

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	09/24/2015 09/24/2015	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					
Action/Comments						
Inspector Comments: 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				°		°
					°		°
DWR ID	DWR_RD0108_01_s _ 2013_7						
Action/Comments							
Inspector Comments: 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				°	
					°	
DWR ID	DWR_RD0108_01_s _ 2013_9					
Action/Comments						
Inspector Comments: 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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Unit No. 01 Colusa Basin Drain	Left	20.64	09/24/2015 09/24/2015	Jai Lor

LM Start	0.00	Rating **	A	Issue No.	18
LM End	20.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.822571 °	39.033895 °
				-121.796073 °	-121.993253 °
DWR ID	DWR_RD0108_01_f _ 2015_18				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Vegetation on the slope has been cleared.					

Photo 1 of 1 : FA_2015_RD0108_203_18_20151001_00009.jpg



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

LM Start	0.00	Rating **	A	Issue No.	17
LM End	20.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.822571 °	39.033889 °
				-121.796074 °	-121.993254 °
DWR ID	DWR_RD0108_01_f _ 2015_17				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Vegetation on the slope have been cleared.					

Photo 1 of 1 : FA_2015_RD0108_203_17_20151001_00010.jpg



View of the vegetation on the landward side of the levee looking upstream. Fall 2015.

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				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2015_RD0108_203_23_20151001_00011.jpg



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

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	09/24/2015 09/24/2015	Jai Lor

LM Start	4.17	Rating **	M	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				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 1 : FA_2015_RD0108_203_24_20151001_00012.jpg



View of the depression on the crown of the levee looking upstream. Fall 2015.

LM Start	5.19	Rating **	A/W	Issue No.	10
LM End	5.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.846086 °	38.846086 °
				-121.886834 °	-121.886834 °
DWR ID	DWR_RD0108_01_s_2014_10				
Action/Comments					
Trees / Woody Vegetation					
Inspector Comments: Tree at the toe is dying.					

Photo 1 of 2 : FA_2015_RD0108_203_10_20150914_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

LM Start	5.19	Rating **	A/W	Issue No.	10 (cont)
LM End	5.19	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0108_203_10_20151001_00013.jpg



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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	09/24/2015 09/24/2015	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				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

Photo 1 of 1 : FA_2015_RD0108_203_26_20151001_00014.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 **	M	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				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2015_RD0108_203_27_20151001_00015.jpg



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

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				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : FA_2015_RD0108_203_279_20150914_00007.jpg



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

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
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CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	09/24/2015 09/24/2015	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					
Action/Comments						
Repair slope instability.						

Photo 2 of 2 : FA_2015_RD0108_203_279_20150914_00008.jpg



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

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				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD0108_203_28_20151001_00016.jpg



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

LM Start	14.49	Rating **	C	Issue No.	12
LM End	14.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.967243 °	38.967243 °
				-121.923407 °	-121.923407 °
DWR ID	DWR_RD0108_01_s_2014_12				
Action/Comments					
Schedule repair of subsidence prior to the next inspection.					

No Photos

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	09/24/2015 09/24/2015	Jai Lor

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				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD0108_203_29_20151001_00017.jpg



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

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				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

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				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

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
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Unit No. 01 Colusa Basin Drain	Left	20.64	09/24/2015 09/24/2015	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					
Action/Comments					
Inspector Comments: 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 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	10/29/2015 10/29/2015	Jai Lor

LM Start	0.01	Rating **	A	Issue No.	2
LM End	0.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.796267 °	38.799003 °
				-121.727812 °	-121.724500 °
DWR ID	DWR_RD0108_02_f_2015_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Vegetation on slope has been maintained.					

Photo 1 of 1 : FA_2015_RD0108_590_2_20151103_00005.jpg



View of the vegetation on the landward side of the levee looking downstream. Fall 2015.

LM Start	0.01	Rating **	A	Issue No.	1
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.796267 °	38.799003 °
				-121.727812 °	-121.724495 °
DWR ID	DWR_RD0108_02_f_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Slope has been maintained.					

Photo 1 of 1 : FA_2015_RD0108_590_1_20151103_00004.jpg



View of the vegetation on the waterward side of the levee looking downstream. Fall 2015.

LM Start	0.02	Rating **	M	Issue No.	6
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.796335 °	38.796335 °
				-121.727717 °	-121.727717 °
DWR ID	DWR_RD0108_02_f_2015_6				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD0108_590_6_20151103_00006.jpg



View of the rodent hole on the waterward side of the levee looking downstream. 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	10/29/2015 10/29/2015	Jai Lor

LM Start	0.17	Rating **	C	Issue No.	5
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.797922 °	38.797922 °
				-121.725865 °	-121.725865 °
DWR ID	DWR_RD0108_02_s _ 2015_5				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

No Photos

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				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.23	Rating **	M	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				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD0108_590_10_20151103_00009.jpg



View of the rodent hole on the landward side of the levee looking downstream. Fall 2015.

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