

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>NA0013</b>	Overall LMA Rating	Total LMA Miles						
<b>Merced Streams Group</b>	<b>U</b>	<b>6.40</b>						
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	0.61		0.61	9.53%				
Trim / Thin Trees	0.01	0.17	0.69	10.78%				
Encroachments	0.02		0.02	0.31%	0.01	0.01		
Animal Control	1.70	0.64	4.26	66.56%				
Erosion / Bank Caving	0.01		0.01	0.16%				
Crown Surface / Depressions / Rutting	0.52		0.52	8.13%				
<i>Channels</i>								
Encroachments	0.40		0.40	6.25%				
<i>Supplemental</i>								
DWR Erosion Survey	0.16		0.16	2.50%				
<b>LMA Totals:</b>	<b>3.43</b>	<b>0.81</b>	<b>6.67</b>	<b>104.22%</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

<b>Unit No. 01 Black Rascal Diversion RB</b>	Overall Unit Rating	Total Unit Miles						
<b>NA0013</b>	<b>U</b>	<b>1.64</b>						
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	0.60		0.60	36.59%				
Trim / Thin Trees		0.17	0.68	41.46%				
Encroachments					0.01			
<b>Unit Totals:</b>	<b>0.60</b>	<b>0.17</b>	<b>1.28</b>	<b>78.05%</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

<b>Unit No. 02 Black Rascal Diversion LB</b>	Overall Unit Rating	Total Unit Miles						
<b>NA0013</b>	<b>U</b>	<b>1.88</b>						
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>								
Trim / Thin Trees	0.01		0.01	0.53%				
Encroachments	0.01		0.01	0.53%		0.01		
Animal Control	0.37		0.37	19.68%				
Erosion / Bank Caving	0.01		0.01	0.53%				
Crown Surface / Depressions / Rutting	0.10		0.10	5.32%				
<b>Unit Totals:</b>	<b>0.50</b>	<b>0.00</b>	<b>0.50</b>	<b>26.60%</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

<b>Unit No. 03 Owens Creek Diversion RB</b>	Overall Unit Rating	Total Unit Miles						
<b>NA0013</b>	<b>U</b>	<b>1.44</b>						
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>								
Animal Control	0.10	0.13	0.62	43.06%				
Crown Surface / Depressions / Rutting	0.06		0.06	4.17%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02		0.02	1.39%				
<b>Unit Totals:</b>	<b>0.18</b>	<b>0.13</b>	<b>0.70</b>	<b>48.61%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Flood Control Project Maintenance  
Levee Inspections**

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**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin (cont.)***

Unit No. 04 Owens Creek Diversion LB	Overall Unit Rating	Total Unit Miles						
NA0013	<b>U</b>	<b>1.44</b>						
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	0.01		0.01	0.69%				
Encroachments	0.01		0.01	0.69%				
Animal Control	1.23	0.51	3.27	227.08%				
Crown Surface / Depressions / Rutting	0.36		0.36	25.00%				
<i>Channels</i>								
Encroachments	0.40		0.40	27.78%				
<i>Supplemental</i>								
DWR Erosion Survey	0.14		0.14	9.72%				
<i>Unit Totals:</i>	2.15	0.51	4.19	290.97%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2012 Levee Inspection Results**

**Merced Streams Group**

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

\*\* 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.

Comments


**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet  
Fall 2012 Levee Inspection Results  
Merced Streams Group**

Waterway			Bank	Unit Miles
Unit No. 01 Black Rascal Diversion			Right	1.64
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/19/2012 - 04/19/2012		10/30/2012 - 10/30/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
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 - Fall 2012**

**Merced Streams Group**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Black Rascal Diversion							Right	1.64	10/30/2012 10/30/2012	Herman Phillips
LMR No.	Levee Mile		Category	Item	* Location	Rating + + + + Ma	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		° °	° °	7
DWR ID: DWR_NA0013_01_s_2012_7										
2			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		° °	° °	8
DWR ID: DWR_NA0013_01_s_2012_8										
3			Earthen Levee	Flood Preparedness & Training	WS	A Ma		° °	° °	9
DWR ID: DWR_NA0013_01_s_2012_9										
4	0.00	0.00	Earthen Levee	Vegetation	WS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The District has removed the vegetation from levee slopes.	37.314724 ° -120.396407 °	37.314724 ° -120.396407 °	2 Y
DWR ID: DWR_NA0013_01_s_2012_2										
5	0.51	0.51	Earthen Levee	Encroachments	WS	M En	GA : Garbage Inspector Comments: Box springs laying on both slopes should be removed from levee section.	37.321864 ° -120.396600 °	37.321864 ° -120.396604 °	5 Y
DWR ID: DWR_NA0013_01_f_2012_5										
6	1.07	1.52	Earthen Levee	Vegetation	WS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.329741 ° -120.396368 °	37.335623 ° -120.396136 °	4
DWR ID: DWR_NA0013_01_s_2012_4										
7	1.31	1.63	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.332825 ° -120.394887 °	37.337056 ° -120.396531 °	1 Y
DWR ID: DWR_NA0013_01_s_2012_1										
8	1.33	1.61	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.333046 ° -120.395109 °	37.337266 ° -120.396515 °	6
DWR ID: DWR_NA0013_01_f_2012_6										
9	1.33	1.40	Earthen Levee	Trim / Thin Trees	WS	U Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: The District has taken some of the vegetation off the waterward slope. More removal is needed to see the slope.	37.333067 ° -120.395105 °	37.334120 ° -120.395217 °	10 Y
DWR ID: DWR_NA0013_01_f_2012_10										
10	1.40	1.50	Earthen Levee	Trim / Thin Trees	WS	U Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: The District needs to remove more of the wild tree growth from the levee section.	37.334120 ° -120.395217 °	37.335325 ° -120.395780 °	11 Y
DWR ID: DWR_NA0013_01_f_2012_11										

**\* Location**

LS : Land Side  
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**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Black Rascal Diversion	Right	1.64	10/30/2012 10/30/2012	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Merced County Unit 1 Black Rascal Creek levee mile 0.00 looking downstream from waterside. Photo taken 10-30-2012.

phillips\_f\_20121203\_424.jpg



Levee Mile Report Line	5
Start Levee Mile	0.51
End Levee Mile	0.51
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking downstream from levee mile 0.51 discarded (2) box spring mattresses on both slopes. Photo taken 10-30-2012.

phillips\_f\_20121105\_377.jpg



Levee Mile Report Line	7
Start Levee Mile	1.31
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 1.31. Photo taken 10-30-2012.

phillips\_f\_20121105\_378.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Black Rascal Diversion	Right	1.64	10/30/2012 10/30/2012	Herman Phillips

Levee Mile Report Line	9
Start Levee Mile	1.33
End Levee Mile	1.40
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Black Rascal Creek looking downstream from levee mile 1.39 water side. Photo taken 10-30-2012.

phillips\_f\_20121105\_379.jpg



Levee Mile Report Line	10
Start Levee Mile	1.40
End Levee Mile	1.50
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking downstream from levee mile 1.40-1.54 waterward slope. Photo taken 10-30-2012.

phillips\_f\_20121105\_380.jpg



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**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet  
Fall 2012 Levee Inspection Results  
Merced Streams Group**

Waterway			Bank	Unit Miles
Unit No. 02 Black Rascal Diversion			Left	1.88
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/19/2012 - 04/19/2012		10/30/2012 - 10/30/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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**Merced Streams Group**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Black Rascal Diversion							Left	1.88	10/30/2012 10/30/2012	Herman Phillips
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Earthen Levee	Encroachments	LS	U En	PI : Pipe	37.337034 ° -120.387422 °	37.337034 ° -120.387422 °	2 Y
								DWR ID: DWR_NA0013_02_f_2012_2		
2	0.00	0.62	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.337617 ° -120.385293 °	37.332080 ° -120.394051 °	4 Y
								DWR ID: DWR_NA0013_02_s_2012_4		
3	0.01	0.01	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps.	37.337047 ° -120.387557 °	37.337047 ° -120.387557 °	3 Y
								DWR ID: DWR_NA0013_02_s_2012_3		
4	0.02	0.02	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.336957 ° -120.387735 °	37.336957 ° -120.387735 °	10 Y
								DWR ID: DWR_NA0013_02_f_2012_10		
5	0.44	0.44	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps.	37.333962 ° -120.392637 °	37.333962 ° -120.392637 °	17 Y
								DWR ID: DWR_NA0013_02_s_2012_17		
6	0.45	0.48	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C Ma	C3 : Add appropriate gravel or road base. Grade and compact.	37.333867 ° -120.392717 °	37.333640 ° -120.393184 °	9 Y
								DWR ID: DWR_NA0013_02_s_2012_9		
7	0.56	0.56	Earthen Levee	Encroachments	LS	M Ma	DE : Debris	37.332800 ° -120.394174 °	37.332800 ° -120.394174 °	6 Y
								DWR ID: DWR_NA0013_02_f_2012_6		
8	0.70	0.97	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.331107 ° -120.394673 °	37.327500 ° -120.396098 °	8 Y
								DWR ID: DWR_NA0013_02_s_2012_8		
9	0.95	1.05	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.327791 ° -120.396097 °	37.326354 ° -120.396074 °	7 Y
								DWR ID: DWR_NA0013_02_f_2012_7		
10	1.31	1.31	Earthen Levee	Encroachments	WS	C En	DE : Debris	37.322728 ° -120.394753 °	37.322728 ° -120.394753 °	1 Y
								DWR ID: DWR_NA0013_02_s_2012_1		
11	1.31	1.31	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	37.322615 ° -120.395948 °	37.322615 ° -120.395948 °	14 Y
								DWR ID: DWR_NA0013_02_s_2012_14		
12	1.35	1.45	Earthen Levee	Crown Surface / Depressions / Rutting	WS	M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.322212 ° -120.395620 °	37.320701 ° -120.395767 °	15 Y
								DWR ID: DWR_NA0013_02_s_2012_15		
13	1.55	1.55	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.319316 ° -120.396007 °	37.319316 ° -120.396007 °	11 Y
								DWR ID: DWR_NA0013_02_s_2012_11		

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Black Rascal Diversion	Left	1.88	10/30/2012 10/30/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments
New filtration system installed within the 10-foot of levee toe. Photo taken 10-30-2012.	
phillips_f_20121105_382.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking downstream from levee mile 0.02 at the landside slope. Photo taken 10-30-2012.	
phillips_f_20121105_381.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.44
End Levee Mile	0.44
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
These tree stumps have not been removed from levee section as of 10-30-2012.	
phillips_f_20120911_038.jpg	

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Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/19/2012 - 04/19/2012		11/21/2012 - 11/21/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Owens Creek Diversion						Right	1.44	11/21/2012 11/21/2012	Herman Phillips	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.00	Earthen Levee	Vegetation	LS	A Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.257705 ° -120.288577 °	37.257705 ° -120.288577 °	11 Y
DWR ID: DWR_NA0013_03_s_2012_11										
2	0.02	0.37	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.257901 ° -120.288319 °	37.262741 ° -120.288358 °	4
DWR ID: DWR_NA0013_03_s_2012_4										
3	0.40	0.40	Earthen Levee	Trim / Thin Trees	LS	C Ma	T1 : Trim trees to at least five feet above ground level.	37.261306 ° -120.288284 °	37.261306 ° -120.288284 °	6
DWR ID: DWR_NA0013_03_s_2012_6										
4	0.42	1.23	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.263518 ° -120.288153 °	37.272559 ° -120.280720 °	13
DWR ID: DWR_NA0013_03_s_2012_13										
5	0.56	0.62	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.265460 ° -120.288447 °	37.266225 ° -120.287980 °	3
DWR ID: DWR_NA0013_03_f_2012_3										
6	0.74	0.74	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.267714 ° -120.286717 °	37.267714 ° -120.286717 °	5
DWR ID: DWR_NA0013_03_f_2012_5										
7	1.00	1.00	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/31/2012: Site was visited on 07/26/2012. No significant changes observed. Dense vegetation presents at the site. 08/16/2011: No visible change. 100 percent vegetation coverage with star thistles. Minor cracking visible on the waterside slope. 11/30/2010: Site was not inspected this year due to time constraint. There have been no reports from the district that this site was corrected. Continue to monitor during flood events. 2009: Site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; it was previously rated "U". 8/26/2008: Terracetting erosion; frequent livestock traversing the slopes has caused deformation of the waterside levee slope. 9/11/2007: GPS extended from opposite bank using Google Earth. [2012 Site ID:NA0013U03RM1]	37.270800 ° -120.284180 °	37.270800 ° -120.284180 °	1 Y
DWR ID:										
8	1.11	1.24	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: This levee section has a history of rodent problems that has been known for more than 10 years.	37.271737 ° -120.282642 °	37.272498 ° -120.280511 °	9 Y
DWR ID: DWR_NA0013_03_f_2012_9										
9	1.20	1.20	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272444 ° -120.281282 °	37.272444 ° -120.281282 °	970
DWR ID: DWR_NA0013_03_s_2012_970										

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		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 2012**

**Merced Streams Group**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Owens Creek Diversion						Right	1.44	11/21/2012 11/21/2012	Herman Phillips	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
10	1.23	1.23	Earthen Levee	Animal Control	CR	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272553 ° -120.280742 °	37.272553 ° -120.280742 °	971
DWR ID: DWR_NA0013_03_s_2012_971										
11	1.24	1.24	Earthen Levee	Animal Control	CR	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: This unit is maintained as far as the vegetation is concerned, however there is a problem with the rodents. The District should have bait stations throughout the area where rodents are present.	37.272584 ° -120.280543 °	37.272584 ° -120.280543 °	8
DWR ID: DWR_NA0013_03_s_2012_8										
12	1.24	1.24	Earthen Levee	Animal Control	CR	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272569 ° -120.280443 °	37.272569 ° -120.280443 °	12
DWR ID: DWR_NA0013_03_s_2012_12										
13	1.25	1.30	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: The District needs to be more aggressive in their efforts of controlling the ground rodents. There should be some Bait Stations placed in infected areas.	37.272707 ° -120.280334 °	37.273379 ° -120.279976 °	7 Y
DWR ID: DWR_NA0013_03_s_2012_7										
14	1.25	1.25	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/31/2012: Site was visited on 07/24/2012. No significant changes observed. Dried grass covered the site. Dense vegetation. 08/16/2011: No visible change. 100 percent vegetation coverage with star thistles. Minor cracking visible on the waterside slope. Burrow holes visible. 11/30/2010: Site was not inspected this year due to time constraint. There have been no reports from the district that the site was repaired. Continue to monitor during flood events. 2009: Bank erosion scour that is immediately downstream of Mission Avenue bridge; noticeable terracetting damage from livestock traversing the slope; site is recommended as local maintenance issue, per CLRO Evaluation 2008 Report; site was previously rated "M". 8/26/2008: Terracetting damage from livestock; there is now a pocket erosion developing on the levee toe; site is 100 feet downstream of Mission Avenue bridge. [2012 Site ID:NA0013U03RM1.25]	37.272630 ° -120.280390 °	37.272630 ° -120.280390 °	2 Y
DWR ID:										

**\* Location**

LS : Land Side  
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**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Owens Creek Diversion	Right	1.44	11/21/2012 11/21/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Owens Creek, Merced County, Unit 3 levee mile 0.00 looking downstream. Photo taken 11-21-2012

phillips\_f\_20121203\_425.jpg



Levee Mile Report Line	7
Start Levee Mile	1.00
End Levee Mile	1.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A close look at the site, which is covered by thick vegetation

SJR2012\_NA0013U03RM1\_1.jpg



Levee Mile Report Line	7
Start Levee Mile	1.00
End Levee Mile	1.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Site covered with dense vegetation.

SJR2012\_NA0013U03RM1\_2.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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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**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Owens Creek Diversion	Right	1.44	11/21/2012 11/21/2012	Herman Phillips

Levee Mile Report Line	7
Start Levee Mile	1.00
End Levee Mile	1.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Wooden posts and fence on site

SJR2012\_NA0013U03RM1\_3.jpg



Levee Mile Report Line	8
Start Levee Mile	1.11
End Levee Mile	1.24
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Unit 3 Owens Creek, active rodents at levee miles 1.11-1.24 on the landside levee section with no bait stations. Photo taken 11-21-2012.

phillips\_f\_20121203\_426.jpg



Levee Mile Report Line	8
Start Levee Mile	1.11
End Levee Mile	1.24
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Owens Creek, Unit 3 at levee miles 1.11-1.24. The waterside has more active holes present. 11-21-2012.

phillips\_f\_20121203\_427.jpg



<b>* Location</b> LS : Land Side 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 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Owens Creek Diversion	Right	1.44	11/21/2012 11/21/2012	Herman Phillips

Levee Mile Report Line	13
Start Levee Mile	1.25
End Levee Mile	1.30
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Active animal burrows on levee slope and toe.

phillips\_f\_20120911\_046.jpg



Levee Mile Report Line	14
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

The site is covered with dense thistles.

SJR2012\_NA0013U03RM1.25\_1.jpg



Levee Mile Report Line	14
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

No significant change visible from the levee top

SJR2012\_NA0013U03RM1.25\_2.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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

**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet  
Fall 2012 Levee Inspection Results  
Merced Streams Group**

Waterway			Bank	Unit Miles
Unit No. 04 Owens Creek Diversion			Left	1.44
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/19/2012 - 04/19/2012		11/21/2012 - 11/21/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
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 - Fall 2012**

**Merced Streams Group**

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 04 Owens Creek Diversion					Left	1.44	11/21/2012 11/21/2012		Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.00	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.273679 ° -120.277755 °	37.273679 ° -120.277755 °	9 Y
DWR ID: DWR_NA0013_04_f_2012_9										
2	0.01	0.01	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.273082 ° -120.277984 °	37.273082 ° -120.277984 °	7 Y
DWR ID: DWR_NA0013_04_s_2012_7										
3	0.06	0.06	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.273335 ° -120.277752 °	37.273335 ° -120.277752 °	6
DWR ID: DWR_NA0013_04_f_2012_6										
4	0.12	0.12	Earthen Levee	Trim / Thin Trees	WS	C Ma	T1 : Trim trees to at least five feet above ground level.	37.272997 ° -120.280003 °	37.272997 ° -120.280003 °	29
DWR ID: DWR_NA0013_04_s_2012_29										
5	0.12	0.17	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.273070 ° -120.279985 °	37.272466 ° -120.280214 °	10
DWR ID: DWR_NA0013_04_s_2012_10										
6	0.14	0.14	Interior Drainage & Piping Systems	Vegetation & Obstructions	LS	C Ma		37.272825 ° -120.280005 °	37.272825 ° -120.280010 °	20
DWR ID: DWR_NA0013_04_s_2012_20										
7	0.15	0.28	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/31/2012: No significant changes observed 08/16/2011: No significant change was visible. Minor cracking on the waterside levee slope was spotted. 100 percent vegetation coverage with star thistles. 11/30/2010: Site was not inspected this year due to time constraints. There have been no reports from the district that the site has been corrected. 2009: Site recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; previously rated "U". 9/10/2007: GPS extended from opposite bank using Google Earth; signs of vehicular damage on levee. [2012 Site ID:NA0013U04RM0.21]	37.272283 ° -120.280869 °	37.272283 ° -120.280869 °	3 Y
DWR ID:										
8	0.18	0.18	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.272429 ° -120.280251 °	37.272429 ° -120.280251 °	1
DWR ID: DWR_NA0013_04_s_2012_1										
9	0.18	0.23	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272429 ° -120.280250 °	37.272380 ° -120.280360 °	8 Y
DWR ID: DWR_NA0013_04_f_2012_8										
10	0.23	0.23	Earthen Levee	Animal Control	CR	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.272219 ° -120.281157 °	37.272219 ° -120.281157 °	31
DWR ID: DWR_NA0013_04_s_2012_31										
11	0.23	0.25	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272157 ° -120.281152 °	37.272029 ° -120.281500 °	17
DWR ID: DWR_NA0013_04_f_2012_17										
12	0.25	0.86	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272081 ° -120.281483 °	37.265389 ° -120.288041 °	21
DWR ID: DWR_NA0013_04_s_2012_21										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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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**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/21/2012 11/21/2012	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
13	0.42	0.43	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/24/2012: No significant changes observed. 08/16/2011: No visible significant changes. 100 percent vegetation coverage with star thistles. Minor cracking visible on the waterside slope. 11/30/2010: Site was not inspected this year due to time constraints. There have been no reports from the district that the site has been corrected. 2009: Site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; terracetting damage from livestock traversing; there is a wooden platform installed on site; landside is on high ground; site was previously rated "M". 9/10/2007: GPS extended from opposite bank using Google Earth; GPS on file is correct. [2012 Site ID:NA0013U04RM0.42]	37.270630 ° -120.283970 °	37.270630 ° -120.283970 °	4 Y
DWR ID:										
14	0.48	0.54	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.270016 ° -120.284539 °	37.269254 ° -120.285127 °	22
DWR ID: DWR_NA0013_04_s_2012_22										
15	0.50	0.50	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.269709 ° -120.284712 °	37.269709 ° -120.284712 °	2
DWR ID: DWR_NA0013_04_s_2012_2										
16	0.55	1.01	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: This levee section, waterward side, has been taken over with rodents. Bait stations are needed here to help control them.	37.269084 ° -120.285150 °	37.263043 ° -120.287847 °	19 Y
DWR ID: DWR_NA0013_04_f_2012_19										
17	0.60	1.04	Earthen Levee	Animal Control	WS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.268544 ° -120.285738 °	37.262887 ° -120.287889 °	12
DWR ID: DWR_NA0013_04_s_2012_12										
18	0.93	0.93	Earthen Levee	Animal Control	CR	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.264325 ° -120.288038 °	37.264325 ° -120.288038 °	36
DWR ID: DWR_NA0013_04_s_2012_36										
19	0.97	0.97	Earthen Levee	Cracking	WSA/W	Ma	CR1 : Monitor and have inspected by geotechnical engineer. Inspector Comments: Tall weeds present along both levee slopes prevent being able to see the cracks mentioned in previous inspection.	37.263850 ° -120.288021 °	37.263850 ° -120.288021 °	14 Y
DWR ID: DWR_NA0013_04_s_2012_14										
20	1.03	1.39	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.262920 ° -120.287842 °	37.257759 ° -120.287956 °	18
DWR ID: DWR_NA0013_04_s_2012_18										
21	1.03	1.43	Channels	Encroachments	WS	M Ma		37.262892 ° -120.287887 °	37.257331 ° -120.288152 °	16
DWR ID: DWR_NA0013_04_s_2012_16										

<b>* Location</b> LS : Land Side 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 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/21/2012 11/21/2012	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
22	1.04	1.04	Earthen Levee	Encroachments	LS	M	GA : Garbage	37.262885 ° -120.287894 °	37.262885 ° -120.287894 °	13
								DWR ID: DWR_NA0013_04_s_2012_13		

<b>* Location</b> LS : Land Side 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 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/21/2012 11/21/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Owens Creek Unit 4 looking downstream from levee mile 0.00. Photo taken 11-21-2012.	
phillips_f_20121203_431.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Owens Creek Unit 4 standing at levee mile 0.00 looking downstream. Photo taken 11-21-2011.	
phillips_f_20120911_055.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.15
End Levee Mile	0.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
The site is covered with dense star thistles. No significant changes visible	
SJR2012_NA0013U04RM0.21_1.jpg	



<b>* Location</b> LS : Land Side 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 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/21/2012 11/21/2012	Herman Phillips

Levee Mile Report Line	7
Start Levee Mile	0.15
End Levee Mile	0.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

The site is covered with dense star thistles

SJR2012\_NA0013U04RM0.21\_2.jpg



Levee Mile Report Line	9
Start Levee Mile	0.18
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Owens Creek Unit 4 levee section infested with rodents, no bait stations present. Photo taken 11-21-2012.

phillips\_f\_20121203\_428.jpg



Levee Mile Report Line	9
Start Levee Mile	0.18
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Owens Creek looking downstream to 0.23 at rodent holes. Photo taken 11-21-2012.

phillips\_f\_20121203\_429.jpg



**\* Location**

LS : Land Side  
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**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/21/2012 11/21/2012	Herman Phillips

Levee Mile Report Line	13
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct look at the site

SJR2012\_NA0013U04RM0.42\_1.jpg



Levee Mile Report Line	13
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

The site is covered with thick vegetation

SJR2012\_NA0013U04RM0.42\_2.jpg



Levee Mile Report Line	16
Start Levee Mile	0.55
End Levee Mile	1.01
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodents continue on levee section. No bait stations. 2012 landward and waterward.

phillips\_f\_20121203\_430.jpg



**\* Location**

LS : Land Side  
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**

**Levee Inspection Report By Mile - Fall 2012**

**Merced Streams Group**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/21/2012 11/21/2012	Herman Phillips

Levee Mile Report Line	19
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Water Side
Category	Earthen Levee
Item	Cracking

Minor surface cracking on waterside levee slope.

phillips\_f\_20120911\_056.jpg



<b>* Location</b> LS : Land Side 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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