

Flood Control Project Maintenance Levee Inspections

Fall 2023 Levee Maintenance Deficiency Summary Report

Sacramento River Basin

RD0108	Overall LMA Rating		Total LMA Miles		* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.				
Reclamation District No. 0108 River Farms	M *		20.92						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Encroachments					0.36				
Slope Stability	0.15	0.03	0.27	1.29%					
Cracking	0.04		0.04	0.19%					
Supplemental									
2018 USACE Erosion Survey	0.08		0.08	0.38%					
DWR UCIP LMA Responsibility									
LMA Totals:	0.27	0.03	0.39	1.86% *	0.36	0.00	0.00	0.00	

Unit No. 01 Colusa Basin Drain LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0108	M *	20.64						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Encroachments					0.36			
Slope Stability	0.15	0.03	0.27	1.31%				
Cracking	0.04		0.04	0.19%				
Supplemental								
2018 USACE Erosion Survey	0.08		0.08	0.39%				
DWR UCIP LMA Responsibility								
Unit Totals:	0.27	0.03	0.39	1.89% *	0.36	0.00	0.00	0.00

Unit No. 02 Castle Properties RB	Overall Unit Rating	Total Unit Miles						
RD0108	A	0.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
Unit Totals:	0.00	0.00	0.00	0.00%				

Flood Control Project Maintenance Levee Inspections LMA District Cover Sheet

Reclamation District No. 0108 River Farms

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

**** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.**

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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

[illegible]

**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet**

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)			M *	
Date of Inspection	4/4/2023 - 4/4/2023		10/6/2023 - 10/6/2023	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By			Jordon Navarrot RD 108	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

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				
DWR ID	DWR_RD0108_01_s _ 2023_5				
Comment Code					
OM : O&M Manuals					
Inspector Comment					
RD 108 has O&M 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					
ES : Emergency Supplies & Equipment					
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					
FP : Flood Preparedness & Training					
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 - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.06	Rating **	M	Issue No.	24
LM End	0.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.822897°	38.822897°
				-121.797000°	-121.797000°
DWR ID	17943				
Comment Code					
Inspector Comment					
DS_ID:17943 FS_ID:55919 EP_NO: 9736 Repair Type: Non-Urgent EVAL Issue: Crossing Status: Found UCIP Comments: 10/2/2019 Record remains Non-Urgent. In 2019 RD 108 took an attempt to bring structure to operable condition. Although this attempt was unsuccessful District will review other options. In the meantime crossing considered abandoned. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) 06/10/2014 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. (O.Magana - DWR UCIP) FIELD_STRUCT_DESC: 1 of 5: 72-inch reinforced concrete gravity drainage pipe or culvert through the levee, 31.6 feet below the crown. Slide gate on each end. (Retention of five 72-inch pipes through the levee [HLM 0.08] authorized under Automatic Board Order (ABO) issued as Permit No. 9736, 1974 - Reclamation District No. 108 [RD0108]). [Additional Reference(s): DWR Levee Log, 1991, (HLM 0.08). USACE Sacramento O&M Manual 132, October 1959, (HLM 0.08), referenced as five 6-foot by 8-foot concrete drainage culverts]. FS Date: 10/2/2019					

LM Start	0.06	Rating **	M	Issue No.	24 (cont)
LM End	0.06	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2023_55919_83215.jpg



View of LS looking from levee crown

Photo 2 of 3 : UCIP_FA_2023_55919_83216.jpg



View of WS looking from levee crown

* Location LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	** Rating A: Acceptable M: Minimally Acceptable U: Unacceptable	N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain	+ Issue Type Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement
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Reclamation District No. 0108 River Farms

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.06	Rating **	M	Issue No.	25 (cont)
LM End	0.06	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.822919 °	38.822919 °	
			-121.797046 °	-121.797046 °	
DWR ID	22386				

Photo 2 of 3 : UCIP_FA_2023_55920_83226.jpg



Slide gates on waterward side

LM Start	0.06	Rating **	M	Issue No.	25 (cont)
LM End	0.06	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2023_55920_83227.jpg



Concrete structure located on waterward side

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.06	Rating **	M	Issue No.	26	
LM End	0.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.822933 °	38.822933 °	
				-121.797081 °	-121.797081 °	
DWR ID	22387					
Comment Code						
Inspector Comment						
DS_ID:22387 FS_ID:55921 EP_NO: 9396 Repair Type: Non-Urgent EVAL Issue: Crossing Status: Found UCIP Comments: 10/2/2019 Record remains Non-Urgent. In 2019 RD 108 took an attempt to bring structure to operable condition. Although This attempt was unsuccessful District will review other options. In the meantime crossing considered abandoned. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)06/10/2014 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. (O.Magana - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 3 of 5: 72-inch reinforced concrete gravity drainage pipe or culvert through the levee, 31.6 feet below the crown. Slide gate on each end. (Retention of five 72-inch pipes through the levee [HLM 0.08] authorized under Automatic Board Order (ABO) issued as Permit No. 9736, 1974 - Reclamation District No. 108 [RD0108]). [Additional Reference(s): DWR Levee Log, 1991. USACE Sacramento O&M Manual 132, October 1959, (HLM 0.08), referenced as five 6-foot by 8-foot concrete drainage culverts]. FS Date: 10/2/2019 7:54:00 AM						

Photo 1 of 3 : UCIP_FA_2023_55921_83223.jpg



Slide gates on waterward side

LM Start	0.06	Rating **	M	Issue No.	26 (cont)
LM End	0.06	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2023_55921_83224.jpg



Concrete structure located on waterward side

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.06	Rating **	M	Issue No.	26 (cont)
LM End	0.06	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.822933°	38.822933°	
			-121.797081°	-121.797081°	
DWR ID	22387				

Photo 3 of 3 : UCIP_FA_2023_55921_83225.jpg



Concrete structure located onlandward side

LM Start	0.06	Rating **	M	Issue No.	27
LM End	0.06	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.822897°	38.822897°	
			-121.797000°	-121.797000°	
DWR ID	22388				

Comment Code

Inspector Comment

DS_ID:22388
FS_ID:55922
EP_NO: 9396
Repair Type: Non-Urgent
EVAL Issue:
Crossing Status: Found
UCIP Comments: 10/2/2019 Record remains Non-Urgent. In 2019 RD 108 took an attempt to bring structure to operable condition. Although this attempt was unsuccessful District will review other options. In the meantime crossing considered abandoned. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)06/10/2014 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. (O.Magana - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 4 of 5: 72-inch reinforced concrete gravity drainage pipe or culvert through the levee, 31.6 feet below the crown. Slide gate on each end. (Retention of five 72-inch pipes through the levee [HLM 0.08] authorized under Automatic Board Order (ABO) issued as Permit No. 9736, 1974 - Reclamation District No. 108 [RD0108]). [Additional Reference(s): DWR Levee Log, 1991, (HLM 0.08). USACE Sacramento O&M Manual 132, October 1959, (HLM 0.08), referenced as five 6-foot by 8-foot concrete drainage culverts].
FS Date: 10/2/2019 7:59:18 AM

Photo 1 of 3 : UCIP_FA_2023_55922_83228.jpg



View of concrete structure located on landward side

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.06	Rating **	M	Issue No.	27 (cont)
LM End	0.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.822897°	38.822897°
				-121.797000°	-121.797000°
DWR ID	22388				

Photo 2 of 3 : UCIP_FA_2023_55922_83229.jpg



Concrete structure located on waterward side

LM Start	0.06	Rating **	M	Issue No.	27 (cont)
LM End	0.06	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2023_55922_83230.jpg



Slide gates on waterward side

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.07	Rating **	M	Issue No.	28	
LM End	0.07	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.822954°	38.822954°	
				-121.797135°	-121.797135°	
DWR ID	22389					
Comment Code						
Inspector Comment						
DS_ID:22389 FS_ID:55923 EP_NO: 9396 Repair Type: Non-Urgent EVAL Issue: Crossing Status: Found UCIP Comments: 10/2/2019 Record remains Non-Urgent. In 2019 RD 108 took an attempt to bring structure to operable condition. Although this attempt was unsuccessful District will review other options. In the meantime crossing considered abandoned. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)06/10/2014 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. (O.Magana - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 5 of 5: 72-inch reinforced concrete gravity drainage pipe or culvert through the levee, 31.6 feet below the crown. Slide gate on each end. (Retention of five 72-inch pipes through the levee [HLM 0.08] authorized under Automatic Board Order (ABO) issued as Permit No. 9736, 1974 - Reclamation District No. 108 [RD0108]). [Additional Reference(s): DWR Levee Log, 1991. USACE Sacramento O&M Manual 132, October 1959, (HLM 0.08), referenced as five 6-foot by 8-foot concrete drainage culverts]. FS Date: 10/2/2019 8:01:09 AM						

LM Start	0.07	Rating **	M	Issue No.	28 (cont)
LM End	0.07	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2023_55923_83231.jpg



View of concrete structure located on landward side

Photo 2 of 3 : UCIP_FA_2023_55923_83232.jpg



Slide gates on waterward side

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.07	Rating **	M	Issue No.	28 (cont)
LM End	0.07	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.822954°	38.822954°	
			-121.797135°	-121.797135°	
DWR ID	22389				

Photo 3 of 3 : UCIP_FA_2023_55923_83233.jpg



Concrete structure located on waterward side

LM Start	1.21	Rating **	U	Issue No.	12
LM End	1.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.829411°	38.829582°
				-121.816712°	-121.817274°
DWR ID	DWR_RD0108_01_s_2023_12				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
150' of sloughing on the landside slope with approximately 3ft of vertical scarp at worst section. District installed a raincoat over the damage during the spring storms.					

Photo 1 of 1 : FA_2023_RD0108_203_12_20231010_00032.jpg



View of sloughing on the landside shoulder and slope. Fall 2023.

LM Start	1.49	Rating **	M	Issue No.	17
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.830951°	38.831043°
				-121.821574°	-121.821847°
DWR ID	DWR_RD0108_01_f_2022_17				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
There appears to be a 150' sloughing section that is a result of February 2019 storms. This site will be repaired by the USACE under PL84-99. There are minor new cracks forming adjacent to the sloughing.					

Photo 1 of 1 : FA_2023_RD0108_203_17_20231010_00033.jpg



View of sloughing on the landside slope. Fall 2023.

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	2.70	Rating **	M	Issue No.	15
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.837568°	38.837749°
				-121.842218°	-121.842776°
DWR ID	DWR_RD0108_01_s_2019_15				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
There appears to be a 150' sloughing section that is a result of February 2019 storms. This site will be repaired by the USACE under PL84-99.					

Photo 1 of 1 : FA_2023_RD0108_203_15_20231010_00034.jpg



View of sloughing on the landside slope. Fall 2023.

LM Start	4.16	Rating **	A/W	Issue No.	14
LM End	4.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.843711°	38.843766°
				-121.867968°	-121.868441°
DWR ID	DWR_RD0108_01_s_2023_14				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Appears to be 100ft of linear cracking along landside shoulder. Recommend monitoring and having it inspected.					

No Photos

LM Start	4.16	Rating **	M	Issue No.	19
LM End	4.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.843700°	38.843785°
				-121.868000°	-121.868725°
DWR ID	DWR_RD0108_01_f_2023_19				
Comment Code					
CR2 : Schedule repair of subsidence prior to the next inspection.					
Inspector Comment					
Approximately 200' of deep cracks through the crown and landside shoulder.					

Photo 1 of 1 : FA_2023_RD0108_203_19_20231010_00031.jpg



View of cracks in crown and landside shoulder. Fall 2023.

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	9.51	Rating **	C	Issue No.	18
LM End	9.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.900516°	38.900516°
				-121.914662°	-121.914662°
DWR ID	DWR_RD0108_01_s_2023_18				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					

No Photos

LM Start	12.82	Rating **	M	Issue No.	16
LM End	12.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.947400°	38.947675°
				-121.906600°	-121.906793°
DWR ID	DWR_RD0108_01_f _ 2023_16				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Approximately 100' of sloughing on the landside slope.					

Photo 1 of 1 : FA_2023_RD0108_203_16_20231010_00035.jpg



View of sloughing on the landside slope. Fall 2023.

LM Start	14.48	Rating **	M	Issue No.	21
LM End	14.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.967107°	38.967205°
				-121.923162°	-121.923299°
DWR ID	DWR_RD0108_01_s_2023_21				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
100' of sloughing on the landside shoulder.					

Photo 1 of 1 : FA_2023_RD0108_203_21_20231010_00036.jpg



View of sloughing on the landside shoulder. Fall 2023.

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	14.53	Rating **	M	Issue No.	22
LM End	14.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.967652°	38.967716°
				-121.923930°	-121.924020°
DWR ID	DWR_RD0108_01_s_2023_22				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Approximately 250' of sloughing on the landside slope.					

Photo 1 of 1 : FA_2023_RD0108_203_22_20230907_00009.jpg



View of cracking on the landside shoulder. Spring 2023.

LM Start	17.05	Rating **	M	Issue No.	20
LM End	17.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.993000°	38.993420°
				-121.957600°	-121.958032°
DWR ID	DWR_RD0108_01_f _ 2023_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
250' of sloughing on the landside slope.					

Photo 1 of 1 : FA_2023_RD0108_203_20_20231010_00037.jpg



View of sloughing on the landside slope. Fall 2023.

LM Start	17.26	Rating **	M	Issue No.	23
LM End	17.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.995300°	38.995467°
				-121.960100°	-121.960396°
DWR ID	DWR_RD0108_01_f_2023_23				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Approximately 150' of sloughing on the landside slope.					

Photo 1 of 1 : FA_2023_RD0108_203_23_20231010_00038.jpg



View of sloughing on the landside slope. Fall 2023.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	18.73	Rating **	M	Issue No.	29
LM End	18.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.011025°	39.011025°
				-121.978434°	-121.978434°
DWR ID	17940				

Comment Code

Inspector Comment

DS_ID:17940
FS_ID:55933
EP_NO: 9399
Repair Type: Non-Urgent
EVAL Issue:
Crossing Status: Indicator Found
UCIP Comments: 10/2/2019 Record updated to Non-Urgent.
Geophysical results did not confirm presence of pipe through levee.
Disrupted concrete pile structure observed in riverbank that may belong to this crossing. Grouted 24-inch pipe hole is visible inside of concrete distribution box at the landside toe. Unable to confirm proper abandonment. Updated lat/long. (O.Yakimov - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch steel gravity drainage pipe through the levee, 15 feet below the crown. Pipe is open in a concrete distribution box at the landside (LS) toe. Intake trash rack structure in channel.
(Retention of a 24-inch steel pipe through the levee, 15 feet below the crown, a concrete distribution box, and an intake trash rack authorized under Automatic Board Order (ABO) issued as Permit No. 9399, 1974 - Aileen B. Armstrong, Trustee, care of O. M. Durst Jr.). [Additional Reference(s): DWR Levee Log, 1991, (HLM 18.67). USACE Sacramento O&M Manual 132, October 1959, (HLM 18.55)].
FS Date: 10/2/2019 11:10:08 AM

LM Start	18.73	Rating **	M	Issue No.	29 (cont)
LM End	18.73	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2023_55933_83271.jpg



View of LS looking from levee crown

Photo 2 of 3 : UCIP_FA_2023_55933_83272.jpg



View of WS looking from levee crown

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	18.73	Rating **	M	Issue No.	29 (cont)
LM End	18.73	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.011025°	39.011025°	
			-121.978434°	-121.978434°	
DWR ID	17940				

Photo 3 of 3 : UCIP_FA_2023_55933_83270.jpg



Ruined intake trash rack structure in channel

LM Start	18.73	Rating **	M	Issue No.	30
LM End	18.73	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.011044°	39.011044°	
			-121.978446°	-121.978446°	
DWR ID	18659				

Comment Code

Inspector Comment

DS_ID:18659
 FS_ID:55932
 EP_NO: N/A
 Repair Type: Non-Urgent
 EVAL Issue:
 Crossing Status: Indicator Found
 UCIP Comments: 10/2/2019 Record updated to Non-Urgent. No permit has been identified authorizing pipe. Disrupted concrete pile structure observed in riverbank that may belong to this crossing. Grouted 18-inch pipe hole is visible inside of concrete distribution box at the landside toe. Unable to confirm proper abandonment. Coordinates updated. (O.Yakimov - DWR UCIP)
 FIELD_STRUCT_DESC: 18-inch corrugated metal gravity drainage pipe through the levee, invert elevation 27.4 feet. Pipe hole immured at the landward toe in concrete distribution box. Ruined intake trash rack structure in channel. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 18.55)].
 FS Date: 10/2/2019 11:08:25 AM

Photo 1 of 3 : UCIP_FA_2023_55932_83441.jpg



LS view looking from levee crown

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	18.73	Rating **	M	Issue No.	30 (cont)
LM End	18.73	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.011044 °	39.011044 °	
			-121.978446 °	-121.978446 °	
DWR ID	18659				

Photo 2 of 3 : UCIP_FA_2023_55932_83442.jpg



View inside of concrete box on LS

LM Start	18.73	Rating **	M	Issue No.	30 (cont)
LM End	18.73	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2023_55932_83440.jpg



Grouted holes of 2 pipes towards levee in concrete box on LS

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					
A ditch is located at the toe of the levee.					

Photo 1 of 1 : FA_2023_RD0108_203_6_20230907_00001.jpg



View of ditch at the landside toe. Spring 2022.

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

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/06/2023 10/06/2023	Zach Jojola

LM Start	19.27	Rating **	M	Issue No.	13
LM End	19.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			39.016727°	39.017516°
				-121.985411°	-121.986374°
DWR ID	DWR_RD0108_01_s_2022_13				
Comment Code					
Inspector Comment					
2018 Site ID: CBD 19.2 L					
Status: Eroding					
2018 Field Notes: Last observed in 2011. Access issues prevented inspection in 2017.					
Site History: 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.					

Photo 1 of 1 : FA_2023_RD0108_203_13_20230907_00004.jpg



View of erosion at the waterside toe. Spring 2022.

* Location LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	** Rating A: Acceptable M: Minimally Acceptable U: Unacceptable	N: Not Inspected/Rated C: Corrected A/W: Acceptable 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**

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)			A	
Date of Inspection	4/4/2023 - 4/4/2023		10/6/2023 - 10/6/2023	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By			Jordon Navarrot RD 108	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	10/06/2023 10/06/2023	Zach Jojola

LM Start	0.10	Rating **	A	Issue No.	1
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.796800°	38.796800°
				-121.726000°	-121.726000°
DWR ID	DWR_RD0108_02_f_2023_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation is managed at a high level.					

Photo 1 of 1 : FA_2023_RD0108_590_1_20231010_00001.jpg



View of the well maintained waterside slope. Fall 2023.

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