

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

NA0010	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Lower San Joaquin Levee District	M *	191.36						
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	0.48		0.48	0.25%				
Encroachments	0.57		0.57	0.30%	2.86			
Animal Control	1.40		1.40	0.73%				
Slope Stability	1.06		1.06	0.55%				
Erosion / Bank Caving	0.15	0.01	0.19	0.10%				
Crown Surface / Depressions / Rutting	12.17		12.17	6.36%				
Repair Gates	0.02		0.02	0.01%				
<i>Channels</i>								
Encroachments					0.01			
<i>LMA Totals:</i>	15.85	0.01	15.89	8.30% *	2.87	0.00	0.00	0.00
Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	22.56						
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	0.42		0.42	1.86%	0.55			
Encroachments	0.57		0.57	2.53%				
Animal Control	0.08		0.08	0.36%				
Crown Surface / Depressions / Rutting	0.99		0.99	4.39%				
Repair Gates	0.01		0.01	0.04%				
<i>Unit Totals:</i>	2.07	0.00	2.07	9.18%	0.55	0.00	0.00	0.00
Unit No. 02A San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	7.87						
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>								
Encroachments					0.01			
Erosion / Bank Caving		0.01	0.04	0.51%				
Crown Surface / Depressions / Rutting	2.10		2.10	26.68%				
<i>Unit Totals:</i>	2.10	0.01	2.14	27.19%	0.01	0.00	0.00	0.00
Unit No. 02B San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
NA0010	U	5.92						
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>								
Crown Surface / Depressions / Rutting	5.58		5.58	94.26%				
<i>Unit Totals:</i>	5.58	0.00	5.58	94.26%	0.00	0.00	0.00	0.00

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San Joaquin River Basin (cont.)

Unit No. 03 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	2.16						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

Unit No. 04 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	1.58						
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>								
Encroachments					1.17			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	1.17	0.00	0.00	0.00

Unit No. 05 East Side Bypass RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	34.75						
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>								
Encroachments					0.23			
Animal Control	0.04		0.04	0.12%				
Erosion / Bank Caving	0.12		0.12	0.35%				
Crown Surface / Depressions / Rutting	1.30		1.30	3.74%				
<i>Unit Totals:</i>	1.46	0.00	1.46	4.20%	0.23	0.00	0.00	0.00

Unit No. 06 East Side Bypass LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	36.38						
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>								
Encroachments					0.90			
Animal Control	0.30		0.30	0.83%				
Slope Stability	0.74		0.74	2.03%				
Crown Surface / Depressions / Rutting	1.22		1.22	3.35%				
<i>Unit Totals:</i>	2.26	0.00	2.26	6.21%	0.90	0.00	0.00	0.00

Unit No. 07 Bear Creek Bypass RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	3.62						
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	0.03		0.03	0.83%				
<i>Unit Totals:</i>	0.03	0.00	0.03	0.83%	0.00	0.00	0.00	0.00

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 08 Bear Creek Bypass LB		Overall Unit Rating	Total Unit Miles						
NA0010		A	3.63						
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	0.22		0.22	6.06%					
<i>Unit Totals:</i>	0.22	0.00	0.22	6.06%	0.00	0.00	0.00	0.00	

Unit No. 09 Owens Creek Bypass RB		Overall Unit Rating	Total Unit Miles						
NA0010		A	0.88						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
No Items									
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%					

Unit No. 10 Owens Creek Bypass LB		Overall Unit Rating	Total Unit Miles						
NA0010		A	0.82						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
No Items									
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%					

Unit No. 11 Mariposa Bypass RB		Overall Unit Rating	Total Unit Miles						
NA0010		A	3.31						
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	0.01		0.01	0.30%					
Repair Gates	0.01		0.01	0.30%					
<i>Unit Totals:</i>	0.02	0.00	0.02	0.60%	0.00	0.00	0.00	0.00	

Unit No. 12 Mariposa Bypass LB		Overall Unit Rating	Total Unit Miles						
NA0010		A	3.33						
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	0.01		0.01	0.30%					
<i>Unit Totals:</i>	0.01	0.00	0.01	0.30%	0.00	0.00	0.00	0.00	

Unit No. 13 Ash Slough RB		Overall Unit Rating	Total Unit Miles						
NA0010		U	1.28						
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	0.01		0.01	0.78%					
Crown Surface / Depressions / Rutting	0.95		0.95	74.22%					
<i>Unit Totals:</i>	0.96	0.00	0.96	75.00%	0.00	0.00	0.00	0.00	

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San Joaquin River Basin (cont.)

Unit No. 14 Ash Slough LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	1.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
Unit No. 15 Berenda Slough RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	2.03						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
Unit No. 16 Berenda Slough LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	1.98						
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>								
Slope Stability	0.01		0.01	0.51%				
<i>Unit Totals:</i>	0.01	0.00	0.01	0.51%	0.00	0.00	0.00	0.00
Unit No. 17 Chowchilla Canal Bypass RB	Overall Unit Rating	Total Unit Miles						
NA0010	A	16.09						
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	0.36		0.36	2.24%				
<i>Unit Totals:</i>	0.36	0.00	0.36	2.24%	0.00	0.00	0.00	0.00
Unit No. 18 Chowchilla Canal Bypass LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	15.33						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
Unit No. 22A East Side Canal LB	Overall Unit Rating	Total Unit Miles						
NA0010	A	5.50						
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	0.11		0.11	2.00%				
Erosion / Bank Caving	0.03		0.03	0.55%				
Crown Surface / Depressions / Rutting	0.03		0.03	0.55%				
<i>Channels</i>								
Encroachments					0.01			
<i>Unit Totals:</i>	0.17	0.00	0.17	3.09%	0.01	0.00	0.00	0.00

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San Joaquin River Basin (cont.)

Unit No. 23 San Joaquin River RB	Overall Unit Rating	Total Unit Miles							
NA0010	A	10.25							
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	0.06		0.06	0.59%					
Animal Control	0.21		0.21	2.05%					
Slope Stability	0.31		0.31	3.02%					
<i>Unit Totals:</i>	0.58	0.00	0.58	5.66%	0.00	0.00	0.00	0.00	

Unit No. 24 San Joaquin River LB	Overall Unit Rating	Total Unit Miles							
NA0010	A	8.34							
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	0.02		0.02	0.24%					
<i>Unit Totals:</i>	0.02	0.00	0.02	0.24%	0.00	0.00	0.00	0.00	

Unit No. 25 Salt Slough RB	Overall Unit Rating	Total Unit Miles							
NA0010	A	2.47							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
No Items									
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%					

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

** 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 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	22.56
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/04/2013 - 06/06/2013		11/19/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
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 2013

Lower San Joaquin Levee District

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

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	Operations & Maintenance Manuals	LS	A Ma		°	°	23
DWR ID: DWR_NA0010_01_s_2013_23										
2	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	24
DWR ID: DWR_NA0010_01_s_2013_24										
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	25
DWR ID: DWR_NA0010_01_s_2013_25										
4	0.03	0.07	Earthen Levee	Animal Control	LS	A Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.348522 ° -120.959090 °	37.348190 ° -120.959603 °	114 Y
DWR ID: DWR_NA0010_01_s_2012_14										
5	0.07	0.15	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.348223 ° -120.959593 °	37.347282 ° -120.960470 °	4
DWR ID: DWR_NA0010_01_s_2012_4										
6	0.07	2.52	Earthen Levee	Vegetation	LS A/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.348222 ° -120.959598 °	37.328627 ° -120.934388 °	3
DWR ID: DWR_NA0010_01_s_2012_3										
7	0.16	0.16	Earthen Levee	Trim / Thin Trees	WSA/W	Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.347152 ° -120.960560 °	37.347152 ° -120.960560 °	7
DWR ID: DWR_NA0010_01_s_2012_7										
8	0.24	0.27	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.346152 ° -120.961402 °	37.345822 ° -120.961638 °	1
DWR ID: DWR_NA0010_01_s_2012_1										
9	3.18	3.18	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.321053 ° -120.928785 °	37.321053 ° -120.928785 °	10
DWR ID: DWR_NA0010_01_s_2012_10										
10	3.50	3.96	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.	°	°	17
DWR ID: DWR_NA0010_01_f_2012_17										
11	3.72	3.74	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.313892 ° -120.926507 °	37.313598 ° -120.926607 °	2
DWR ID: DWR_NA0010_01_s_2012_2										
12	4.00	4.08	Earthen Levee	Encroachments	LS	M En	DT : Ditch Inspector Comments: Irrigation ditch at landside toe	37.310837 ° -120.926182 °	37.310003 ° -120.925313 °	5 Y
DWR ID: DWR_NA0010_01_s_2012_5										
13	4.20	4.20	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.308540 ° -120.924003 °	37.308540 ° -120.924003 °	6
DWR ID: DWR_NA0010_01_s_2012_6										

*** 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 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
14	4.72	4.72	Earthen Levee	Animal Control	LS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Levee landward toe damaged by live stock.	37.302398 ° -120.920920 °	37.302398 ° -120.920920 °	9 Y
DWR ID: DWR_NA0010_01_s_2013_9										
15	5.75	5.75	Earthen Levee	Animal Control	LS A/W	Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes on landside slope near fence pole.	37.304057 ° -120.907200 °	37.304057 ° -120.907200 °	116 Y
DWR ID: DWR_NA0010_01_s_2012_116										
16	6.04	6.46	Earthen Levee	Vegetation	WSA/W	Ma	V9 : Keep the crown roadway free of vegetation.	37.303715 ° -120.902115 °	37.303838 ° -120.891912 °	13
DWR ID: DWR_NA0010_01_s_2012_13										
17	6.04	6.46	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.303717 ° -120.902108 °	37.303837 ° -120.891907 °	12
DWR ID: DWR_NA0010_01_s_2012_12										
18	6.83	7.36	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.302540 ° -120.889113 °	37.299882 ° -120.880217 °	11
DWR ID: DWR_NA0010_01_s_2013_11										
19	7.41	7.81	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.299855 ° -120.879455 °	37.298730 ° -120.872387 °	14
DWR ID: DWR_NA0010_01_s_2012_14										
20	8.53	9.04	Earthen Levee	Vegetation	LS A/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.296267 ° -120.860195 °	37.297492 ° -120.851050 °	16
DWR ID: DWR_NA0010_01_s_2012_16										
21	8.53	9.04	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.296262 ° -120.860183 °	37.297492 ° -120.851052 °	15
DWR ID: DWR_NA0010_01_s_2012_15										
22	9.21	10.76	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: District re-graded levee crown and control vegetation on levee crown.	37.296145 ° -120.848588 °	37.293077 ° -120.839170 °	117 Y
DWR ID: DWR_NA0010_01_s_2012_117										
23	9.67	9.67	Earthen Levee	Repair Gates	CR	M Ma	Inspector Comments: Need to replace hinges.	37.294984 ° -120.840680 °	37.294984 ° -120.840680 °	18 Y
DWR ID: DWR_NA0010_01_f_2013_18										
24	10.88	11.41	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	Ma	C3 : Add appropriate gravel or road base. Grade and compact.	37.283153 ° -120.830870 °	37.278878 ° -120.824165 °	28 Y
DWR ID: DWR_NA0010_01_s_2013_28										
25	12.62	12.62	Earthen Levee	Animal Control	LS A/W	Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent holes along fence line on landward slope.	37.258970 ° -120.826388 °	37.258970 ° -120.826388 °	29
DWR ID: DWR_NA0010_01_s_2013_29										

*** 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

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Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
26	15.79	15.79	Earthen Levee	Encroachments	LS A/W Ma	TR : Tree or limb Inspector Comments: Broken tree limb on landward toe.	37.226470 ° -120.799622 °	37.226470 ° -120.799622 °	30 Y
							DWR ID: DWR_NA0010_01_s_2013_30		
27	17.45	17.45	Earthen Levee	Animal Control	LS A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.216000 ° -120.778950 °	37.216000 ° -120.778950 °	118
							DWR ID: DWR_NA0010_01_s_2012_118		
28	17.68	17.68	Earthen Levee	Animal Control	LS A/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Rodent holes located on landward ramp.	37.215890 ° -120.774858 °	37.215890 ° -120.774858 °	31
							DWR ID: DWR_NA0010_01_s_2013_31		
29	19.33	19.33	Earthen Levee	Encroachments	CR M Ma	PI : Pipe Inspector Comments: Farmer installed a pipe across levee crown, landside and waterside slopes. Ramp is not according to standards.	37.200923 ° -120.756987 °	37.200923 ° -120.756987 °	8 Y
							DWR ID: DWR_NA0010_01_s_2012_8		
30	19.95	20.23	Earthen Levee	Vegetation	CR A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove wild growth from levee crown.	37.196218 ° -120.762400 °	37.193945 ° -120.759845 °	32 Y
							DWR ID: DWR_NA0010_01_s_2013_32		
31	21.46	22.02	Earthen Levee	Encroachments	LS M Ma	AT : Agricultural tilling Inspector Comments: Farmer cutting into landside toe and slope.	37.178679 ° -120.760710 °	37.172663 ° -120.754894 °	20 Y
							DWR ID: DWR_NA0010_01_f_2012_20		
32	22.09	22.56	Earthen Levee	Encroachments	LS M En	DT : Ditch	37.169962 ° -120.754240 °	37.166983 ° -120.750127 °	22 Y
							DWR ID: DWR_NA0010_01_s_2012_22		
33	22.16	22.55	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W Ma	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: Rutting on levee crown.	37.170692 ° -120.754445 °	37.166802 ° -120.749623 °	21
							DWR ID: DWR_NA0010_01_f_2012_21		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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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**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical rodent hole at this location.

richard_f_20131112_176.jpg



Levee Mile Report Line	4
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking south at repaired site on landward slope.
(Spring 2013)

richard_f_20131112_177.JPG



Levee Mile Report Line	12
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at irrigation ditch at landside toe.

richard_f_20131112_165.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at irrigation ditch at landside toe.

richard_f_20131112_166.jpg



Levee Mile Report Line	14
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking south at damage slope by livestock on landward slope.

richard_f_20131112_168.JPG



Levee Mile Report Line	14
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking southeast at erosion on landward toe.

richard_f_20131121_278.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	5.75
End Levee Mile	5.75
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking east at one of several rodent holes on landside shoulder and slope.

richard_f_20131112_178.jpg



Levee Mile Report Line	15
Start Levee Mile	5.75
End Levee Mile	5.75
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking northeast at one of several holes on landside shoulder and slope.

richard_f_20131112_179.jpg



Levee Mile Report Line	15
Start Levee Mile	5.75
End Levee Mile	5.75
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking south at repaired rodent site on landside slope. (Fall 2012)

richard_f_20131112_180.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	9.21
End Levee Mile	10.76
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at typical view of vegetation on levee crown.

richard_f_20131112_181.jpg



Levee Mile Report Line	22
Start Levee Mile	9.21
End Levee Mile	10.76
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at vegetation on levee crown.
(Spring 2013)

richard_f_20131112_182.JPG



Levee Mile Report Line	22
Start Levee Mile	9.21
End Levee Mile	10.76
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at levee crown. (Fall 2013)

richard_f_20131121_279.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
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+ Issue Type

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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	9.67
End Levee Mile	9.67
Location	Crown
Category	Earthen Levee
Item	Repair Gates

Looking at damaged gate across levee crown.

richard_f_20131121_280.JPG



Levee Mile Report Line	24
Start Levee Mile	10.88
End Levee Mile	11.41
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at vegetation on levee crown.

richard_f_20131112_173.JPG



Levee Mile Report Line	24
Start Levee Mile	10.88
End Levee Mile	11.41
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at re-graded levee and added road base on levee crown.

richard_f_20131121_281.JPG



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	15.79
End Levee Mile	15.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at a downed tree limb on landward slope and toe.

richard_f_20131112_174.JPG



Levee Mile Report Line	29
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking south at pipe across levee crown.

richard_f_20131112_167.jpg



Levee Mile Report Line	30
Start Levee Mile	19.95
End Levee Mile	20.23
Location	Crown
Category	Earthen Levee
Item	Vegetation

Looking north at vegetation on levee crown,

richard_f_20131112_175.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	21.46
End Levee Mile	22.02
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at farmer discing landside slope.

richard_f_20131112_169.JPG



Levee Mile Report Line	31
Start Levee Mile	21.46
End Levee Mile	22.02
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at farmer discing into landside slope.

richard_f_20131112_170.JPG



Levee Mile Report Line	32
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking upstream at irrigation at landside toe.

richard_f_20131112_171.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	11/19/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking downstream at irrigation ditch at landside toe.

richard_f_20131112_172.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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 02A San Joaquin River			Left	7.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	06/06/2013 - 06/07/2013		11/26/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
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.

Lower San Joaquin Levee District

DWR ID: DWR NA0010 02A s 2012 3Page 1 of 5

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.70
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking north at vegetation on levee crown.

richard_f_20131112_185.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	7.87
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard_f_20131127_292.JPG



Levee Mile Report Line	3
Start Levee Mile	0.13
End Levee Mile	0.13
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at large rodent hole on landward slope.

richard_f_20131112_188.JPG



*** Location**

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**** 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**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.13
End Levee Mile	0.13
Location	Crown
Category	Earthen Levee
Item	Animal Control

Looking at rodent hole on levee crown.

richard_f_20131112_187.JPG



Levee Mile Report Line	5
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at large erosion on waterside slope. (Spring 2012)

richard_f_20131112_186.jpg



Levee Mile Report Line	5
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at large erosion on waterward slope. (Fall 2013)

richard_f_20131127_293.JPG



*** Location**

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WS : Water Side
CR : Crown

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	2.33
End Levee Mile	2.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at ramp on landside slope near Hwy 140.

richard_f_20131112_183.jpg



Levee Mile Report Line	6
Start Levee Mile	2.33
End Levee Mile	2.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at ramp on waterside slope near Hwy 140.

richard_f_20131112_184.jpg



Levee Mile Report Line	8
Start Levee Mile	7.76
End Levee Mile	7.76
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north dense vegetation at landside slope and toe.

richard_f_20131112_189.jpg



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	7.76
End Levee Mile	7.76
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at removed vegetation on landside berm. (Fall 2012)

richard_f_20131112_190.JPG



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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 02B San Joaquin River			Left	5.92
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	06/06/2013 - 06/06/2013		11/26/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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If additional items are noted, further documentation of those items must also be submitted.

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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River				Left	5.92	11/26/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	7.87	13.45	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: Regrade levee crown excess rutting.	37.231279 ° -120.811852 °	37.176608 ° -120.762619 °	3 Y
DWR ID: DWR_NA0010_02B_s_2012_3									
2	8.78	13.79	Earthen Levee	Vegetation	LS A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.231428 ° -120.811993 °	° °	1 Y
DWR ID: DWR_NA0010_02B_f_2013_1									
3	9.46	9.46	Earthen Levee	Encroachments	LS A/W Ma	TR : Tree or limb Inspector Comments: Broken tree limb on landside slope.	37.220212 ° -120.788637 °	37.220212 ° -120.788637 °	2 Y
DWR ID: DWR_NA0010_02B_f_2012_2									
4	9.50	9.98	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.220463 ° -120.787837 °	37.216298 ° -120.783906 °	6 Y
DWR ID: DWR_NA0010_02B_s_2012_6									
5	9.66	9.66	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.220598 ° -120.785293 °	37.220598 ° -120.785293 °	9 Y
DWR ID: DWR_NA0010_02B_s_2013_9									
6	12.10	12.10	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove wild roses or berryvines on landside toe.	37.193504 ° -120.763859 °	37.193504 ° -120.763859 °	5 Y
DWR ID: DWR_NA0010_02B_s_2012_5									
7	12.71	12.71	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.185688 ° -120.768181 °	37.185688 ° -120.768181 °	4 Y
DWR ID: DWR_NA0010_02B_s_2012_4									
8	13.47	13.47	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.176397 ° -120.762280 °	37.176397 ° -120.762280 °	8 Y
DWR ID: DWR_NA0010_02B_s_2013_8									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	7.87
End Levee Mile	13.45
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking north at vegetation on levee crown.

richard_f_20131112_192.jpg



Levee Mile Report Line	1
Start Levee Mile	7.87
End Levee Mile	13.45
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking at typical view of levee crown.

richard_f_20131112_193.JPG



Levee Mile Report Line	1
Start Levee Mile	7.87
End Levee Mile	13.45
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking north at levee crown.

richard_f_20131112_194.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	8.78
End Levee Mile	13.79
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard_f_20131127_294.JPG



Levee Mile Report Line	3
Start Levee Mile	9.46
End Levee Mile	9.46
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at broken tree limb on landside slope.

richard_f_20131112_191.JPG



Levee Mile Report Line	4
Start Levee Mile	9.50
End Levee Mile	9.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northwest at dense vegetation on landside slope and toe.

richard_f_20131112_195.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	9.50
End Levee Mile	9.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at removed wild growth on landside toe. (Fall 2012)

richard_f_20131112_196.JPG



Levee Mile Report Line	5
Start Levee Mile	9.66
End Levee Mile	9.66
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at tree on landward toe.

richard_f_20131112_198.JPG



Levee Mile Report Line	8
Start Levee Mile	13.47
End Levee Mile	13.47
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at overhanging tree limb on landward slope.

richard_f_20131112_197.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**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River			Right	2.16
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/06/2013 - 06/06/2013		11/26/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
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.

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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.16	11/26/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	2.16	Earthen Levee	Vegetation	WS	A	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Typical view of levee.	37.106122 ° -120.585670 °	37.098825 ° -120.576995 °	1 Y

DWR ID: DWR_NA0010_03_s_2012_1

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.16	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.16
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of levee.

richard_f_20131127_303.JPG



*** Location**

LS : Land Side
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**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 04 San Joaquin River			Left	1.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/06/2013 - 06/06/2013		11/26/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.58	11/26/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.32	1.49	Earthen Levee	Encroachments	CR	M En	DT : Ditch Inspector Comments: Agricultural Ditch within 10' easement.	37.108822 ° -120.590718 °	37.096532 ° -120.578027 °	3 Y

DWR ID: DWR_NA0010_04_s_2012_3

*** 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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.58	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.32
End Levee Mile	1.49
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking north at irrigation ditch at landside toe.

richard_f_20131112_199.jpg



Levee Mile Report Line	1
Start Levee Mile	0.32
End Levee Mile	1.49
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking north at irrigation ditch at landside toe.

richard_f_20131112_200.jpg



Levee Mile Report Line	1
Start Levee Mile	0.32
End Levee Mile	1.49
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking north at irrigation ditch at landward toe.
(Fall 2013)

richard_f_20131127_304.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**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 05 East Side Bypass			Right	34.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/04/2013 - 06/06/2013		11/20/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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- c) corrections to deficiencies noted in this report

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass				Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	34.75	Earthen Levee	Vegetation	WS Ma	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.127740 ° -120.585198 °	37.098363 ° -120.544555 °	17 Y
DWR ID: DWR_NA0010_05_f_2012_17										
2	0.64	0.64	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	37.273445 ° -120.815210 °	37.273445 ° -120.815210 °	24 Y
DWR ID: DWR_NA0010_05_s_2013_24										
3	0.81	2.07	Earthen Levee	Crown Surface / Depressions / Rutting	CR En	A/W	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.272262 ° -120.812532 °	37.259735 ° -120.797307 °	169
DWR ID: DWR_NA0010_05_s_2012_169										
4	2.81	2.86	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.256803 ° -120.785407 °	37.256835 ° -120.784528 °	3 Y
DWR ID: DWR_NA0010_05_s_2012_3										
5	3.19	3.19	Earthen Levee	Encroachments	WS En	M	RA : Ramp Inspector Comments: Unauthorized ramp on waterside slope.	37.256554 ° -120.778847 °	37.256554 ° -120.778847 °	7 Y
DWR ID: DWR_NA0010_05_f_2012_7										
6	3.32	3.32	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	37.255297 ° -120.777032 °	37.255297 ° -120.777032 °	1
DWR ID: DWR_NA0010_05_s_2012_1										
7	3.54	3.54	Earthen Levee	Encroachments	LS Ma	A/W	TR : Tree or limb Inspector Comments: Downed tree limb on landside slope and toe.	37.255192 ° -120.773595 °	37.255192 ° -120.773595 °	2 Y
DWR ID: DWR_NA0010_05_s_2012_2										
8	4.99	4.99	Earthen Levee	Animal Control	LS Ma	A/W	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.240732 ° -120.749512 °	37.240732 ° -120.749512 °	12 Y
DWR ID: DWR_NA0010_05_f_2012_12										
9	6.50	6.50	Earthen Levee	Animal Control	WS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.230497 ° -120.727263 °	37.230497 ° -120.727263 °	15
DWR ID: DWR_NA0010_05_s_2012_15										
10	6.59	6.59	Earthen Levee	Animal Control	CR Ma	A/W	Inspector Comments: Rodent hole on top of levee crown.	37.229672 ° -120.726358 °	37.229672 ° -120.726358 °	25
DWR ID: DWR_NA0010_05_s_2013_25										
11	8.06	8.06	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.213600 ° -120.706630 °	37.213600 ° -120.706630 °	4
DWR ID: DWR_NA0010_05_s_2012_4										
12	8.83	8.83	Earthen Levee	Animal Control	WS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.205778 ° -120.696843 °	37.205778 ° -120.696843 °	5
DWR ID: DWR_NA0010_05_s_2012_5										
13	11.49	11.49	Earthen Levee	Trim / Thin Trees	LS En	A/W	T1 : Trim trees to at least five feet above ground level.	37.186440 ° -120.657870 °	37.186440 ° -120.657870 °	10
DWR ID: DWR_NA0010_05_s_2012_10										
14	12.63	13.14	Earthen Levee	Vegetation	WS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.175822 ° -120.645384 °	37.174496 ° -120.636638 °	13
DWR ID: DWR_NA0010_05_f_2012_13										

*** Location**

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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**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass				Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	12.87	13.08	Earthen Levee	Encroachments	LS	M En	FE : Fence Inspector Comments: Electric fence on landward slope.	37.175782 ° -120.641112 °	37.174977 ° -120.637342 °	27
DWR ID: DWR_NA0010_05_s_2013_27										
16	24.86	25.66	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.054377 ° -120.496231 °	37.045531 ° -120.486959 °	18
DWR ID: DWR_NA0010_05_f_2012_18										
17	25.49	25.54	Earthen Levee	Animal Control	LS A/W	En	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.047630 ° -120.488530 °	37.047042 ° -120.488092 °	9
DWR ID: DWR_NA0010_05_s_2012_9										
18	26.88	27.90	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.032681 ° -120.473372 °	37.032574 ° -120.454938 °	19
DWR ID: DWR_NA0010_05_f_2012_19										
19	26.88	27.90	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.032681 ° -120.473370 °	37.032573 ° -120.454938 °	20 Y
DWR ID: DWR_NA0010_05_f_2012_20										
20	29.58	29.70	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site. Inspector Comments: Landside erosion caused by livestock.	37.020272 ° -120.433737 °	37.018712 ° -120.432682 °	171 Y
DWR ID: DWR_NA0010_05_s_2012_171										
21	29.76	31.66	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.017953 ° -120.432132 °	36.996773 ° -120.410739 °	21
DWR ID: DWR_NA0010_05_f_2012_21										
22	29.80	29.80	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.017540 ° -120.431955 °	37.017540 ° -120.431955 °	16
DWR ID: DWR_NA0010_05_s_2012_16										
23	30.36	31.66	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.	37.010443 ° -120.426820 °	36.996772 ° -120.410739 °	22
DWR ID: DWR_NA0010_05_f_2012_22										
24	34.50	34.50	Earthen Levee	Encroachments	WS	M En	RA : Ramp Inspector Comments: Unauthorized ramp on waterside slope.	36.978555 ° -120.368467 °	36.978555 ° -120.368467 °	11 Y
DWR ID: DWR_NA0010_05_s_2012_11										

*** 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	34.75
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard_f_20131127_295.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	34.75
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of levee.

richard_f_20131127_296.JPG



Levee Mile Report Line	2
Start Levee Mile	0.64
End Levee Mile	0.64
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking east at untrimmed trees on landward toe.

richard_f_20131112_209.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	2.81
End Levee Mile	2.86
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at dense trees on landside slope.

richard_f_20131112_202.jpg



Levee Mile Report Line	4
Start Levee Mile	2.81
End Levee Mile	2.86
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at trimmed trees on landward slope and toe.

richard_f_20131112_203.JPG



Levee Mile Report Line	5
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized ramp on waterside slope.

richard_f_20131112_204.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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at unauthorized ramp on waterside slope.	
richard_f_20131112_205.JPG	



Levee Mile Report Line	5
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at unauthorized ramp on waterward slope.	
richard_f_20131112_206.JPG	



Levee Mile Report Line	7
Start Levee Mile	3.54
End Levee Mile	3.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at down tree limb on landside slope and toe.	
richard_f_20131112_201.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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	4.99
End Levee Mile	4.99
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking east at levee damage by livestock on landside slope.

richard_f_20131112_207.JPG



Levee Mile Report Line	8
Start Levee Mile	4.99
End Levee Mile	4.99
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking south at repaired livestock erosion on landward slope.

richard_f_20131121_291.JPG



Levee Mile Report Line	19
Start Levee Mile	26.88
End Levee Mile	27.90
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at typical view of levee crown.

richard_f_20131112_208.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	19
Start Levee Mile	26.88
End Levee Mile	27.90
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking south at a properly maintained levee crown.	
richard_f_20131127_297.JPG	



Levee Mile Report Line	20
Start Levee Mile	29.58
End Levee Mile	29.70
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking south at erosion caused by livestock on landside slope.	
richard_f_20131112_210.jpg	



Levee Mile Report Line	20
Start Levee Mile	29.58
End Levee Mile	29.70
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at livestock erosion on landward slope.	
richard_f_20131127_298.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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	11/20/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	29.58
End Levee Mile	29.70
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking south at livestock erosion on landward slope.	
richard_f_20131127_299.JPG	



Levee Mile Report Line	24
Start Levee Mile	34.50
End Levee Mile	34.50
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking west at unauthorized ramp on waterward slope.	
richard_f_20131127_300.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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 06 East Side Bypass			Left	36.38
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/06/2013		11/25/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
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.

Lower San Joaquin Levee District

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	1.90	1.90	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.259527 ° -120.803300 °	37.259527 ° -120.803300 °	125
								DWR ID: DWR_NA0010_06_s_2012_125		
2	2.25	2.25	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.256805 ° -120.798040 °	37.256805 ° -120.798040 °	17 Y
								DWR ID: DWR_NA0010_06_s_2013_17		
3	4.67	4.67	Earthen Levee	Animal Control	CR A/W	En	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several rodent holes on levee crown.	37.244012 ° -120.761372 °	37.244012 ° -120.761372 °	16
								DWR ID: DWR_NA0010_06_s_2012_16		
4	4.72	4.72	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent holes next to fence post on landward slope.	37.243540 ° -120.760782 °	37.243540 ° -120.760782 °	10 Y
								DWR ID: DWR_NA0010_06_s_2012_10		
5	5.83	5.83	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.238355 ° -120.742677 °	37.238355 ° -120.742677 °	9
								DWR ID: DWR_NA0010_06_s_2012_9		
6	6.12	6.12	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.235777 ° -120.738598 °	37.235777 ° -120.738598 °	22
								DWR ID: DWR_NA0010_06_s_2012_22		
7	6.15	6.15	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.235623 ° -120.738017 °	37.235623 ° -120.738017 °	21
								DWR ID: DWR_NA0010_06_s_2012_21		
8	7.17	7.17	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.226675 ° -120.724498 °	37.226675 ° -120.724498 °	7
								DWR ID: DWR_NA0010_06_s_2012_7		
9	9.81	11.03	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: Levee crown should be regraded due to excessive rutting.	37.200697 ° -120.692927 °	37.188106 ° -120.677684 °	6
								DWR ID: DWR_NA0010_06_s_2012_6		
10	13.56	14.45	Earthen Levee	Encroachments	WS	M En	FE : Fence Inspector Comments: Electric fence on waterward shoulder.	37.171643 ° -120.650367 °	37.167813 ° -120.636337 °	15 Y
								DWR ID: DWR_NA0010_06_s_2013_15		
11	14.91	17.23	Earthen Levee	Crown Surface / Depressions / Rutting	LS A/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.163025 ° -120.630648 °	37.141161 ° -120.599867 °	4
								DWR ID: DWR_NA0010_06_s_2012_4		
12	15.55	15.70	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.158920 ° -120.620232 °	37.157217 ° -120.618915 °	124
								DWR ID: DWR_NA0010_06_s_2012_124		
13	22.90	22.96	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.088663 ° -120.538193 °	37.087968 ° -120.537485 °	8
								DWR ID: DWR_NA0010_06_s_2012_8		

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 06 East Side Bypass				Left	36.38	11/25/2013 11/26/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
14	24.50	24.93	Earthen Levee	Slope Stability	LS	M _{Ma}	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landside erosion caused by livestock.	37.071198 ° -120.519220 °	° °	5 Y
DWR ID: DWR_NA0010_06_s_2012_5										
15	27.56	27.87	Earthen Levee	Slope Stability	LS	M _{Ma}	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landside erosion caused by livestock.	37.036955 ° -120.484395 °	37.032887 ° -120.481225 °	3 Y
DWR ID: DWR_NA0010_06_s_2012_3										
16	28.62	28.62	Earthen Levee	Animal Control	LS	M _{Ma}	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.030102 ° -120.469122 °	37.030102 ° -120.469122 °	19
DWR ID: DWR_NA0010_06_s_2012_19										
17	31.01	31.01	Earthen Levee	Animal Control	LS	M _{Ma}	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.017955 ° -120.435017 °	37.017955 ° -120.435017 °	2 Y
DWR ID: DWR_NA0010_06_s_2012_2										
18	32.99	32.99	Earthen Levee	Encroachments	WS	M _{En}	FE : Fence Inspector Comments: Landowner constructed a metal fence around slant pump without a permit. Check for permit.	36.995667 ° -120.412910 °	36.995667 ° -120.412910 °	123 Y
DWR ID: DWR_NA0010_06_s_2012_123										
19	35.27	36.16	Earthen Levee	Vegetation	LS A/W	M _{Ma}	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.974650 ° -120.383022 °	36.974430 ° -120.367090 °	1
DWR ID: DWR_NA0010_06_s_2012_1										

*** 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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/25/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	2.25
End Levee Mile	2.25
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking north at rodent hole on landward slope.

richard_f_20131112_221.JPG



Levee Mile Report Line	4
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical rodent holes on landward slope.

richard_f_20131112_218.JPG



Levee Mile Report Line	4
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at rodent hole along fence line on landward slope.

richard_f_20131112_219.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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N : Not Inspected/Rated
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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**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/25/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	13.56
End Levee Mile	14.45
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking north at electric fence on waterward shoulder.

richard_f_20131112_220.JPG



Levee Mile Report Line	10
Start Levee Mile	13.56
End Levee Mile	14.45
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking north at electric fence on waterward shoulder.

richard_f_20131127_301.JPG



Levee Mile Report Line	14
Start Levee Mile	24.50
End Levee Mile	24.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking north at livestock erosion on landside slope.

richard_f_20131112_216.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/25/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	24.50
End Levee Mile	24.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking north at livestock erosion on landward slope.

richard_f_20131112_217.JPG



Levee Mile Report Line	15
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking north at livestock erosion on landside shoulder and slope.

richard_f_20131112_213.jpg



Levee Mile Report Line	15
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at livestock erosion on landside shoulder and slope.

richard_f_20131112_214.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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N : Not Inspected/Rated
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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**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/25/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking north at livestock erosion on landward slope. (Spring 2013)

richard_f_20131112_215.JPG



Levee Mile Report Line	15
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at livestock erosion on landward slope. (Fall 2013)

richard_f_20131127_302.JPG



Levee Mile Report Line	17
Start Levee Mile	31.01
End Levee Mile	31.01
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical rodent hole on landside slope.

richard_f_20131112_211.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/25/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	31.01
End Levee Mile	31.01
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking west at rodent holes on landside slope and toe near fence line.

richard_f_20131112_212.jpg



Levee Mile Report Line	18
Start Levee Mile	32.99
End Levee Mile	32.99
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at new metal fence around slant pump on waterside slope.

richard_f_20131112_222.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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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**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 07 Bear Creek Bypass			Right	3.62
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/04/2013 - 06/04/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
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:

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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 2013

Lower San Joaquin Levee District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass							Right	3.62	11/20/2013 11/20/2013	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.11	2.57	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W Ma		C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.256091 ° -120.770417 °	37.255397 ° -120.735555 °	30 Y
DWR ID: DWR_NA0010_07_s_2012_30										
2	0.50	0.50	Earthen Levee	Animal Control	LS A/W Ma		A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.258722 ° -120.764867 °	37.258722 ° -120.764867 °	29 Y
DWR ID: DWR_NA0010_07_s_2012_29										
3	1.22	1.22	Earthen Levee	Animal Control	LS M Ma		A1 : Exterminate rodents and backfill and compact or grout burrows.	37.264387 ° -120.755805 °	37.264387 ° -120.755805 °	1 Y
DWR ID: DWR_NA0010_07_f_2012_1										
4	1.51	1.51	Earthen Levee	Animal Control	LS M Ma		A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion on landward slope has been repaired by district. Landward toe erosion not repaired.	37.263930 ° -120.750680 °	37.263930 ° -120.750680 °	3 Y
DWR ID: DWR_NA0010_07_s_2012_3										
5	1.71	1.72	Earthen Levee	Animal Control	LS M Ma		A1 : Exterminate rodents and backfill and compact or grout burrows.	37.262570 ° -120.747453 °	37.262467 ° -120.747180 °	5 Y
DWR ID: DWR_NA0010_07_s_2013_5										
6	1.86	1.86	Earthen Levee	Animal Control	CR A/W Ma		A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes on crown of levee and landside shoulder of levee.	37.261670 ° -120.745010 °	37.261670 ° -120.745010 °	31 Y
DWR ID: DWR_NA0010_07_s_2012_31										
7	2.77	2.77	Earthen Levee	Encroachments	WS C Ma		GA : Garbage Inspector Comments: Old fence poles and concrete on waterward shoulder and slope should be removed.	37.253718 ° -120.733290 °	37.253718 ° -120.733290 °	6 Y
DWR ID: DWR_NA0010_07_s_2013_6										

*** 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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	2.57
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking east at vegetation on levee crown.

richard_f_20131112_229.jpg



Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	2.57
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking east at un-regraded levee crown. (Fall 2012)

richard_f_20131112_230.JPG



Levee Mile Report Line	3
Start Levee Mile	1.22
End Levee Mile	1.22
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at east at active rodent holes on landside berm.

richard_f_20131112_223.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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	1.22
End Levee Mile	1.22
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking north at several rodent holes on landward slope.

richard_f_20131121_282.JPG



Levee Mile Report Line	4
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking northeast at landside slope damaged by livestock.

richard_f_20131112_224.jpg



Levee Mile Report Line	4
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking southeast at landside slope and toe damage by livestock.

richard_f_20131112_225.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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Looking southeast at damage on landward toe.(Spring 2013)	
richard_f_20131112_226.JPG	



Levee Mile Report Line	4
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Looking south at landward slope.	
richard_f_20131112_227.JPG	



Levee Mile Report Line	6
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Crown
Category	Earthen Levee
Item	Animal Control
Looking at rodent hole on levee crown.	
richard_f_20131112_231.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable
U : Unacceptable
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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Crown
Category	Earthen Levee
Item	Animal Control

Looking at rodent hole on levee crown.

richard_f_20131112_232.jpg



Levee Mile Report Line	6
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Crown
Category	Earthen Levee
Item	Animal Control

Looking north a repaired rodent hole on levee crown.

richard_f_20131121_283.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**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 08 Bear Creek Bypass			Left	3.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/04/2013 - 06/04/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking west at vegetation on levee crown.	
richard_f_20131112_237.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking east at vegetation on levee crown.	
richard_f_20131112_238.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking east at un-graded levee crown. (Fall 2012)	
richard_f_20131112_239.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking east at levee crown.

richard_f_20131112_240.JPG



Levee Mile Report Line	2
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at typical view of levee.

richard_f_20131121_287.JPG



Levee Mile Report Line	4
Start Levee Mile	1.38
End Levee Mile	1.38
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking west at rodent holes on landward slope.

richard_f_20131112_236.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	2.07
End Levee Mile	2.12
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical rodent hole along the section.

richard_f_20131112_234.jpg



Levee Mile Report Line	6
Start Levee Mile	2.07
End Levee Mile	2.12
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical rodent hole on landside slope near headwall.

richard_f_20131112_235.jpg



Levee Mile Report Line	6
Start Levee Mile	2.07
End Levee Mile	2.12
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking south at several rodent holes on landward slope.

richard_f_20131121_288.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

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 09 Owens Creek Bypass			Right	0.88
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/04/2013 - 06/04/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.88	11/20/2013 11/20/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.39	0.39	Earthen Levee	Vegetation	LS	A	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Typical view of landside and waterside slopes.	37.219954 ° -120.706606 °	37.219954 ° -120.706606 °	2 Y

DWR ID: DWR_NA0010_09_s_2012_2

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.88	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at levee crown.

richard_f_20131112_241.JPG



Levee Mile Report Line	1
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of levee.

richard_f_20131121_289.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**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 10 Owens Creek Bypass			Left	0.82
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/04/2013 - 06/04/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.82	11/20/2013 11/20/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.80	Earthen Levee	Vegetation	CR	A	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Typical view of landside and waterside slopes and levee crown.	37.217983 ° -120.711388 °	37.219322 ° -120.698155 °	2 Y

DWR ID: DWR_NA0010_10_s_2012_2

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.82	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.80
Location	Crown
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard_f_20131121_290.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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 11 Mariposa Bypass			Right	3.31
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/06/2013 - 06/06/2013		11/26/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	11/26/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.67	0.67	Earthen Levee	Repair Gates	WS	M	Inspector Comments: Bottom hinge broken on gate across levee crown.	37.202725 ° -120.743028 °	37.202725 ° -120.743028 °	2 Y
DWR ID: DWR_NA0010_11_f_2013_2										
2	1.77	1.77	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.202743 ° -120.723187 °	37.202743 ° -120.723187 °	1
DWR ID: DWR_NA0010_11_s_2012_1										

*** Location**

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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Water Side
Category	Earthen Levee
Item	Repair Gates
Looking at bottom hinge broken on gate across levee crown.	
richard_f_20131127_305.JPG	



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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 12 Mariposa Bypass			Left	3.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/06/2013 - 06/06/2013		11/26/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	11/26/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	Rating + + +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	2.43	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.	37.200929 ° -120.755187 °	37.200907 ° -120.711110 °	3 Y
DWR ID: DWR_NA0010_12_f_ 2012_3										
2	2.33	2.33	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.200907 ° -120.712978 °	37.200907 ° -120.712978 °	1
DWR ID: DWR_NA0010_12_s_ 2012_1										

*** Location**

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WS : Water Side
CR : Crown

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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.43
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking west at a properly maintained levee crown. (Fall 2013)	
richard_f_20131127_306.JPG	



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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 13 Ash Slough			Right	1.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 13 Ash Slough				Right	1.28	11/25/2013 11/25/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.28	Earthen Levee	Vegetation	LS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	°	°	1
					Ma			°	°	Y
DWR ID: DWR_NA0010_13_f_2013_1										
2	0.14	0.14	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.035697 °	37.035697 °	3
					Ma			-120.441197 °	-120.441197 °	
DWR ID: DWR_NA0010_13_s_2012_3										
3	0.30	1.25	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.037893 °	37.046269 °	2
					Ma			-120.440373 °	-120.428350 °	
DWR ID: DWR_NA0010_13_f_2012_2										

*** Location**

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WS : Water Side
CR : Crown

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U : Unacceptable
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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.28	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.28
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking east at a typical view of the levee.

richard_f_20131127_307.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.28
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at a typical view of the levee.

richard_f_20131127_308.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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 14 Ash Slough			Left	1.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	11/25/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	1.25	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W Ma	C1	Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.032379 ° -120.441265 °	37.045404 ° -120.427749 °	2
DWR ID: DWR_NA0010_14_f_2012_2										
2	0.08	0.08	Channels	Concrete Foundations	WS Ma	A	Inspector Comments: LMA repaired erosion site.	37.033473 ° -120.440802 °	37.033473 ° -120.440802 °	3 Y
DWR ID: DWR_NA0010_14_s_2012_3										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Channels
Item	Concrete Foundations

Looking south at erosion in channel near drop structure.

richard_f_20131112_243.JPG



Levee Mile Report Line	2
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Channels
Item	Concrete Foundations

Looking south at repaired erosion on downstream side of drop structure.

richard_f_20131127_309.JPG



Levee Mile Report Line	2
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Channels
Item	Concrete Foundations

Looking south at repaired erosion site on downstream side of structure.

richard_f_20131127_310.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**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 15 Berenda Slough			Right	2.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	11/25/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	1.99	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	36.996547 ° -120.410220 °	36.996587 ° -120.374503 °	11 Y

DWR ID: DWR_NA0010_15_s_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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.99
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking east at the properly maintained levee crown. (Fall 2013)	
richard_f_20131127_311.JPG	



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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 16 Berenda Slough			Left	1.98
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	11/25/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	Rating + + +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	1.42	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	36.995388 ° -120.408738 °	36.995447 ° -120.383467 °	14 Y
DWR ID: DWR_NA0010_16_s_2012_14										
2	1.77	1.77	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	36.995488 ° -120.377152 °	36.995488 ° -120.377152 °	3
DWR ID: DWR_NA0010_16_s_2012_3										

*** Location**

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WS : Water Side
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+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.42
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking west at the properly maintained levee crown.	
richard_f_20131127_312.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 17 Chowchilla Canal Bypass			Right	16.09
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 17 Chowchilla Canal Bypass				Right	16.09	11/25/2013 11/25/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	16.09	Earthen Levee	Vegetation	LS	A	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Typical view of levee slopes.	°	°	6
						Ma		°	°	Y
DWR ID: DWR_NA0010_17_f_2013_6										
2	0.00	5.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR	A/W	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	36.976430 °	36.908282 °	7
						Ma		-120.374748 °	-120.330995 °	Y
DWR ID: DWR_NA0010_17_s_2012_7										
3	4.69	4.69	Earthen Levee	Encroachments	CR	C	PI : Pipe Inspector Comments: Farmer installed 10" steel irrigation pipe across levee crown.	36.923368 °	36.923368 °	1
						Ma		-120.336500 °	-120.336500 °	
DWR ID: DWR_NA0010_17_s_2012_1										
4	5.75	5.90	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	36.908605 °	36.906507 °	8
						Ma		-120.331112 °	-120.330353 °	Y
DWR ID: DWR_NA0010_17_s_2012_8										
5	6.51	6.60	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	36.898124 °	36.896943 °	4
						Ma		-120.326714 °	-120.326133 °	
DWR ID: DWR_NA0010_17_s_2012_4										
6	7.27	7.39	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.887869 °	36.886341 °	5
						Ma		-120.321697 °	-120.320940 °	
DWR ID: DWR_NA0010_17_s_2012_5										

*** Location**

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+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	16.09
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at a typical view of the levee.

richard_f_20131127_313.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	5.77
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at vegetation properly maintained on the levee crown.

richard_f_20131127_314.JPG



Levee Mile Report Line	4
Start Levee Mile	5.75
End Levee Mile	5.90
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at several rodent holes on landside slope.

richard_f_20131112_249.jpg



*** Location**

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WS : Water Side
CR : Crown

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+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 18 Chowchilla Canal Bypass			Left	15.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.33	11/25/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	11.86	13.15	Earthen Levee	Vegetation	LS A/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense tumble weed on landside and waterside shoulder and slope.	36.815400 ° -120.305080 °	36.797353 ° -120.308560 °	1 Y
DWR ID: DWR_NA0010_18_s_2012_1										
2	13.55	15.12	Earthen Levee	Crown Surface / Depressions / Rutting	LS A/W	Ma	C2 : Repair depressions or ruts in the crown or slope.	36.792861 ° -120.304907 °	36.776058 ° -120.287111 °	3
DWR ID: DWR_NA0010_18_f_2012_3										

*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.33	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	11.86
End Levee Mile	13.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at controlled tumble weeds on landward and waterward slope. (Fall 2013)

richard_f_20131127_315.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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 22A East Side Canal			Left	5.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/04/2013 - 06/04/2013		11/20/2013 - 11/20/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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Lower San Joaquin Levee District

DWR ID: DWR_NA0010_22A s. 2012.5Page 1 of 7

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	11/20/2013 11/20/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
12	5.15	5.20	Earthen Levee	Animal Control	WS	M	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion caused by livestock on waterside toe.	37.268492 ° -120.737493 °	37.269133 ° -120.738208 °	6 Y

DWR ID: DWR_NA0010_22A_s_2012_6

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at erosion on waterside toe near screw gate.

richard_f_20131112_257.jpg



Levee Mile Report Line	1
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at erosion near screw gate. (Fall 2012)

richard_f_20131112_258.JPG



Levee Mile Report Line	1
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at repaired erosion near screw gate on waterward slope.

richard_f_20131112_259.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	2.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking northeast at erosion caused by animals on waterside slope.

richard_f_20131112_251.jpg



Levee Mile Report Line	3
Start Levee Mile	2.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking south at erosion caused by animals on waterside slope.

richard_f_20131112_252.jpg



Levee Mile Report Line	6
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking east at dilapidated bridge across canal.

richard_f_20131112_253.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking northeast at dilapidated bridge across canal.

richard_f_20131112_254.jpg



Levee Mile Report Line	7
Start Levee Mile	4.80
End Levee Mile	4.86
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking north at waterside erosion from livestock.

richard_f_20131112_255.jpg



Levee Mile Report Line	9
Start Levee Mile	5.02
End Levee Mile	5.05
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south livestock erosion on waterward toe.

richard_f_20131121_285.JPG



*** Location**

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WS : Water Side
CR : Crown

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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**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	5.02
End Levee Mile	5.05
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southeast at livestock erosion on waterward toe.

richard_f_20131121_286.JPG



Levee Mile Report Line	10
Start Levee Mile	5.07
End Levee Mile	5.10
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at rutting on levee crown.

richard_f_20131112_260.jpg



Levee Mile Report Line	12
Start Levee Mile	5.15
End Levee Mile	5.20
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking north at livestock erosion along waterside slope and toe.

richard_f_20131112_256.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	11/20/2013 11/20/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	5.15
End Levee Mile	5.20
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking south at livestock erosion on waterward toe.

richard_f_20131121_284.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 23 San Joaquin River			Right	10.25
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	1.16	1.28	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.772832 ° -120.265742 °	36.773123 ° -120.263603 °	1 Y
DWR ID: DWR_NA0010_23_s_2012_1									
2	1.21	1.21	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	36.772973 ° -120.264768 °	36.772973 ° -120.264768 °	6 Y
DWR ID: DWR_NA0010_23_s_2013_6									
3	1.53	1.53	Earthen Levee	Slope Stability	LS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	36.772035 ° -120.259560 °	36.772035 ° -120.259560 °	14 Y
DWR ID: DWR_NA0010_23_f_2012_14									
4	1.56	1.75	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.771778 ° -120.259143 °	36.771625 ° -120.255817 °	2 Y
DWR ID: DWR_NA0010_23_s_2012_2									
5	2.13	2.42	Earthen Levee	Slope Stability	WS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Several damaged sites within this reach.	36.775507 ° -120.251672 °	36.774423 ° -120.246993 °	16 Y
DWR ID: DWR_NA0010_23_s_2013_16									
6	2.85	2.85	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	36.771537 ° -120.240917 °	36.771537 ° -120.240917 °	15 Y
DWR ID: DWR_NA0010_23_s_2012_15									
7	3.30	3.30	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	36.774403 ° -120.234705 °	36.774403 ° -120.234705 °	3 Y
DWR ID: DWR_NA0010_23_s_2012_3									
8	3.45	3.45	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	36.776537 ° -120.234573 °	36.776537 ° -120.234573 °	9 Y
DWR ID: DWR_NA0010_23_s_2012_9									
9	4.14	4.14	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	36.784212 ° -120.228815 °	36.784212 ° -120.228815 °	10 Y
DWR ID: DWR_NA0010_23_s_2012_10									
10	4.46	4.46	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	36.784523 ° -120.223292 °	36.784523 ° -120.223292 °	11 Y
DWR ID: DWR_NA0010_23_s_2012_11									
11	5.23	5.23	Earthen Levee	Encroachments	WSA/W Ma	MA : Material Inspector Comments: Sand pile in levee channel over three feet high. Pile is too close to levee.	36.791400 ° -120.214222 °	36.791400 ° -120.214222 °	7 Y
DWR ID: DWR_NA0010_23_s_2012_7									
12	5.69	5.90	Earthen Levee	Animal Control	WS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several large rodent holes in this area.	36.792012 ° -120.206270 °	36.790972 ° -120.202588 °	5 Y
DWR ID: DWR_NA0010_23_s_2012_5									
13	7.84	8.08	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.785663 ° -120.182890 °	36.789127 ° -120.182298 °	13 Y
DWR ID: DWR_NA0010_23_s_2012_13									
14	7.84	8.08	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.785672 ° -120.182873 °	36.789130 ° -120.182297 °	12 Y
DWR ID: DWR_NA0010_23_s_2012_12									

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

15	8.48	8.48	Earthen Levee	Slope Stability	WS Ma	M	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Waterward slope has been damaged due to vehicle traffic.	36.793717 ° -120.178997 °	36.793717 ° -120.178997 °	17 Y
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DWR ID: DWR_NA0010_23_s_2013_17

16	9.10	9.21	Supplemental	DWR Erosion Survey	WS Ma	C	Inspector Comments: 07/11/2013: No significant change observed. Dense vegetation and small trees cover the entire site. 07/24/2012: Site has been repaired with riprap rocks and broken concrete blocks, but loose material and cracking are visible at the top of the repaired site. The site needs close monitoring for performance evaluation. 08/16/2011: This site is immediately downstream of the riparian protection section. Dense vegetation growing on the toe and slope of the bank seems to indicate the most part of the erosion occurred prior to last winter. The closest spot is 12 feet away from the levee toe. [2013 Site ID:NA0010U23RM224.27]	36.802116 ° -120.173847 °	36.802116 ° -120.173847 °	4
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DWR ID:

17	9.21	9.26	Supplemental	DWR Erosion Survey	WS Ma	C	Inspector Comments: 07/11/2013: No significant change observed. Cracking on the repaired site is still visible. Wooden debris is present in the river near the site. 07/24/2012: The site has been repaired with clay material, riprap rocks, and broken concrete blocks, but the loose material and large cracking at the repaired site are visible. Need monitoring for the performance during the coming high flow events. 08/16/2011: The erosion is cutting into the levee. The site is located at the outside of a river bend, and the erosions were caused by river flows during the last flooding season. The ground was covered by dense grasses. Animal burrow holes are visible. [2013 Site ID:NA0010U23RM224.33]	36.802898 ° -120.173278 °	36.802898 ° -120.173278 °	8
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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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	1.53
End Levee Mile	1.53
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking north at slope damaged by vehicle traffic.

richard_f_20131112_270.JPG



Levee Mile Report Line	3
Start Levee Mile	1.53
End Levee Mile	1.53
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at slope damaged by vehicle traffic. (Fall 2013)

richard_f_20131127_316.JPG



Levee Mile Report Line	4
Start Levee Mile	1.56
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense vegetation on landside slope.

richard_f_20131112_261.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
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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**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	1.56
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of landward slope.

richard_f_20131112_262.JPG



Levee Mile Report Line	5
Start Levee Mile	2.13
End Levee Mile	2.42
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking south at waterward slope damaged by vehicle traffic

richard_f_20131112_272.JPG



Levee Mile Report Line	6
Start Levee Mile	2.85
End Levee Mile	2.85
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside toe and berm.

richard_f_20131112_271.jpg



*** Location**

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+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside toe and berm.

richard_f_20131112_263.jpg



Levee Mile Report Line	7
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry bush on landward toe. (Fall 2013)

richard_f_20131127_317.JPG



Levee Mile Report Line	8
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside toe and berm.

richard_f_20131112_267.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	4.14
End Levee Mile	4.14
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberry on landside toe and berm.	
richard_f_20131112_268.jpg	



Levee Mile Report Line	9
Start Levee Mile	4.14
End Levee Mile	4.14
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberry bush on landward toe. (Fall 2013)	
richard_f_20131127_318.JPG	



Levee Mile Report Line	10
Start Levee Mile	4.46
End Levee Mile	4.46
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberry on landside toe and berm.	
richard_f_20131112_269.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
N : Not Inspected/Rated
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at sand pile 20-30 feet away from waterside slope.

richard_f_20131112_265.jpg



Levee Mile Report Line	11
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at de-graded sandpile in channel.

richard_f_20131112_266.JPG



Levee Mile Report Line	12
Start Levee Mile	5.69
End Levee Mile	5.90
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking at several rodent holes on landside slope.

richard_f_20131112_264.jpg



*** Location**

LS : Land Side
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CR : Crown

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N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	8.48
End Levee Mile	8.48
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking southwest at waterward slope damaged due to vehicle traffic.

richard_f_20131112_273.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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 24 San Joaquin River			Left	8.34
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/05/2013 - 06/05/2013		11/25/2013 - 11/25/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
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 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River				Left	8.34	11/25/2013 11/25/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	8.34	Earthen Levee	Vegetation	LS	A En	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.766028 ° -120.279443 °	36.771655 ° -120.264455 °	4 Y
DWR ID: DWR_NA0010_24_s_2012_4										
2	0.82	0.82	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	36.766775 ° -120.278757 °	36.766775 ° -120.278757 °	6 Y
DWR ID: DWR_NA0010_24_s_2013_6										
3	3.46	3.46	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: One of several rodent holes on landward slope.	36.769345 ° -120.238370 °	36.769345 ° -120.238370 °	7 Y
DWR ID: DWR_NA0010_24_s_2012_7										
4	5.39	6.46	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.782337 ° -120.222930 °	36.789063 ° -120.207438 °	2
DWR ID: DWR_NA0010_24_s_2012_2										
5	6.33	6.33	Earthen Levee	Encroachments	WSA/W	En	PR : Prunings Inspector Comments: Pruning pile in channel.	36.788155 ° -120.209655 °	36.788155 ° -120.209655 °	3 Y
DWR ID: DWR_NA0010_24_s_2012_3										

*** Location**

LS : Land Side
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CR : Crown

**** Rating**

A : Acceptable
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N : Not Inspected/Rated
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.34	11/25/2013 11/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	8.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of levee.

richard_f_20131127_319.JPG



Levee Mile Report Line	3
Start Levee Mile	3.46
End Levee Mile	3.46
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking east at one of several rodent holes on landward slope.

richard_f_20131112_275.JPG



Levee Mile Report Line	5
Start Levee Mile	6.33
End Levee Mile	6.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking north at prunings on waterside berm.

richard_f_20131112_274.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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 25 Salt Slough			Right	2.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	06/07/2013 - 06/07/2013		11/26/2013 - 11/26/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
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).

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- 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.

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<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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.47	11/26/2013 11/26/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	2.47	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control weeds on levee crown.	37.296117 ° -120.880724 °	37.271193 ° -120.866633 °	8 Y
DWR ID: DWR_NA0010_25_s_2012_8										
2	0.00	2.47	Earthen Levee	Vegetation	LS	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.296042 ° -120.880736 °	37.271179 ° -120.866613 °	1 Y
DWR ID: DWR_NA0010_25_f_2012_1										

*** 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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.47	11/26/2013 11/26/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at typical view of levee crown.

richard_f_20131127_321.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at typical view of levee.

richard_f_20131127_320.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