start	0.21	Rating **	M	Issue No.	36 (cont)
LM End	0.21	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_39537_59859.jpg



Flapgate on Concrete headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

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 landward toe.					

Photo 1 of 1 : SP_2016_NA0010_139_6_20160512_00006.jpg



Looking at elderberry on landward toe.

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 landward toe. Trench is ten to twelve inches wide and twenty feet long.					

Photo 1 of 3 : SP_2016_NA0010_139_29_20160512_00022.jpg



Looking south at trench at landward toe. (Spring 2015)

LM Start	1.53	Rating **	U	Issue No.	29 (cont)
LM End	1.53	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2016_NA0010_139_29_20160512_00023.jpg



Looking south 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	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	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 landward toe. Trench is ten to twelve inches wide and twenty feet long.						

Photo 3 of 3 : SP_2016_NA0010_139_29_20160512_00024.jpg



Looking north 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 landward berm.					

Photo 1 of 3 : SP_2016_NA0010_139_24_20160512_00018.jpg



Looking southeast at large pot hole on landward berm.

LM Start	1.54	Rating **	U	Issue No.	24 (cont)
LM End	1.54	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2016_NA0010_139_24_20160512_00019.jpg



Looking south west at large pot hole on landward berm.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.54	Rating **	U	Issue No.	24 (cont)	
LM End	1.54	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.771922 °		36.771922 °
				-120.259321 °		-120.259321 °
DWR ID	DWR_NA0010_23_f_2015_24					
Comment Code						
DT : Ditch						
Inspector Comment						
Landowner digging at landward berm.						

Photo 3 of 3 : SP_2016_NA0010_139_24_20160512_00020.jpg



Looking south at trench on landward berm.

LM Start	1.63	Rating **	M	Issue No.	37
LM End	1.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.771408 °	36.771408 °
				-120.257899 °	-120.257899 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39538 DS_ID:19948 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done properly. Discharge channel is blocked by sand and soil making drain ineffective. Soil buildup at inlet on LS toe. Need to contact owner. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 11.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_SP_2016_39538_59855.jpg



Concrete headwall on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.63	Rating **	M	Issue No.	37 (cont)	
LM End	1.63	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.771408 °		36.771408 °
				-120.257899 °		-120.257899 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39538						
DS_ID:19948						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be done properly. Discharge channel is blocked by sand and soil making drain ineffective. Soil buildup at inlet on LS toe. Need to contact owner.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 11.0 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end.						
FS Date: 4/3/2014						

Photo 2 of 2 : UCIP_SP_2016_39538_59857.jpg



Flapgate on Concrete headwall at WS toe.

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	Trim / Thin Trees			36.772943 °	36.772943 °
				-120.253511 °	-120.253511 °
DWR ID	DWR_NA0010_23_s_2015_1				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on waterward slope					

Photo 1 of 1 : SP_2016_NA0010_139_1_20160512_00001.jpg



Looking at untrimmed tree on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	16
LM End	2.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.775507 °	36.774423 °
				-120.251672 °	-120.246993 °
DWR ID	DWR_NA0010_23_s _ 2013_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Several damaged sites within this reach. Damage caused by vehicle traffic. At. LM. 2.12, 2.21, 2.37, & 2.41					

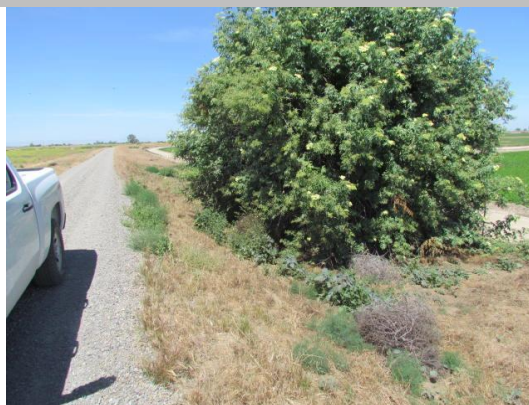
Photo 1 of 1 : SP_2016_NA0010_139_16_20160524_00052.jpg



Looking west at one of several slope damaged cause by vehicle traffic.

LM Start	2.85	Rating **	U	Issue No.	15
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.771537 °	36.771537 °
				-120.240917 °	-120.240917 °
DWR ID	DWR_NA0010_23_s _ 2012_15				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry bush on landward toe.					

Photo 1 of 3 : SP_2016_NA0010_139_15_20160524_00053.jpg



Looking north at elderberry at landward toe. (Spring 2016)

LM Start	2.85	Rating **	U	Issue No.	15 (cont)
LM End	2.85	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2016_NA0010_139_15_20160512_00014.jpg



Looking south at elderberry at landward toe. (Spring 2015)

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	2.85	Rating **	U	Issue No.	15 (cont)	
LM End	2.85	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			36.771537 °		36.771537 °
				-120.240917 °		-120.240917 °
DWR ID	DWR_NA0010_23_s _ 2012_15					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						
Control growth of elderberry bush on landward toe.						

Photo 3 of 3 : SP_2016_NA0010_139_15_20160512_00015.jpg



Looking south at elderberry on landside toe and berm. (Fall 2014)

LM Start	3.30	Rating **	U	Issue No.	3
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774403 °	36.774403 °
				-120.234705 °	-120.234705 °
DWR ID	DWR_NA0010_23_s _ 2012_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landward toe.					

Photo 1 of 4 : SP_2016_NA0010_139_3_20160524_00054.jpg



Looking south at elderberry on landward toe and berm. (Spring 2016)

LM Start	3.30	Rating **	U	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP_2016_NA0010_139_3_20160512_00002.jpg



Looking south at elderberry on landward toe and berm. (Spring 2015)

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	3.30	Rating **	U	Issue No.	3 (cont)	
LM End	3.30	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			36.774403 °		36.774403 °
				-120.234705 °		-120.234705 °
DWR ID	DWR_NA0010_23_s_2012_3					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						
Control growth of elderberry on landward toe.						

LM Start	3.30	Rating **	U	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP_2016_NA0010_139_3_20160512_00003.jpg



Looking south at elderberry on landside toe and berm. (Fall 2014)

Photo 4 of 4 : SP_2016_NA0010_139_3_20160512_00004.jpg



Looking south at elderberry bush on landward toe. (Spring 2013)

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 landward toe and berm.					

Photo 1 of 1 : SP_2016_NA0010_139_9_20160512_00007.jpg



Looking south at elderberry on landside toe and berm.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	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 landward toe.					

LM Start	4.13	Rating **	U	Issue No.	10 (cont)
LM End	4.13	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : SP_2016_NA0010_139_10_20160524_00055.jpg



Looking south at elderberry bush on landward toe. (Spring 2016)

Photo 2 of 3 : SP_2016_NA0010_139_10_20160512_00009.jpg



Looking south at elderberry on landside toe and berm. (Spring 2015)

Photo 3 of 3 : SP_2016_NA0010_139_10_20160512_00008.jpg



Looking south at elderberry bush on landward toe. (Fall 2013)

LM Start	4.13	Rating **	U	Issue No.	10 (cont)
LM End	4.13	Issue Type +	Ma	Location *	LS

* 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

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 landward toe and berm.					

LM Start	4.45	Rating **	M	Issue No.	11 (cont)
LM End	4.45	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_NA0010_139_11_20160512_00010.jpg



Looking south at elderberry on landward toe and berm. (Spring 2015)

Photo 2 of 2 : SP_2016_NA0010_139_11_20160512_00011.jpg



Looking south at elderberry on landside toe and berm.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	4.71	Rating **	M	Issue No.	39
LM End	4.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.787713 °	36.787713 °
				-120.221399 °	-120.221399 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41827					
DS_ID:19952					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Verify abandonment with gas company. Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.					
FIELD_STRUCT_DESC: 4-inch gas line through the levee, 6.0 feet below the crown. Gas line gaging area and compressor station in the channel 50 feet from the waterward toe.					
FS Date: 4/3/2014					

No Photos

LM Start	4.85	Rating **	M	Issue No.	38
LM End	4.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.789550 °	36.789550 °
				-120.220367 °	-120.220367 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39540					
DS_ID:19953					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Heavy vegetation at inlet and outlet--recommend clearing.					
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 10.7 feet below the crown. Concrete "U" headwall on both ends. 4.5'X7'					
Concrete riser with slide gate on the waterward slope. Inlet channel cobble revetted 15.0 feet long.					
FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_SP_2016_39540_59848.jpg



Slide gate in concrete riser on WS shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	4.85	Rating **	M	Issue No.	38 (cont)	
LM End	4.85	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.789550 °		36.789550 °
				-120.220367 °		-120.220367 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39540						
DS_ID:19953						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Heavy vegetation at inlet and outlet--recommend clearing.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 10.7 feet below the crown. Concrete "U" headwall on both ends. 4.5'X7' Concrete riser with slide gate on the waterward slope. Inlet channel cobble revetted 15.0 feet long.						
FS Date: 4/3/2014						

Photo 2 of 2 : UCIP_SP_2016_39540_59847.jpg



Heavy vegetation in outlet/channel on WS toe.

LM Start	5.68	Rating **	U	Issue No.	5
LM End	5.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.791981 °	36.791981 °
				-120.206274 °	-120.206274 °
DWR ID	DWR_NA0010_23_s_2012_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes in this area.					

Photo 1 of 1 : SP_2016_NA0010_139_5_20160512_00005.jpg



Looking at several rodent holes on landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	5.68	Rating **	M	Issue No.	32
LM End	5.68	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.791936 °	36.791936 °
				-120.206226 °	-120.206226 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39542 DS_ID:19954 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch square R.C.B.C through the levee 9.0 feet below the crown. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Outlet channel cobble revetted 5.0 feet long. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.71). FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_SP_2016_39542_59830.jpg



Concrete headwall on WS toe.

LM Start	5.68	Rating **	M	Issue No.	32 (cont)
LM End	5.68	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_39542_59829.jpg



Flapgate on Concrete headwall on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	7.06	Rating **	M	Issue No.	33
LM End	7.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.778783 °	36.778783 °
				-120.192447 °	-120.192447 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39543 DS_ID:19939 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 8.5 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. FS Date: 4/3/2014					

LM Start	7.06	Rating **	M	Issue No.	33 (cont)
LM End	7.06	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39543_59826.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39543_59828.jpg



Flapgate on Concrete headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	8.32	Rating **	M	Issue No.	34
LM End	8.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.792476°	36.792476°
				-120.181255°	-120.181255°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39544 DS_ID:19940 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup at inlet at LS toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 5.2 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwalls on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.33). FS Date: 4/3/2014					

LM Start	8.32	Rating **	M	Issue No.	34 (cont)
LM End	8.32	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_39544_59823.jpg



Flapgate on WS toe.

Photo 2 of 2 : UCIP_SP_2016_39544_59821.jpg



concrete headwall at drainage ditch on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	8.52	Rating **	M	Issue No.	35
LM End	8.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.794108 °	36.794108 °
				-120.178171 °	-120.178171 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39545 DS_ID:19941 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 5.6 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.54). FS Date: 4/3/2014					

Photo 1 of 2 : UCIP_SP_2016_39545_59817.jpg



Concrete headwall on WS toe.

LM Start	8.52	Rating **	M	Issue No.	35 (cont)
LM End	8.52	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_39545_59819.jpg



Flapgate on Concrete headwall at WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	31
LM End	9.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.807768 °	36.807768 °
				-120.168848 °	-120.168848 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:33066
DS_ID:19943
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: Slide gate not functional. Slide gate channels heavily corroded (exfoliated) and likely impact functionality/structural integrity of gate.
FIELD_STRUCT_DESC: 1 of 2: 5.25 x 4 foot R.C.B.C. through the levee, 10.0 feet below the crown. Concrete "U" headwall on the waterward end. Gear pedestal slide gate with wall bracket on the waterward headwall. Concrete "U" headwall on the landward end. Outlet channel cobble revetted 10.0 feet long. Guard rails on both shoulders. Slide gates on waterward side. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.76). [Gravelly Ford Canal Irrigation Structure]
FS Date: 4/3/2014

LM Start	9.75	Rating **	U	Issue No.	31 (cont)
LM End	9.75	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_33066_59810.jpg



Slide gate actuator visible on WS shoulder with concrete headwall.

Photo 2 of 2 : UCIP_SP_2016_33066_59809.jpg



Slide gate on concrete 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 : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	05/18/2016 05/18/2016	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	30
LM End	9.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.807777 °	36.807777 °
				-120.168843 °	-120.168843 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33063					
DS_ID:19980					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Slide gate not functional. Slide gate channels heavily corroded (exfoliated) and likely impact functionality/structural integrity of gate.					
FIELD_STRUCT_DESC: 2 of 2: 48x63-inch R.C.B.C. through the levee, 10.0 feet below the crown. Concrete "U" headwall on the waterward end. Gear pedestal slide gate with wall bracket on the waterward headwall. Concrete "U" headwall on the landward end. Outlet channel cobble revetted 10.0 feet long. Guardrails on both shoulders. [Gravelly Ford Canal Irrigation Structure]					
FS Date: 4/3/2014					

LM Start	9.75	Rating **	U	Issue No.	30 (cont)
LM End	9.75	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_33063_59802.jpg



Slide gate actuators on Concrete headwall at WS shoulder.

Photo 2 of 2 : UCIP_SP_2016_33063_59801.jpg



Slide gates on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 24 San Joaquin River			Left	8.36
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/18/2016 - 5/18/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	18
LM End	8.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.773205 °	36.778302 °
				-120.285222 °	-120.183975 °
DWR ID	DWR_NA0010_24_s _ 2016_18				
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.	19
LM End	8.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.773205 °	36.778302 °
				-120.285222 °	-120.183975 °
DWR ID	DWR_NA0010_24_s _ 2016_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.06	Rating **	M	Issue No.	47
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.772328 °	36.772328 °
				-120.285117 °	-120.285117 °
DWR ID	DWR_NA0010_24_s _ 2014_47				
Comment Code					
MA : Material					
Inspector Comment					
District constructed a berm on waterward slope. Berm is being used for staging of earthen material.					

Photo 1 of 2 : SP_2016_NA0010_140_47_20160512_00010.jpg



Looking south at berm on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.06	Rating **	M	Issue No.	47 (cont)	
LM End	0.06	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			36.772328 °	36.772328 °	
				-120.285117 °	-120.285117 °	
DWR ID	DWR_NA0010_24_s_2014_47					
Comment Code						
MA : Material						
Inspector Comment						
District constructed a berm on waterward slope. Berm is being used for staging of earthen material.						

Photo 2 of 2 : SP_2016_NA0010_140_47_20160512_00011.jpg



Looking north at berm on waterward slope.

LM Start	0.50	Rating **	M	Issue No.	268	
LM End	0.50	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.766872 °	36.766872 °	
				-120.283212 °	-120.283212 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33264 DS_ID:19955 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access available to confirm condition of landward side headwall. Recommend clearing debris along fence. Surface erosion near concrete headwall on landward side was present. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.5 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterward end. FS Date: 4/8/2014						

Photo 1 of 2 : UCIP_SP_2016_33264_60059.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	0.50	Rating **	M	Issue No.	268 (cont)	
LM End	0.50	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.766872 °	36.766872 °	
				-120.283212 °	-120.283212 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33264						
DS_ID:19955						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No access available to confirm condition of landward side headwall. Recommend clearing debris along fence. Surface erosion near concrete headwall on landward side was present.						
FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee, 13.5 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterward end.						
FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_SP_2016_33264_60057.jpg



Square gate visible on waterward side.

LM Start	0.82	Rating **	M	Issue No.	6
LM End	0.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.766775 °	36.766775 °
				-120.278757 °	-120.278757 °
DWR ID	DWR_NA0010_24_s_2013_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes within this section.					

Photo 1 of 1 : SP_2016_NA0010_140_6_20160512_00005.jpg



Looking at several rodent holes on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	269
LM End	1.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.769574 °	36.769574 °
				-120.276253 °	-120.276253 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33265 DS_ID:19961 EP_NO: 13735 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine status of crossing. Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 2-feet below the crown. Roadway on crown has been padded 1-foot. Siphon breaker on the apex of pipeline on landward shoulder. Galvanized siphon vent pipe on the landward shoulder. Steel cutoff wall around the pipeline at centerline of levee. Pump on landward side. (Permit No. 13735-1984). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_33265_60065.jpg



View of landward side.

LM Start	1.06	Rating **	M	Issue No.	269 (cont)
LM End	1.06	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_33265_60064.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	270
LM End	1.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.771065 °	36.771065 °
				-120.266294 °	-120.266294 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33266					
DS_ID:19962					
EP_NO: 13085					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to contact owner to determine status.					
FIELD_STRUCT_DESC: 20-inch steel discharge pipe through the levee, 2-feet below the crown. Siphon breaker installed on apex of pipe on the landward shoulder. Steel cutoff wall placed around pipeline at each shoulder. Pipeline encased through the levee crown in concrete. Vent pipe on landward side. Rock riprap on the waterward levee slope. (Permit No. 13085-1981).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_33266_60069.jpg



Overview of levee crown at crossing.

LM Start	1.75	Rating **	M	Issue No.	270 (cont)
LM End	1.75	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_33266_60070.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	2.69	Rating **	M	Issue No.	271
LM End	2.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.771742 °	36.771742 °
				-120.250929 °	-120.250929 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33267 DS_ID:19963 EP_NO: 13735 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 2-feet below the crown. Roadway on crown has been padded 1-foot. Siphon breaker on the apex of pipeline on landward shoulder. Galvanized siphon vent pipe on the landward shoulder. Steel cutoff wall around the pipeline at centerline of levee. Pump on landward side. (Permit No. 13735-1984). FS Date: 4/8/2014					

LM Start	2.69	Rating **	M	Issue No.	271 (cont)
LM End	2.69	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_33267_60075.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_SP_2016_33267_60076.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	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 landward slope.					

Photo 1 of 1 : SP_2016_NA0010_140_7_20160512_00006.jpg



Looking east at one of several rodent holes on landward slope.

LM Start	4.06	Rating **	M	Issue No.	267
LM End	4.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.769238 °	36.769238 °
				-120.228588 °	-120.228588 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36849 DS_ID:19964 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm crossing alignment and appurtenances associated with this crossing. Multiple stand pipes visible on landward side. Need to contact owner to determine status of crossing and alignment. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 12.5 feet below the crown. Concrete riser unit with slide gate on the waterward slope. Screw gate on landward shoulder. Pump on landward side. Rehabilitation of crossing under Permit No. 13085 (1981). FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_36849_67237.jpg



View of waterwar 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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	4.06	Rating **	M	Issue No.	267 (cont)	
LM End	4.06	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.769238 °	36.769238 °	
				-120.228588 °	-120.228588 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36849 DS_ID:19964 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm crossing alignment and appurtenances associated with this crossing. Multiple stand pipes visible on landward side. Need to contact owner to determine status of crossing and alignment. FIELD_STRUCT_DESC: 30-inch square R.C.B.C. through the levee 12.5 feet below the crown. Concrete riser unit with slide gate on the waterward slope. Screw gate on landward shoulder. Pump on landward side. Rehabilitation of crossing under Permit No. 13085 (1981). FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_SP_2016_36849_67236.jpg



Slide gate inside concrete box located on waterward side.

LM Start	5.40	Rating **	M	Issue No.	266
LM End	5.40	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.782405 °	36.782405 °
				-120.222763 °	-120.222763 °
DWR ID	DWR_NA0010_24_s_2015_266				
Comment Code					
MA : Material					
Inspector Comment					
Rocks stockpile near waterward toe.					

Photo 1 of 2 : SP_2016_NA0010_140_266_20160512_00012.jpg



Looking at rock stockpile on waterward berm. Fall 2015

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	5.40	Rating **	M	Issue No.	266 (cont)	
LM End	5.40	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.782405 °	36.782405 °	
				-120.222763 °	-120.222763 °	
DWR ID	DWR_NA0010_24_s _ 2015_266					
Comment Code						
MA : Material						
Inspector Comment						
Rocks stockpile near waterward toe.						

Photo 2 of 2 : SP_2016_NA0010_140_266_20160512_00013.jpg



Looking north at rock pile on waterward berm.

LM Start	6.15	Rating **	U	Issue No.	2
LM End	6.15	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.788088 °	36.788088 °
				-120.212827 °	-120.212827 °
DWR ID	DWR_NA0010_24_s _ 2016_2				
Comment Code					
MA : Material					
Inspector Comment					
Sandpile on waterward berm over three feet high and 25 feet away from waterward toe should removed.					

Photo 1 of 1 : SP_2016_NA0010_140_2_20160524_00035.jpg



Looking northeast at sandpile over three on waterward berm.

LM Start	6.33	Rating **	U	Issue No.	3
LM End	6.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.788155 °	36.788155 °
				-120.209655 °	-120.209655 °
DWR ID	DWR_NA0010_24_s _ 2012_3				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile in channel.					

Photo 1 of 1 : SP_2016_NA0010_140_3_20160524_00036.jpg



Looking east at pruning pile on waterward berm.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	6.72	Rating **	U	Issue No.	15
LM End	6.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.786678 °	36.783993 °
				-120.204741 °	-120.203779 °
DWR ID	DWR_NA0010_24_f_2015_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope					

Photo 1 of 1 : SP_2016_NA0010_140_15_20160524_00037.jpg



Looking northwest at dense veg on landward slope and toe.

LM Start	6.73	Rating **	U	Issue No.	273
LM End	6.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.786632 °	36.786632 °
				-120.204733 °	-120.204733 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42933 DS_ID:19957 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 3.6 feet below the crown. Concrete "U" headwall on the waterward end. Flap gate on the waterward end. Concrete headwall on the landward end. FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_42933_60105.jpg



Overview of levee crown at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	6.73	Rating **	U	Issue No.	273 (cont)	
LM End	6.73	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.786632 °	36.786632 °	
				-120.204733 °	-120.204733 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42933						
DS_ID:19957						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: 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.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 3.6 feet						
below the crown. Concrete "U" headwall on the waterward end. Flap						
gate on the waterward end. Concrete headwall on the landward end.						
FS Date: 4/8/2014						

Photo 2 of 2 : UCIP_SP_2016_42933_60107.jpg



View of waterward side--debris (pipe sections) located on waterward

LM Start	7.34	Rating **	C	Issue No.	14
LM End	7.34	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.779377 °	36.779377 °
				-120.198956 °	-120.198956 °
DWR ID	DWR_NA0010_24_f_2015_14				
Comment Code					
FE : Fence					
Inspector Comment					
Repaired gate.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	05/18/2016 05/18/2016	Richard Willoughby

LM Start	8.33	Rating **	M	Issue No.	272
LM End	8.33	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.778084 °	36.778084 °
				-120.184454 °	-120.184454 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33272					
DS_ID:19960					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Barbed wire along levee shoulder--no access. Need to confirm crossing size and condition of crossing.					
FIELD_STRUCT_DESC: 12-inch concrete pipe through the levee, 3.0 feet below the crown. Concrete headwall on the waterward end. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.32).					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP_SP_2016_33272_60121.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_33272_60120.jpg



View of landward side.

LM Start	8.33	Rating **	M	Issue No.	272 (cont)
LM End	8.33	Issue Type +	En	Location *	CR

* 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**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 25 Salt Slough			Right	2.49
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/19/2016 - 5/19/2016			
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 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	7
LM End	2.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.271165 °
				-120.880678 °	-120.866629 °
DWR ID	DWR_NA0010_25_f_2015_7				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_141_7_20160524_00022.jpg



Looking at typical view of landward slope.

LM Start	0.00	Rating **	U	Issue No.	9
LM End	2.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.271117 °
				-120.880678 °	-120.866599 °
DWR ID	DWR_NA0010_25_f_2015_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0010_141_9_20160524_00023.jpg



Looking at typical view of waterward slope.

LM Start	0.01	Rating **	U	Issue No.	8
LM End	2.49	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296117 °	37.271117 °
				-120.880724 °	-120.866599 °
DWR ID	DWR_NA0010_25_s_2012_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control weeds on levee crown.					

Photo 1 of 1 : SP_2016_NA0010_141_8_20160524_00024.jpg



Looking at typical view of levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	14
LM End	0.02	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.296038 °	37.296038 °
				-120.880742 °	-120.880742 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39501 DS_ID:19965 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.02). FS Date: 5/1/2014					

LM Start	0.02	Rating **	M	Issue No.	14 (cont)
LM End	0.02	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_39501_67242.jpg



View of waterward side--dense vegetation on waterward side.

Photo 2 of 2 : UCIP_SP_2016_39501_67240.jpg



Pipe daylight visible on waterward toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.36	Rating **	M	Issue No.	10
LM End	0.36	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.291173 °	37.291173 °
				-120.880731 °	-120.880731 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36851					
DS_ID:19966					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.6 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.35).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_SP_2016_36851_67249.jpg



View of waterward side.

LM Start	0.36	Rating **	M	Issue No.	10 (cont)
LM End	0.36	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_36851_67248.jpg



Pipe outlet visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.59	Rating **	M	Issue No.	11
LM End	0.59	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.287744 °	37.287744 °
				-120.880645 °	-120.880645 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36852					
DS_ID:19967					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 14.7 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.59).					
FS Date: 5/1/2014					

Photo 1 of 2 : UCIP_SP_2016_36852_67250.jpg



Overview of waterward side--Salt Slough.

LM Start	0.59	Rating **	M	Issue No.	11 (cont)
LM End	0.59	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_36852_67251.jpg



View of waterward slope covered by dense vegetation.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	05/19/2016 05/19/2016	Richard Willoughby

LM Start	0.97	Rating **	M	Issue No.	12
LM End	0.97	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.282252 °	37.282252 °
				-120.880738 °	-120.880738 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36853 DS_ID:19968 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.4 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.97). FS Date: 5/1/2014					

LM Start	0.97	Rating **	M	Issue No.	12 (cont)
LM End	0.97	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_36853_67256.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_36853_67255.jpg



Pipe and evidence of flap gate visible on waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	13
LM End	2.05	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.277390 °	37.277390 °
				-120.867184 °	-120.867184 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36854 DS_ID:19969 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 4.0 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.05). FS Date: 5/1/2014					

LM Start	2.05	Rating **	M	Issue No.	13 (cont)
LM End	2.05	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_36854_67259.jpg



View of landward side.

Photo 2 of 2 : UCIP_SP_2016_36854_67260.jpg



View of waterward side.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	05/19/2016 05/19/2016	Richard Willoughby

LM Start	2.45	Rating **	M	Issue No.	15
LM End	2.45	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.271599 °	37.271599 °
				-120.866819 °	-120.866819 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39502
DS_ID:19970
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible on landward side--recommend clearing.
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. (USACE-1967). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.45).
FS Date: 5/1/2014 4:04:00 PM

LM Start	2.45	Rating **	M	Issue No.	15 (cont)
LM End	2.45	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP_SP_2016_39502_67270.jpg



View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_39502_67269.jpg



Pipe daylights at waterward toe.

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