

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

Reclamation District No. 0108 River Farms

	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. 0108 River Farms

Waterway		Bank	Unit Miles	
Unit No. 01 Colusa Basin Drain		Left	20.64	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/6/2016 - 4/6/2016			
DWR Inspector	Jai Lor			
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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_RD0108_01_s_2013_5				
Comment Code					
Inspector Comment					
RD 108 has levee manuals.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_RD0108_01_s_2013_7				
Comment Code					
Inspector Comment					
RD 108 maintains a stockpile of flood response materials.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_RD0108_01_s_2013_9				
Comment Code					
Inspector Comment					
RD 108 has written response plans and regular flood response training.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	0.06	Rating **	M	Issue No.	281 (cont)
LM End	0.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822897 °	38.822897 °
				-121.797000 °	-121.797000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37608 DS_ID:17943 EP_NO: 9396 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon. FIELD_STRUCT_DESC: 1 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959 FS Date: 6/10/2014					

Photo 2 of 2 : UCIP_SP_2016_37608_68210.jpg



Dense vegetation on waterward side.

LM Start	0.06	Rating **	M	Issue No.	282
LM End	0.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822919 °	38.822919 °
				-121.797046 °	-121.797046 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37609 DS_ID:22386 EP_NO: 9396 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon. FIELD_STRUCT_DESC: 2 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959 FS Date: 6/10/2014					

Photo 1 of 2 : UCIP_SP_2016_37609_68211.jpg



Concrete structure located on waterward side.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	0.06	Rating **	M	Issue No.	284 (cont)
LM End	0.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822897 °	38.822897 °
				-121.797000 °	-121.797000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37611 DS_ID:22388 EP_NO: 9396 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon. FIELD_STRUCT_DESC: 4 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959 FS Date: 6/10/2014					

Photo 2 of 2 : UCIP_SP_2016_37611_68224.jpg



Waterward slope covered by dense vegetation.

LM Start	0.06	Rating **	M	Issue No.	16
LM End	20.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.822946 °	39.033945 °
				-121.797113 °	-121.993305 °
DWR ID	DWR_RD0108_01_s_2016_16				
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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	0.07	Rating **	M	Issue No.	280
LM End	0.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822954 °	38.822954 °
				-121.797135 °	-121.797135 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37607 DS_ID:22389 EP_NO: 9396 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon. FIELD_STRUCT_DESC: 5 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959 FS Date: 6/10/2014					

Photo 1 of 2 : UCIP_SP_2016_37607_68203.jpg



Concrete structure located on waterward side.

LM Start	0.07	Rating **	M	Issue No.	280 (cont)
LM End	0.07	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_37607_68206.jpg



Waterward slope covered by dense vegetation.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	2.91	Rating **	M	Issue No.	286
LM End	2.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.838696 °	38.838696 °
				-121.845843 °	-121.845843 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39707 DS_ID:24875 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: No signs of pipe visible--need to contact owner to obtain permit number authorizing work. If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. 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: Corrugated Metal (CM) pipe riser located on waterward side. Riser is filled with trash and deris. Unable to determine if crossing exists at this location. FS Date: 3/18/2014					

Photo 1 of 2 : UCIP_SP_2016_39707_71682.jpg



View of waterward side.

LM Start	2.91	Rating **	M	Issue No.	286 (cont)
LM End	2.91	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_39707_71681.jpg



CMP riser located on waterward toe--2/3 filled with soil and trash.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	3.65	Rating **	M	Issue No.	23
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.842620 °	38.842620 °	
			-121.858732 °	-121.858732 °	
DWR ID	DWR_RD0108_01_f_2015_23				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_23_20160304_00007.jpg



View of the debris on the waterward side of the levee. Fall 2015.

LM Start	4.17	Rating **	C	Issue No.	24
LM End	4.17	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.843708 °	38.843708 °	
			-121.868215 °	-121.868215 °	
DWR ID	DWR_RD0108_01_f_2015_24				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	5.20	Rating **	A/W	Issue No.	10
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.846163 °	38.846163 °	
			-121.886974 °	-121.886974 °	
DWR ID	DWR_RD0108_01_s_2014_10				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Tree at the toe is dying.					

Photo 1 of 2 : SP_2016_RD0108_203_10_20160304_00005.jpg



Tree limbs are along the toe of the levee. Tree is slowly dying and could be a hazard to the levee. Spring 2014

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	5.20	Rating **	A/W	Issue No.	10 (cont)
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.846163 °	38.846163 °
				-121.886974 °	-121.886974 °
DWR ID	DWR_RD0108_01_s_2014_10				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Tree at the toe is dying.					

Photo 2 of 2 : SP_2016_RD0108_203_10_20160304_00006.jpg



Tree limbs have been removed but suggest monitoring the dying tree. Fall 2015.

LM Start	5.92	Rating **	M	Issue No.	17
LM End	5.99	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.852230 °	38.853171 °
				-121.897211 °	-121.897930 °
DWR ID	DWR_RD0108_01_s_2016_17				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_17_20160411_00040.jpg



View of the crown of the levee looking upstream. Spring 2016.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	8.27	Rating **	A/W	Issue No.	26
LM End	8.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Cracking		38.882595 °	38.882595 °	
			-121.914669 °	-121.914669 °	
DWR ID	DWR_RD0108_01_f_2015_26				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_26_20160304_00009.jpg



View of the crack on the waterward side of the levee looking upstream. Suggest monitoring the crack. Fall 2015.

LM Start	8.98	Rating **	C	Issue No.	27
LM End	8.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.892888 °	38.892888 °	
			-121.914642 °	-121.914642 °	
DWR ID	DWR_RD0108_01_f_2015_27				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

LM Start	9.29	Rating **	A/W	Issue No.	279
LM End	9.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.897452 °	38.897452 °	
			-121.914680 °	-121.914680 °	
DWR ID	DWR_RD0108_01_f_2013_279				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD0108_203_279_20160304_00013.jpg



The cracking runs in a horseshoe pattern on the levee slope. Fall 2013

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	9.29	Rating **	A/W	Issue No.	279 (cont)
LM End	9.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.897452 °	38.897452 °
				-121.914680 °	-121.914680 °
DWR ID	DWR_RD0108_01_f_2013_279				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 2 of 2 : SP_2016_RD0108_203_279_20160304_00014.jpg



Slope stability with cracking 1-2 inches open and 12 inches deep. The district is monitoring the site. Fall 2013

LM Start	11.20	Rating **	M	Issue No.	18
LM End	11.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.925037 °	38.925037 °
				-121.914509 °	-121.914509 °
DWR ID	DWR_RD0108_01_s_2016_18				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_18_20160411_00041.jpg



View of the crown depression on the crown of the levee looking upstream. Spring 2016.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	11.24	Rating **	M	Issue No.	287
LM End	11.24	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.925662 °	38.925662 °
				-121.914303 °	-121.914303 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39717 DS_ID:24876 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine additional details of crossing. FIELD_STRUCT_DESC: Natural gas line with markers on both side slightly angled through levee. Gas station located across canal on landward side. FS Date: 3/18/2014					

Photo 1 of 2 : UCIP_SP_2016_39717_71705.jpg



View of marker visible on shoulder.

LM Start	11.24	Rating **	M	Issue No.	287 (cont)
LM End	11.24	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_39717_71704.jpg



Owner contact information listed on marker.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	11.36	Rating **	M	Issue No.	20
LM End	12.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.927325 °	38.938291 °	
			-121.913477 °	-121.907516 °	
DWR ID	DWR_RD0108_01_s_2016_20				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_20_20160411_00042.jpg



View of the crown of the levee looking upstream. Spring 2016.

LM Start	11.64	Rating **	M	Issue No.	28
LM End	11.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.930980 °	38.930980 °	
			-121.911489 °	-121.911489 °	
DWR ID	DWR_RD0108_01_f_2015_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_28_20160304_00011.jpg



View of the animal hole on the waterward side of the levee looking upstream. Fall 2015.

LM Start	14.75	Rating **	M	Issue No.	21
LM End	14.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.969811 °	38.969811 °	
			-121.926961 °	-121.926961 °	
DWR ID	DWR_RD0108_01_s_2016_21				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	14.94	Rating **	M	Issue No.	285
LM End	14.94	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.971607°	38.971607°
				-121.929499°	-121.929499°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37623 DS_ID:17942 EP_NO: 3800 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner--marker missing on waterward side. FIELD_STRUCT_DESC: 20-inch concrete encased gas line through levee, 3.0 feet below the crown. Crossing appears to be angled through levee (App. 3800-PG&E) Small rock revetment on the waterward slope. (unable to locate) Gas well approximately 1,000 feet from landward toe. FS Date: 6/10/2014					

Photo 1 of 2 : UCIP_SP_2016_37623_68246.jpg



Marker visible on landward side.

LM Start	14.94	Rating **	M	Issue No.	285 (cont)
LM End	14.94	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_SP_2016_37623_68245.jpg



Contact information for gas line going through levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	15.46	Rating **	M	Issue No.	22
LM End	15.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.976684 °	38.979377 °	
			-121.936696 °	-121.940526 °	
DWR ID	DWR_RD0108_01_s_2016_22				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_22_20160411_00043.jpg



View of the crown of the levee looking upstream. Spring 2016.

LM Start	18.24	Rating **	M	Issue No.	29
LM End	18.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.005766 °	39.005766 °	
			-121.972346 °	-121.972346 °	
DWR ID	DWR_RD0108_01_f_2015_29				
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_RD0108_203_29_20160304_00012.jpg



View of the animal hole on the waterward side of the levee looking upstream. 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	18.92	Rating **	M	Issue No.	6
LM End	19.28	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.013160 °	39.017000 °	
			-121.980808 °	-121.985364 °	
DWR ID	DWR_RD0108_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is at the toe of the levee.					

Photo 1 of 1 : SP_2016_RD0108_203_6_20160411_00044.jpg



View of the ditch at the toe of the levee on the landward side looking upstream. Spring 2016.

LM Start	19.14	Rating **	M	Issue No.	32
LM End	19.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.015522 °	39.015522 °	
			-121.983618 °	-121.983618 °	
DWR ID	DWR_RD0108_01_f_2015_32				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	19.15	Rating **	M	Issue No.	19
LM End	19.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.015634 °	39.015634 °	
			-121.983757 °	-121.983757 °	
DWR ID	DWR_RD0108_01_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 WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	19.27	Rating **	M	Issue No.	1
LM End	19.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.016727°	39.017516°
				-121.985411°	-121.986374°
DWR ID	DWR_RD0108_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Toe scour at the bottom of a steep bank, large sections of the toe are sliding down. Erosion may be due to the upstream bend. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD_19-2_L]					

No Photos

LM Start	19.41	Rating **	M	Issue No.	25
LM End	19.78	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.018352°	39.023306°
				-121.986995°	-121.988793°
DWR ID	DWR_RD0108_01_s_2016_25				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_25_20160411_00045.jpg



View of the crown of the levee looking upstream. Spring 2016.

LM Start	20.38	Rating **	M	Issue No.	30
LM End	20.43	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.031526°	39.031477°
				-121.990258°	-121.991089°
DWR ID	DWR_RD0108_01_s_2016_30				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_203_30_20160411_00046.jpg



View of the crown of the levee looking upstream. Spring 2016.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : 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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	04/06/2016 04/06/2016	Jai Lor

LM Start	20.47	Rating **	M	Issue No.	31
LM End	20.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		39.031752 °	39.032763 °	
			-121.991738 °	-121.992438 °	
DWR ID	DWR_RD0108_01_s_2016_31				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 0108 River Farms

Waterway		Bank	Unit Miles
Unit No. 02 Castle Properties		Right	0.28

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/6/2016 - 4/6/2016			
DWR Inspector	Jai Lor			
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. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	04/06/2016 04/06/2016	Jai Lor

LM Start	0.02	Rating **	U	Issue No.	6
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.796355 °	38.796355 °	
			-121.727721 °	-121.727721 °	
DWR ID	DWR_RD0108_02_f_2015_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Mound does not look fresh but seems to have come from the rodent hole.					

LM Start	0.02	Rating **	U	Issue No.	6 (cont)
LM End	0.02	Issue Type +	Ma	Location *	WS

LM Start	0.02	Rating **	U	Issue No.	6 (cont)
LM End	0.02	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2016_RD0108_590_6_20160411_00007.jpg



Mound next to rodent hole is more than 2 cubic feet of material.

Photo 2 of 3 : SP_2016_RD0108_590_6_20160411_00006.jpg



Perspective view of the rodent hole on the waterward side of the levee looking upstream. Spring 2016.

Photo 3 of 3 : SP_2016_RD0108_590_6_20160411_00008.jpg



Another hole is on top of the crown. Spring 2016.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	04/06/2016 04/06/2016	Jai Lor

LM Start	0.02	Rating **	M	Issue No.	2
LM End	0.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.796394 °	38.798524 °	
			-121.727626 °	-121.725284 °	
DWR ID	DWR_RD0108_02_s_2016_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.09	Rating **	U	Issue No.	1
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.797112 °	38.799110 °	
			-121.726729 °	-121.724511 °	
DWR ID	DWR_RD0108_02_s_2016_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_590_1_20160411_00005.jpg



View of the vegetation on the landward side of the levee looking upstream. Spring 2016.

LM Start	0.12	Rating **	C	Issue No.	7
LM End	0.12	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.797443 °	38.797443 °	
			-121.726395 °	-121.726395 °	
DWR ID	DWR_RD0108_02_f_2015_7				
Comment Code					
DE : Debris					
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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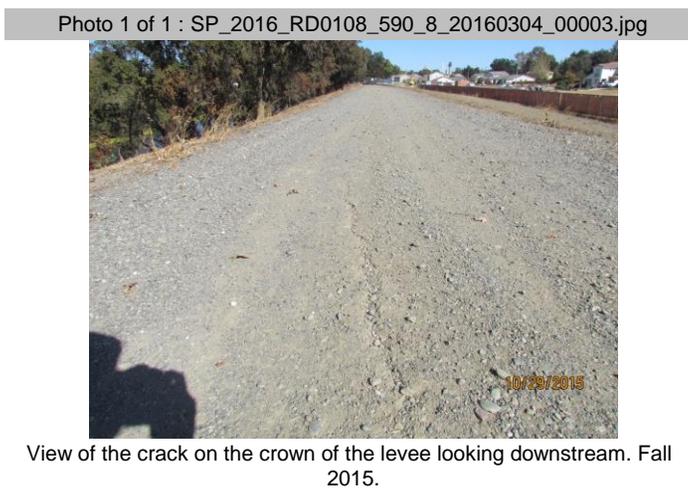
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	04/06/2016 04/06/2016	Jai Lor

LM Start	0.14	Rating **	A/W	Issue No.	8
LM End	0.15	Issue Type +	Ob	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.797632 °	38.797760 °
				-121.726162 °	-121.726070 °
DWR ID	DWR_RD0108_02_f_2015_8				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Cracks seems to have closed up after the rain.					



LM Start	0.20	Rating **	M	Issue No.	9
LM End	0.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.798280 °	38.798280 °
				-121.725565 °	-121.725565 °
DWR ID	DWR_RD0108_02_f_2015_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	0.23	Rating **	C	Issue No.	10
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.798600 °	38.798600 °
				-121.725055 °	-121.725055 °
DWR ID	DWR_RD0108_02_f_2015_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent burrow has been backfilled.					

No Photos

* Location LS : Land Side 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/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

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	04/06/2016 04/06/2016	Jai Lor

LM Start	0.26	Rating **	M	Issue No.	3
LM End	0.26	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.798971 °	38.798971 °	
			-121.724696 °	-121.724696 °	
DWR ID	DWR_RD0108_02_s_2016_3				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0108_590_3_20160411_00009.jpg



View of the pruning pile on the berm of levee on the waterward side. Spring 2016.

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