

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

Reclamation District No. 2063 Crows Landing

	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

Reclamation District No. 2063 Crows Landing

Waterway		Bank	Unit Miles
Unit No. 01 San Joaquin River		Right	10.44

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/10/2016 - 5/11/2016			
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

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o	o	o
DWR ID	DWR_RD2063_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA maintains a copy of the O&M manual on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o	o	o
DWR ID	DWR_RD2063_01_f_2014_15				
Comment Code					
Inspector Comment					
The LMA maintains adequate flood fight supplies and equipment.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o	o	o
DWR ID	DWR_RD2063_01_s_2013_21				
Comment Code					
Inspector Comment					
The LMA is prepared for flood response.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	48
LM End	10.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.478717 °	37.390478 °	
			-121.044643 °	-120.941298 °	
DWR ID	DWR_RD2063_01_s_2016_48				
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.	49
LM End	10.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.478716 °	37.390478 °	
			-121.044643 °	-120.941298 °	
DWR ID	DWR_RD2063_01_s_2016_49				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.02	Rating **	U	Issue No.	18
LM End	1.30	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.478470 °	37.464660 °	
			-121.044598 °	-121.032946 °	
DWR ID	DWR_RD2063_01_s_2012_18				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch on landside has encroached into the berm and toe of the levee.					

Photo 1 of 3 : SP_2016_RD2063_112_18_20160404_00005.jpg



Looking north at ditch on landside berm and toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	0.02	Rating **	U	Issue No.	18 (cont)
LM End	1.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.478470 °	37.464660 °
				-121.044598 °	-121.032946 °
DWR ID	DWR_RD2063_01_s_2012_18				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch on landside has encroached into the berm and toe of the levee.					

LM Start	0.02	Rating **	U	Issue No.	18 (cont)
LM End	1.30	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2016_RD2063_112_18_20160404_00006.jpg



Looking northeast at canal-ditch on landside berm.

Photo 3 of 3 : SP_2016_RD2063_112_18_20160404_00007.jpg



Looking south at canal-ditch at landside berm and toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	1.28	Rating **	U	Issue No.	998
LM End	1.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.464839 °	37.464839 °
				-121.033270 °	-121.033270 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41588 DS_ID:22075 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - Pipe has visible holes throughout both LS and WS along with pipe deformation. - looks abandoned. Needs proper abandonment.- alfalfa valve on concrete pipe riser on waterside toe.- no slide gate found on waterside. No pump and pile structure found in river. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 10.0 feet below the crown. Pipe supported on two timber pile bents across drain ditch on the landward side. Two concrete standpipes on berm. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 1 of 2 : UCIP_SP_2016_41588_43166.jpg



WS view: abandoned concrete standpipe and abandoned power pole.

LM Start	1.28	Rating **	U	Issue No.	998 (cont)
LM End	1.28	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_41588_43161.jpg



WS view: steel pipe immersed into the river. No pump found.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	1.38	Rating **	A/W	Issue No.	36
LM End	1.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.463582 °	37.463582 °	
			-121.032263 °	-121.032263 °	
DWR ID	DWR_RD2063_01_s_2013_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.54	Rating **	A/W	Issue No.	4
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.461322 °	37.461322 °	
			-121.031785 °	-121.031785 °	
DWR ID	DWR_RD2063_01_s_2012_4				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No visible rodent or rodent holes. But area should be monitored.					

No Photos

LM Start	1.65	Rating **	A/W	Issue No.	11
LM End	1.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.459813 °	37.459813 °	
			-121.032372 °	-121.032372 °	
DWR ID	DWR_RD2063_01_s_2012_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has rodent control program and has grouted holes at this site. But should be monitored.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	2.09	Rating **	M	Issue No.	989
LM End	2.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.454125°	37.454125°
				-121.032240°	-121.032240°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24404 DS_ID:22078 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete distribution box with alfalfa valve not found at the waterward toe. Two steel standpipes and dismantled concrete standpipe on waterside levee toe. Concrete distribution box 50 ft off the levee center. FIELD_STRUCT_DESC: 30-inch CM pipe through the levee 16.5 feet below the crown. Slide gate in concrete distribution box 50 ft off the levee. Underground irrigation system. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 1 of 2 : UCIP_SP_2016_24404_43345.jpg



WS view: concrete box (top), and a dismantled concrete pipe on levee toe.

LM Start	2.09	Rating **	M	Issue No.	989 (cont)
LM End	2.09	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_24404_43344.jpg



WS view: a dismantled concrete pipe on levee toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	2.62	Rating **	M	Issue No.	991 (cont)
LM End	2.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.448233 °	37.448233 °
				-121.026521 °	-121.026521 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24435 DS_ID:22086 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Both pipe ends 70 ft off the levee center. Clearing and cleaning of inlet/outlet pipe needed. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 12.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 2 of 2 : UCIP_SP_2016_24435_43483.jpg



WS view: U shaped headwall outlet structure and pipe with flap gate.

LM Start	2.67	Rating **	A/W	Issue No.	982
LM End	2.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.447512 °	37.446574 °
				-121.026050 °	-121.025643 °
DWR ID	DWR_RD2063_01_s_2012_982				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					
No visible rodent or rodent holes. But area should be monitored.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	2.93	Rating **	M	Issue No.	992
LM End	2.93	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.443871 °	37.443871 °
				-121.025775 °	-121.025775 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24443 DS_ID:22088 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - clear and clean debris FIELD_STRUCT_DESC: Abandoned 24-inch CM pipe through the levee 9.5 feet below the crown. Flap gate on the waterward end. Pipe open on landward end. Concrete headwall on both ends. O&M Manual SJR 006, Sept. 1961 FS Date: 11/5/2013					

Photo 1 of 2 : UCIP_SP_2016_24443_43522.jpg



WS view: U typed concrete headwall on levee slope.

LM Start	2.93	Rating **	M	Issue No.	992 (cont)
LM End	2.93	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_24443_43521.jpg



WS view: pipe, flap gate, and concrete headwall with debris blocking the outlet.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	3.14	Rating **	A/W	Issue No.	37
LM End	3.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.442400 °	37.442400 °	
			-121.023095 °	-121.023095 °	
DWR ID	DWR_RD2063_01_s_2013_37				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No visible rodent or rodent holes. But area should be monitored.					

No Photos

LM Start	3.29	Rating **	M	Issue No.	993
LM End	3.29	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.441213 °	37.441213 °	
			-121.021130 °	-121.021130 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24469 DS_ID:22089 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - cleaning required in inlet pipe.- new flap gate FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 12.5 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 1 of 2 : UCIP_SP_2016_24469_43645.jpg



WS view: U typed concrete headwall on levee toe

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	3.29	Rating **	M	Issue No.	993 (cont)
LM End	3.29	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.441213 °	37.441213 °
				-121.021130 °	-121.021130 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24469 DS_ID:22089 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - cleaning required in inlet pipe.- new flap gate FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 12.5 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 2 of 2 : UCIP_SP_2016_24469_43644.jpg



WS view: new flap gate, and U typed concrete headwall.

LM Start	3.49	Rating **	M	Issue No.	53
LM End	3.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.438697 °	37.438697 °
				-121.019232 °	-121.019232 °
DWR ID	DWR_RD2063_01_f_2014_53				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Rodent hole notice on landward shoulder.					

Photo 1 of 2 : SP_2016_RD2063_112_53_20160512_00073.jpg



Looking east at typical rodent hole on landward shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	3.49	Rating **	M	Issue No.	53 (cont)
LM End	3.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.438697 °	37.438697 °
				-121.019232 °	-121.019232 °
DWR ID	DWR_RD2063_01_f_2014_53				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Rodent hole notice on landward shoulder.					

Photo 2 of 2 : SP_2016_RD2063_112_53_20160512_00074.jpg



Looking southeast at typical rodent hole on landward slope.

LM Start	3.64	Rating **	M	Issue No.	985
LM End	3.64	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.436845 °	37.436845 °
				-121.017826 °	-121.017826 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24485 DS_ID:22093 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - new flap gate on waterside.- cleaning and clearing of inlet box needed. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 12.0 feet below the crown. Flap gate and concrete saddle on the waterward end. Concrete drop inlet box on landward side. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 1 of 2 : UCIP_SP_2016_24485_43667.jpg



WS view: pipe, flap gate, and concrete saddle on levee slope

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	3.64	Rating **	M	Issue No.	985 (cont)
LM End	3.64	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.436845 °	37.436845 °
				-121.017826 °	-121.017826 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24485 DS_ID:22093 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - new flap gate on waterside.- cleaning and clearing of inlet box needed. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 12.0 feet below the crown. Flap gate and concrete saddle on the waterward end. Concrete drop inlet box on landward side. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 2 of 2 : UCIP_SP_2016_24485_43666.jpg



LS view: concrete drop inlet box on levee toe.

LM Start	3.68	Rating **	M	Issue No.	29
LM End	3.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.436421 °	37.435767 °
				-121.017321 °	-121.016119 °
DWR ID	DWR_RD2063_01_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 on landward shoulder and slope.					

Photo 1 of 2 : SP_2016_RD2063_112_29_20160512_00075.jpg



Looking east at typical rodent hole on landward shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	3.68	Rating **	M	Issue No.	29 (cont)
LM End	3.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.436421 °	37.435767 °	
			-121.017321 °	-121.016119 °	
DWR ID	DWR_RD2063_01_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 on landward shoulder and slope.					

Photo 2 of 2 : SP_2016_RD2063_112_29_20160512_00076.jpg



Looking south at typical rodent hole on landward shoulder.

LM Start	3.89	Rating **	U	Issue No.	2
LM End	3.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.434506 °	37.433441 °	
			-121.014394 °	-121.013633 °	
DWR ID	DWR_RD2063_01_s_2016_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove dense veg on landward berm.					

Photo 1 of 2 : SP_2016_RD2063_112_2_20160512_00077.jpg



Looking at dense veg on landward berm.

LM Start	3.89	Rating **	U	Issue No.	2 (cont)
LM End	3.97	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD2063_112_2_20160512_00078.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	4.02	Rating **	M	Issue No.	995
LM End	4.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.432813 °	37.432813 °
				-121.013419 °	-121.013419 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24583 DS_ID:22096 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - new flap gate on waterside.- cleaning of outlet and inlet pipes required. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 12.0 feet below the crown. Flap gate on the waterwad end. Concrete headwall on both ends. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961 FS Date: 11/5/2013					

Photo 1 of 2 : UCIP_SP_2016_24583_43842.jpg



WS view: pipe, flap gate, and concrete headwall on drainage ditch.

LM Start	4.02	Rating **	M	Issue No.	995 (cont)
LM End	4.02	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_24583_43841.jpg



LS view: CM pipe and concrete headwall on levee toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	4.10	Rating **	M	Issue No.	1001
LM End	4.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.431846 °	37.431846 °
				-121.012716 °	-121.012716 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41746 DS_ID:22099 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine if annular space has been grouted or if repair/sleeving was done in accordance with a permit or Title 23. Slide gate not found in CM pipe riser on the waterward slope. Dense vegetation on waterside. Pipe only visible in CMP riser on waterside slope. FIELD_STRUCT_DESC: A smaller pipe sleeved into 24-inch CM pipe. 24-inch pipe through the levee 10.0 feet below the crown. Connects to concrete pipe irrigation system. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/5/2013					

Photo 1 of 2 : UCIP_SP_2016_41746_43850.jpg



WS view: CMP riser on levee slope. Steel riser on top of CMP.

LM Start	4.10	Rating **	M	Issue No.	1001 (cont)
LM End	4.10	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_41746_43849.jpg



WS view: inside view of CMP riser on levee slope. Steel pipe and 24" CMP visible inside the riser.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	4.17	Rating **	M	Issue No.	983
LM End	4.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.431029 °	37.431029 °
				-121.011865 °	-121.011865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25025 DS_ID:24732 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - new pipe to pump.- overhead power line.- soil cover over the pipe seems not enough. FIELD_STRUCT_DESC: A 24-inch steel pipe through the levee at crown level. A thin layer of dirt acts as cover to the pipe. Pump house on steel structure in landside drainage ditch. Pump house and pipe on landside look new. Old wooden walkway to the pumphouse. Three new air vents on waterside pipe. Pipe opens on waterside. Exposed old pipe on waterside. FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_25025_45110.jpg



WS view: air vents (top- red) on exposed steel pipe.

LM Start	4.17	Rating **	M	Issue No.	983 (cont)
LM End	4.17	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_25025_45109.jpg



WS view: discharge pipe end on levee toe. No flap gate.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	4.58	Rating **	M	Issue No.	984
LM End	4.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.429501 °	37.429501 °
				-121.005667 °	-121.005667 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25028 DS_ID:22103 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaky pipe joint on landside where pipe daylights. Power pole on waterside. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee 4.0 feet below the crown. Gate valve on waterside slope. Siphon breaker on landside slope. Pipe daylights halfway down landward slope and empties into a concrete standpipe at landward toe. Pump at top of the bank on waterside. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_25028_45125.jpg



WS view: overview of waterside- gate valve and power pole on levee slope.

LM Start	4.58	Rating **	M	Issue No.	984 (cont)
LM End	4.58	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_25028_45124.jpg



WS view: pump, pipe and other appurtenances on levee toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	4.58	Rating **	M	Issue No.	3
LM End	4.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.429513 °	37.429513 °	
			-121.005653 °	-121.005653 °	
DWR ID	DWR_RD2063_01_s_2016_3				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.60	Rating **	M	Issue No.	31
LM End	4.60	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.429638 °	37.429638 °	
			-121.005348 °	-121.005348 °	
DWR ID	DWR_RD2063_01_s_2012_31				
Comment Code					
CR : Crops					
Inspector Comment					
Landowner planted grape vines and fruit trees and water tank on waterside berm without a permit from the CVFPB.					

Photo 1 of 2 : SP_2016_RD2063_112_31_20160404_00009.jpg



Looking west at water tank on waterward berm.

LM Start	4.60	Rating **	M	Issue No.	31 (cont)
LM End	4.60	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2016_RD2063_112_31_20160404_00010.jpg



Looking south at grapevines and fruit trees on waterside berm.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	4.64	Rating **	A/W	Issue No.	20
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.429892 °	37.429892 °
				-121.004768 °	-121.004768 °
DWR ID	DWR_RD2063_01_s_2012_20				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree has been corrected and comply to standard.					

No Photos

LM Start	5.05	Rating **	M	Issue No.	1002
LM End	5.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.427152 °	37.427152 °
				-120.999353 °	-120.999353 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41669 DS_ID:22105 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe should be done so properly.- rubber pipe attached to steel pipe on waterside.- a concrete standpipe on landside too.- overhead power line.- abandoned pipe and pile structure. Abandoned timber walkway on waterside. FIELD_STRUCT_DESC: 1 of 2: Two 12-inch steel pipes encased in reinforced concrete through levee 9.0 feet below crown. Two slide gates in 72-inch CM pipe riser on waterward slope. Two pumps on floating structure in river. Concrete distribution box on landward toe of the levee. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_41669_45131.jpg



WS view: CMP riser, abandoned walkway, power pole on levee slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	5.05	Rating **	M	Issue No.	1003 (cont)
LM End	5.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.427143 °	37.427143 °
				-120.999374 °	-120.999374 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41670 DS_ID:22123 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Any abandoned pipes should be verified as having been abandoned properly. - abandoned walkway, pile structure and steel pipe.- concrete standpipe on landside toe.- overhead power line. FIELD_STRUCT_DESC: 2 of 2: Two 12-inch steel pipes encased in reinforced concrete through levee 9.0 feet below crown. Two slide gates in 72-inch CM pipe riser on waterward slope. Two pumps on floating structure in river. Concrete distribution box on landward toe of the levee. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 2 of 2 : UCIP_SP_2016_41670_43904.jpg



WS view: two gate valves inside CMP riser on levee slope.

LM Start	5.12	Rating **	M	Issue No.	38
LM End	5.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.426220 °	37.426220 °
				-120.999544 °	-120.999544 °
DWR ID	DWR_RD2063_01_s_2016_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	5.94	Rating **	M	Issue No.	50
LM End	5.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.416338 °	37.416338 °	
			-120.997517 °	-120.997517 °	
DWR ID	DWR_RD2063_01_s_2016_50				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage cause by vehicle traffic.					

Photo 1 of 2 : SP_2016_RD2063_112_50_20160512_00079.jpg



Looking northeast at slope damage on landward slope.

LM Start	5.94	Rating **	M	Issue No.	50 (cont)
LM End	5.94	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD2063_112_50_20160512_00080.jpg



LM Start	5.99	Rating **	A/W	Issue No.	5
LM End	5.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.415887 °	37.415887 °	
			-120.998083 °	-120.998083 °	
DWR ID	DWR_RD2063_01_s_2012_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No visible rodent or rodent holes. But area should be monitored.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	6.04	Rating **	A/W	Issue No.	120
LM End	6.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.415488 °	37.413473 °	
			-120.998988 °	-121.001680 °	
DWR ID	DWR_RD2063_01_s_2012_120				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation has been removed, but should be monitored.					

No Photos

LM Start	6.21	Rating **	M	Issue No.	40
LM End	6.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.414110 °	37.414110 °	
			-121.001408 °	-121.001408 °	
DWR ID	DWR_RD2063_01_s_2015_40				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	6.21	Rating **	M	Issue No.	51
LM End	6.21	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.414062 °	37.414062 °	
			-121.001458 °	-121.001458 °	
DWR ID	DWR_RD2063_01_s_2016_51				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage pile in channel and waterward berm.					

Photo 1 of 2 : SP_2016_RD2063_112_51_20160512_00081.jpg



Looking west at garbage pile in channel or 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	6.21	Rating **	M	Issue No.	51 (cont)
LM End	6.21	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.414062 °	37.414062 °
				-121.001458 °	-121.001458 °
DWR ID	DWR_RD2063_01_s_2016_51				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage pile in channel and waterward berm.					

Photo 2 of 2 : SP_2016_RD2063_112_51_20160512_00082.jpg



LM Start	6.53	Rating **	M	Issue No.	987
LM End	6.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.411347 °	37.411347 °
				-120.998063 °	-120.998063 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24628 DS_ID:22108 EP_NO: 4062 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe also found adjacent to this pipe. Needs proper abandonment. Soil erosion under pipe on waterside. No pipe visible on landside. Overhead powerline. FIELD_STRUCT_DESC: 12-inch pvc pipe through the levee 3.0 feet below the crown. Float pump in the river. Gate valve and air vent on waterside levee berm. Service pole with overhead line on the waterward shoulder. (App. No. 4062 - Greer) FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_24628_43938.jpg



WS view: steel pipe, gate valve, air vent on levee berm.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	6.53	Rating **	M	Issue No.	987 (cont)
LM End	6.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.411347 °	37.411347 °
				-120.998063 °	-120.998063 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24628 DS_ID:22108 EP_NO: 4062 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe also found adjacent to this pipe. Needs proper abandonment. Soil erosion under pipe on waterside. No pipe visible on landside. Overhead powerline. FIELD_STRUCT_DESC: 12-inch pvc pipe through the levee 3.0 feet below the crown. Float pump in the river. Gate valve and air vent on waterside levee berm. Service pole with overhead line on the waterward shoulder. (App. No. 4062 - Greer) FS Date: 11/6/2013					

Photo 2 of 2 : UCIP_SP_2016_24628_43937.jpg



WS view: pump on floating structure in the stream.

LM Start	6.58	Rating **	M	Issue No.	52
LM End	6.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.411610 °	37.411610 °
				-120.997111 °	-120.997111 °
DWR ID	DWR_RD2063_01_s_2016_52				
Comment Code					
MA : Material					
Inspector Comment					
Remove concrete rubble from landward slope.					

Photo 1 of 1 : SP_2016_RD2063_112_52_20160512_00083.jpg



Looking east at concrete rubble on landward slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	6.67	Rating **	A/W	Issue No.	41
LM End	6.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.411877 °	37.411725 °	
			-120.995685 °	-120.995092 °	
DWR ID	DWR_RD2063_01_s_2013_41				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No visible rodent or rodent holes. But area should be monitored.					

No Photos

LM Start	6.89	Rating **	A/W	Issue No.	39
LM End	6.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.411785 °	37.411785 °	
			-120.993548 °	-120.993548 °	
DWR ID	DWR_RD2063_01_s_2012_39				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	6.96	Rating **	M	Issue No.	988
LM End	6.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.409073 °	37.409073 °
				-120.992041 °	-120.992041 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24629 DS_ID:22109 EP_NO: 13541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - erosion around CMP riser on waterside- no U type headwall found on landside.- no pipe found on landside. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee 10.0 feet below the crown. Gate valve in CM pipe riser on the waterward slope. Pump on bank. Concrete "U" headwall on landward side. Installed by USCE 1961. (App. No. 13541 replace pump). O&M Manual SJR 006, Sept. 1961 FS Date: 11/6/2013					

LM Start	6.96	Rating **	M	Issue No.	988 (cont)
LM End	6.96	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_24629_43943.jpg



WS view: power pole, walkway to pump, CMP riser, and pipe on waterside slope.

Photo 2 of 2 : UCIP_SP_2016_24629_43942.jpg



WS view: walkway to pump and pump on pile structure in the stream.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	7.50	Rating **	M	Issue No.	986
LM End	7.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.404130 °	37.404130 °
				-120.986454 °	-120.986454 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25031 DS_ID:22111 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump mounted on top of concrete pipe sump not found on the waterside. Concrete standpipe not found on the landward side. Looks abandoned. FIELD_STRUCT_DESC: Abandoned 12-inch steel pipe encased in concrete 7.0 feet below the crown. Slide gate in CM pipe riser on the waterward slope. Steel pipe opens on both sides of the levee. Installed by USCE1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_25031_45141.jpg



WS view: CMP riser with slide gate. Missing slide gate handwheel.

LM Start	7.50	Rating **	M	Issue No.	986 (cont)
LM End	7.50	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_25031_45140.jpg



WS view: steel pipe with open-end on waterside slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	7.56	Rating **	A/W	Issue No.	7
LM End	7.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.403516 °	37.403516 °	
			-120.985718 °	-120.985718 °	
DWR ID	DWR_RD2063_01_s_2012_7				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2063_112_7_20160404_00004.jpg



Looking north at overhanging tree on landward slope.

LM Start	7.74	Rating **	A/W	Issue No.	9
LM End	7.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.401774 °	37.401774 °	
			-120.983132 °	-120.983132 °	
DWR ID	DWR_RD2063_01_s_2012_9				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	8.03	Rating **	M	Issue No.	33
LM End	8.03	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.401222 °	37.401222 °	
			-120.978317 °	-120.978317 °	
DWR ID	DWR_RD2063_01_s_2012_33				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	996
LM End	8.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.397883 °	37.397883 °
				-120.972342 °	-120.972342 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24651 DS_ID:22124 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - working during field inspection.- blocked siphon breaker. FIELD_STRUCT_DESC: 1 of 2: Two 16-inch steel pipes through the levee 3.5 feet below the crown. Siphon breakers in CM pipe risers on the waterward slope. Flap gate on the waterward end of each pipe. Two pumps on timber pile structure on the landward side. Timber walkway from levee to pump structure. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_24651_44005.jpg



WS view: two siphon breakers in CMP risers on levee slope.

LM Start	8.46	Rating **	M	Issue No.	996 (cont)
LM End	8.46	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_24651_44004.jpg



WS view: two flap gates on outfall pipe ends.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	997
LM End	8.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.397872 °	37.397872 °
				-120.972336 °	-120.972336 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24652 DS_ID:22112 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - working during field inspection.- blocked siphon breaker. FIELD_STRUCT_DESC: 2 of 2: Two 16-inch steel pipes through the levee 3.5 feet below the crown. Siphon breakers in CM pipe risers on the waterward slope. Flap gate on the waterward end of each pipe. Two pumps on timber pile structure on the landward side. Timber walkway from levee to pump structure. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_24652_44008.jpg



WS view: two siphon breakers in CMP risers on levee slope.

LM Start	8.46	Rating **	M	Issue No.	997 (cont)
LM End	8.46	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_24652_44007.jpg



WS view: two flap gates on outfall pipe ends.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	8.89	Rating **	A/W	Issue No.	25
LM End	8.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.392405 °	37.392405 °
				-120.968492 °	-120.968492 °
DWR ID	DWR_RD2063_01_s_2013_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No visible rodent or rodent holes. But area should be monitored.					

No Photos

LM Start	9.95	Rating **	M	Issue No.	994
LM End	9.95	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.390572 °	37.390572 °
				-120.950156 °	-120.950156 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24645 DS_ID:22117 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - waterside not accessible.- partially blocked inlet opening on landside. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 4.6 feet below the crown. Flap gate and concrete "U" headwall on the waterward end. Concrete headwall on landward end. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_24645_43988.jpg



WS view: concrete U type headwall on channel bank. Not accessible.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	9.95	Rating **	M	Issue No.	994 (cont)
LM End	9.95	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.390572 °	37.390572 °
				-120.950156 °	-120.950156 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24645 DS_ID:22117 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - waterside not accessible.- partially blocked inlet opening on landside. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee 4.6 feet below the crown. Flap gate and concrete "U" headwall on the waterward end. Concrete headwall on landward end. Installed by USCE 1961. O&M Manual SJR 006, Sept. 1961. FS Date: 11/6/2013					

Photo 2 of 2 : UCIP_SP_2016_24645_43987.jpg



LS view: concrete headwall and partially blocked inlet opening.

LM Start	10.20	Rating **	U	Issue No.	999
LM End	10.20	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.390517 °	37.390517 °
				-120.945659 °	-120.945659 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41366 DS_ID:22074 EP_NO: 11631 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe opens on both sides of the levee. FIELD_STRUCT_DESC: 12-inch drain PVC drain pipe through the levee, 3.5 feet below the crown. Pipe opens on both sides of the levee. (App. No. 11631 - A. V. Barcellos) FS Date: 11/6/2013					

Photo 1 of 2 : UCIP_SP_2016_41366_43990.jpg



WS view: PVC pipe with open end on levee slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	10.20	Rating **	U	Issue No.	999 (cont)
LM End	10.20	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.390517 °	37.390517 °
				-120.945659 °	-120.945659 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41366 DS_ID:22074 EP_NO: 11631 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe opens on both sides of the levee. FIELD_STRUCT_DESC: 12-inch drain PVC drain pipe through the levee, 3.5 feet below the crown. Pipe opens on both sides of the levee. (App. No. 11631 - A. V. Barcellos) FS Date: 11/6/2013					

Photo 2 of 2 : UCIP_SP_2016_41366_43989.jpg



LS view: PVC pipe with open end on levee toe.

LM Start	10.38	Rating **	M	Issue No.	42
LM End	10.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.390503 °	37.390483 °
				-120.942368 °	-120.941480 °
DWR ID	DWR_RD2063_01_s_2013_42				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair erosion on waterward shoulder. Erosion cause by farm equipment.					

Photo 1 of 2 : SP_2016_RD2063_112_42_20160404_00012.jpg



Looking at erosion on waterward levee shoulder. (Fall 2015)

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.44	05/10/2016 05/11/2016	Richard Willoughby

LM Start	10.38	Rating **	M	Issue No.	42 (cont)
LM End	10.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.390503 °	37.390483 °
				-120.942368 °	-120.941480 °
DWR ID	DWR_RD2063_01_s_2013_42				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair erosion on waterward shoulder. Erosion cause by farm equipment.					

Photo 2 of 2 : SP_2016_RD2063_112_42_20160404_00013.jpg



Looking north at erosion on waterward shoulder. (Spring 2015)

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