

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

**Reclamation District No. 0001 Union Island**

	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 2015 Levee Inspection Results**

**Reclamation District No. 0001 Union Island**

Waterway		Bank	Unit Miles
Unit No. 01 Old River		Right	1.14

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/14/2015 - 05/14/2015			
DWR Inspector	Maksim Khashchuk			
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 2015**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	05/14/2015 05/14/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	6
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_RD0001_01_s_2013_6				
Action/Comments					
Inspector Comments: The LMA has current flood fighting training and an emergency plan.					

No Photos

LM Start		Rating **	A	Issue No.	8
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_RD0001_01_s_2013_8				
Action/Comments					
Inspector Comments: The LMA has emergency supplies on-site.					

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	Operations & Maintenance Manuals			o	o
DWR ID	DWR_RD0001_01_s_2013_9				
Action/Comments					
Inspector Comments: The LMA has a copy of the O&M Manual available at the office.					

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 - Spring 2015**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	05/14/2015 05/14/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.822306 °	37.822306 °
				-121.375304 °	-121.375304 °
DWR ID	DWR_RD0001_01_s_2015_2				
Action/Comments					
Inspector Comments: 07/02/2014: No significant change observed. 08/20/2013: No significant change at this site. 08/07/2012: The erosion is at the confluence of Old River and one of its tributary. [2014 Site ID:RD0001U01RM31.4]					

Photo 1 of 1 : SP\_2015\_RD0001\_23\_2\_20150317\_00002.jpg



Close view of the erosion.

LM Start	<b>0.01</b>	Rating **	A/W	Issue No.	<b>1</b>
LM End	<b>0.01</b>	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.822408 °	37.822408 °
				-121.375714 °	-121.375714 °
DWR ID	DWR_RD0001_01_s_2012_1				
Action/Comments					
Pipe Inspector Comments: Steel irrigation intake pipe up levee slope and through freeboard.					

Photo 1 of 1 : SP\_2015\_RD0001\_23\_1\_20150317\_00001.jpg



View of irrigation intake pipe on waterside slope.

LM Start	<b>0.02</b>	Rating **	C	Issue No.	<b>18</b>
LM End	<b>0.02</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.822511 °	37.822511 °
				-121.375857 °	-121.375857 °
DWR ID	DWR_RD0001_01_s_2012_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several burrows present					

No Photos

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable 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 - Spring 2015**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	05/14/2015 05/14/2015	Maksim Khashchuk

LM Start	<b>0.17</b>	Rating **	N	Issue No.	<b>12</b>
LM End	<b>0.17</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.821376 °	37.821376 °	
			-121.378044 °	-121.378044 °	
DWR ID	DWR_RD0001_01_s_2014_12				
Action/Comments					
Tree stumps. Inspector Comments: Remove stump when it becomes rotted to prevent possible seepage path along the roots.					

Photo 1 of 1 : SP\_2015\_RD0001\_23\_12\_20150518\_00017.jpg



View of the tree stump on the waterside levee slope.

LM Start	<b>0.20</b>	Rating **	C	Issue No.	<b>5</b>
LM End	<b>0.20</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.820989 °	37.820989 °	
			-121.378174 °	-121.378174 °	
DWR ID	DWR_RD0001_01_s_2013_5				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

No Photos

LM Start	<b>0.24</b>	Rating **	A/W	Issue No.	<b>11</b>
LM End	<b>0.24</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.820362 °	37.820362 °	
			-121.378359 °	-121.378359 °	
DWR ID	DWR_RD0001_01_s_2014_11				
Action/Comments					
Material Inspector Comments: Stockpiled riprap on levee crown. Keep the stockpile so that a vehicle could maneuver around the pile to facilitate visibility and access of the levee.					

Photo 1 of 1 : SP\_2015\_RD0001\_23\_11\_20150317\_00008.jpg



View of the riprap stockpiled on the levee crown.

<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 - Spring 2015**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	05/14/2015 05/14/2015	Maksim Khashchuk

LM Start	<b>0.38</b>	Rating **	A/W	Issue No.	<b>7</b>
LM End	<b>0.38</b>	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.819651 °	37.819651 °	
			-121.380467 °	-121.380467 °	
DWR ID	DWR_RD0001_01_s_2012_7				
Action/Comments					
Pipe Inspector Comments: Irrigation intake through levee crown.					

Photo 1 of 1 : SP\_2015\_RD0001\_23\_7\_20150317\_00005.jpg



View of the pipe through levee freeboard.

LM Start	<b>0.50</b>	Rating **	C	Issue No.	<b>4</b>
LM End	<b>0.50</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.818014 °	37.818014 °	
			-121.379829 °	-121.379829 °	
DWR ID	DWR_RD0001_01_f_2014_4				
Action/Comments					
Repair slope instability.					

No Photos

LM Start	<b>0.53</b>	Rating **	C	Issue No.	<b>14</b>
LM End	<b>0.53</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.817651 °	37.817651 °	
			-121.379898 °	-121.379898 °	
DWR ID	DWR_RD0001_01_s_2014_14				
Action/Comments					
Material Inspector Comments: Riprap stockpiled on levee crown.					

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 - Spring 2015**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	05/14/2015 05/14/2015	Maksim Khashchuk

LM Start	<b>0.65</b>	Rating **	C	Issue No.	<b>15</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.817249 °	37.817249 °	
			-121.382026 °	-121.382026 °	
DWR ID	DWR_RD0001_01_s_2012_15				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	<b>0.66</b>	Rating **	A/W	Issue No.	<b>20</b>
LM End	<b>0.66</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.817134 °	37.817134 °	
			-121.382099 °	-121.382099 °	
DWR ID	DWR_RD0001_01_s_2012_20				
Action/Comments					
Pipe Inspector Comments: Drainage discharge into Old River. No photo found from previous inspection. 04/26/2011 photo added.					

Photo 1 of 1 : SP\_2015\_RD0001\_23\_20\_20150317\_00013.jpg



04/26/2011 Discharge pipe in waterside slope.

LM Start	<b>0.73</b>	Rating **	A	Issue No.	<b>3</b>
LM End	<b>0.82</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.816280 °	37.814973 °	
			-121.382706 °	-121.382441 °	
DWR ID	DWR_RD0001_01_s_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP\_2015\_RD0001\_23\_3\_20150518\_00016.jpg



View of the acceptable vegetation on the landside levee 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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	05/14/2015 05/14/2015	Maksim Khashchuk

LM Start	<b>0.85</b>	Rating **	A/W	Issue No.	<b>10</b>
LM End	<b>0.85</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.814566 °	37.814566 °	
			-121.382450 °	-121.382450 °	
DWR ID	DWR_RD0001_01_s_2012_10				
Action/Comments					
Pipe Inspector Comments: Irrigation intake through levee freeboard.					

Photo 1 of 2 : SP\_2015\_RD0001\_23\_10\_20150317\_00006.jpg



View of irrigation pipe on landside.

LM Start	<b>0.85</b>	Rating **	A/W	Issue No.	<b>10 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2015\_RD0001\_23\_10\_20150317\_00007.jpg



View of irrigation intake pipe on waterside.

LM Start	<b>0.85</b>	Rating **	M	Issue No.	<b>27</b>
LM End	<b>0.85</b>	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.814601 °	37.814601 °	
			-121.382509 °	-121.382509 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41600 DS_ID:22691 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit on WSpipe exposed on both					

No Photos

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable 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 - Spring 2015**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	05/14/2015 05/14/2015	Maksim Khashchuk

LM Start	<b>0.93</b>	Rating **	C	Issue No.	<b>25</b>
LM End	<b>1.13</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814013 °	37.811775 °
				-121.383700 °	-121.384764 °
DWR ID	DWR_RD0001_01_f_2013_25				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	<b>1.10</b>	Rating **	C	Issue No.	<b>26</b>
LM End	<b>1.10</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.811896 °	37.811896 °
				-121.384370 °	-121.384370 °
DWR ID	DWR_RD0001_01_s_2014_26				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	<b>1.13</b>	Rating **	C	Issue No.	<b>23</b>
LM End	<b>1.13</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.811775 °	37.811775 °
				-121.384764 °	-121.384764 °
DWR ID	DWR_RD0001_01_f_2013_23				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

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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