

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2015 Levee Maintenance Deficiency Summary Report  
Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

RD0787 Reclamation District No. 0787 Fair	Overall LMA Rating	Total LMA Miles						
	M	4.45						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.46		0.46	10.34%				
Encroachments					2.42			
Flood Preparedness & Training	0.04		0.04	0.90%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.29		0.29	6.52%				
DWR UCIP Field Study					0.01			
<i>LMA Totals:</i>	0.79	0.00	0.79	17.76%	2.43	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0787 Fair**

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

\*\* 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**

**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0787 Fair**

Waterway		Bank	Unit Miles	
Unit No. 01 Colusa Basin Drain		Left	4.45	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	04/23/2015 - 04/23/2015		09/18/2015 - 09/18/2015	
DWR Inspector	Jai Lor		Jai Lor	
Accompanied By	Roger Cornwell Rivergarden Farms RD 787		Roger Cornwell Rivergarden Farms RD 787	

**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 2015**

**Reclamation District No. 0787 Fair**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	09/18/2015 09/18/2015	Jai Lor

LM Start		Rating **	A	Issue No.	<b>7</b>
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_RD0787_01_s_2013_7				
Action/Comments					
Inspector Comments: RD 787 shares flood resources with RD 108 with a stockpile of flood response materials.					

No Photos

LM Start		Rating **	A	Issue No.	<b>8</b>
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_RD0787_01_s_2013_8				
Action/Comments					
Inspector Comments: RD 787 is current with O&M manuals.					

No Photos

LM Start		Rating **	M	Issue No.	<b>10</b>
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_RD0787_01_s_2012_10				
Action/Comments					
Inspector Comments: RD 787 works jointly with RD 108 on training and flood response.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2015**

**Reclamation District No. 0787 Fair**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	09/18/2015 09/18/2015	Jai Lor

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>4</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.799591 °	38.797309 °	
			-121.725509 °	-121.727764 °	
DWR ID	DWR_RD0787_01_f_2015_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2015\_RD0787\_212\_4\_20150921\_00009.jpg



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

LM Start	<b>0.03</b>	Rating **	M	Issue No.	<b>6</b>
LM End	<b>0.29</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.799382 °	38.796618 °	
			-121.725685 °	-121.729094 °	
DWR ID	DWR_RD0787_01_f_2015_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2015\_RD0787\_212\_6\_20150921\_00010.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0787 Fair**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	09/18/2015 09/18/2015	Jai Lor

LM Start	<b>0.04</b>	Rating **	M	Issue No.	<b>15</b>
LM End	<b>0.04</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.799159 °	38.799159 °
				-121.725874 °	-121.725874 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:37585 DS_ID:22892 EP_NO: 9392 FS_HLM: 0.05 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 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: 36-inch concrete pipe through the levee 17.0 feet below the crown. Slide gate in 36-inch standpipe on the waterward side (App. 9392 - River Garden Farms). 24-inch pipe from standpipe to pump house mounted on steel structure in channel. Pump and 24-inch steel pipe installed on the waterward side, 1962 (App. 3878 - river Garden Farms). FS Date: 06/10/2014					

Photo 1 of 3 : UCIP\_FA\_2015\_4862.jpg



View of landward side.

LM Start	<b>0.04</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.04</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP\_FA\_2015\_4863.jpg



View of landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0787 Fair**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	09/18/2015 09/18/2015	Jai Lor

LM Start	<b>0.04</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.04</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.799159 °	38.799159 °
				-121.725874 °	-121.725874 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:37585 DS_ID:22892 EP_NO: 9392 FS_HLM: 0.05 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP\_FA\_2015\_6478.jpg



View of waterward side.

LM Start	<b>0.39</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>0.50</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.795931 °	38.795268 °
				-121.730627 °	-121.732566 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. Additional erosion due to human use. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD_0-5_L]					

No Photos

LM Start	<b>0.67</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.795486 °	38.796225 °
				-121.735647 °	-121.738902 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD_0-9_L]					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> 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	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	09/18/2015 09/18/2015	Jai Lor

LM Start	<b>1.58</b>	Rating **	M	Issue No.	<b>13</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.801794 °	38.809506 °	
			-121.750204 °	-121.768979 °	
DWR ID	DWR_RD0787_01_s_2012_13				
Action/Comments					
Ditch					

LM Start	<b>1.58</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	LS

LM Start	<b>1.58</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	LS

Photo 1 of 3 : FA\_2015\_RD0787\_212\_13\_20150914\_00003.jpg



Agricultural ditch runs along landside the distance of the district.

Photo 2 of 3 : FA\_2015\_RD0787\_212\_13\_20150914\_00004.jpg



A view of the agricultural ditch in the fall of 2011.

Photo 3 of 3 : FA\_2015\_RD0787\_212\_13\_20150914\_00005.jpg



The agricultural ditch runs along the toe of the levee. Spring 2014

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	09/18/2015 09/18/2015	Jai Lor

LM Start	<b>3.13</b>	Rating **	M	Issue No.	<b>14</b>
LM End	<b>4.40</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.812963 °	38.822302 °	
			-121.774880 °	-121.795295 °	
DWR ID	DWR_RD0787_01_s_2012_14				
Action/Comments					
Ditch					

Photo 1 of 3 : FA\_2015\_RD0787\_212\_14\_20150914\_00006.jpg



Ditch along landside toe.

LM Start	<b>3.13</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>4.40</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA\_2015\_RD0787\_212\_14\_20150914\_00007.jpg



A current view of the agricultural ditch photo taken in fall of 2011.

LM Start	<b>3.13</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>4.40</b>	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA\_2015\_RD0787\_212\_14\_20150914\_00008.jpg



The agricultural ditch runs along the toe of the levee slope. Spring 2014

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