

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

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 _ 2013_5				
Comment Code					
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			°	°
				°	°
DWR ID	DWR_RD0108_01_s _ 2013_7				
Comment Code					
Inspector Comment					
RD 108 maintains a stockpile of flood response materials.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

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				°	
					°	
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

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 : FA_2016_RD0108_203_23_20160913_00008.jpg



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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

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 : FA_2016_RD0108_203_10_20160913_00002.jpg



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

LM Start	5.20	Rating **	A/W	Issue No.	10 (cont)
LM End	5.20	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0108_203_10_20160913_00003.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	5.92	Rating **	M	Issue No.	17
LM End	6.06	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.852230 °	38.853967 °
				-121.897211 °	-121.898571 °
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 : FA_2016_RD0108_203_17_20160913_00004.jpg



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

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 : FA_2016_RD0108_203_26_20160913_00010.jpg



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

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	8.98	Rating **	M	Issue No.	15
LM End	8.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.892912 °	38.892912 °
				-121.914636 °	-121.914636 °
DWR ID	DWR_RD0108_01_f_2016_15				
Comment Code					
GA : Garbage					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0108_203_15_20161004_00040.jpg



Trash on waterward side on the levee. Fall 2016 inspection.

LM Start	9.29	Rating **	C	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					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

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 : FA_2016_RD0108_203_18_20160913_00005.jpg



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

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 : FA_2016_RD0108_203_20_20160913_00006.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
--	--	---	---

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	11.64	Rating **	C	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					

No Photos

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

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 : FA 2016 RD0108 203 22 20160913 00007.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

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 2 : FA_2016_RD0108_203_29_20161004_00042.jpg



Updated view of a site with rodent activity. Fall 2016 inspection.

LM Start	18.24	Rating **	M	Issue No.	29 (cont)
LM End	18.24	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0108_203_29_20160913_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	19.14	Rating **	C	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 **	C	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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	19.41	Rating **	C	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					

No Photos

LM Start	20.38	Rating **	C	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					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	20.47	Rating **	C	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 N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	10/04/2016 10/04/2016	Oleg Yakimov

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

Photo 1 of 3 : FA_2016_RD0108_590_6_20160913_00002.jpg



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

Photo 2 of 3 : FA_2016_RD0108_590_6_20160913_00003.jpg



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

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

Photo 3 of 3 : FA_2016_RD0108_590_6_20160913_00004.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 N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.03	Rating **	M	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.796447 °	38.796447 °
				-121.727487 °	-121.727487 °
DWR ID	DWR_RD0108_02_f _ 2016_1				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Crown surface is damaged due to vehicular activity.					

Photo 1 of 1 : FA_2016_RD0108_590_1_20161004_00006.jpg



Crown surface damaged due to intensive vehicle acceleration. Fall 2016 inspection.

LM Start	0.20	Rating **	C	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

* 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