

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2012 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)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/23/2012 - 4/26/2012			
DWR Inspector	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 - Spring 2012**

**Lower San Joaquin Levee District**

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Right	22.56	04/23/2012 04/26/2012	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		°	°	119
DWR ID: DWR_NA0010_01_s_2012_119										
2	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	120
DWR ID: DWR_NA0010_01_s_2012_120										
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	121
DWR ID: DWR_NA0010_01_s_2012_121										
4	0.01	22.55	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.348652 ° -120.958735 °	37.166795 ° -120.749532 °	113
DWR ID: DWR_NA0010_01_s_2012_113										
5	0.01	22.55	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.348650 ° -120.958737 °	37.166793 ° -120.749530 °	112 Y
DWR ID: DWR_NA0010_01_s_2012_112										
6	0.03	0.07	Earthen Levee	Animal Control	LS	M 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_114										
7	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										
8	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										
9	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										
10	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										
11	0.66	2.52	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.340858 ° -120.961470 °	37.328637 ° -120.934398 °	9
DWR ID: DWR_NA0010_01_s_2012_9										
12	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										
13	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										
14	3.96	3.96	Earthen Levee	Repair Gates	CR	M Ma	Inspector Comments: Gate is bent and out of alignment and can not be locked. Repair or replace gate.	37.311127 ° -120.926905 °	37.311127 ° -120.926905 °	115 Y
DWR ID: DWR_NA0010_01_s_2012_115										

**\* 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 - Spring 2012**

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	22.56	04/23/2012 04/26/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
15	4.00	4.08	Earthen Levee	Encroachments	LS	M <sub>En</sub>	AD : Agricultural 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										
16	4.20	4.20	Earthen Levee	Animal Control	LS	M <sub>Ma</sub>	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.308540 ° -120.924003 °	37.308540 ° -120.924003 °	6 Y
DWR ID: DWR_NA0010_01_s_2012_6										
17	4.45	4.71	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.306242 ° -120.920797 °	37.302563 ° -120.920903 °	11 Y
DWR ID: DWR_NA0010_01_s_2012_11										
18	5.75	5.75	Earthen Levee	Animal Control	LS	U <sub>Ma</sub>	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										
19	6.04	6.64	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.303715 ° -120.902115 °	37.303838 ° -120.891912 °	13 Y
DWR ID: DWR_NA0010_01_s_2012_13										
20	6.04	6.64	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.303717 ° -120.902108 °	37.303837 ° -120.891907 °	12 Y
DWR ID: DWR_NA0010_01_s_2012_12										
21	7.41	7.81	Earthen Levee	Vegetation	WSA/W	M <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.299855 ° -120.879455 °	37.298730 ° -120.872387 °	14 Y
DWR ID: DWR_NA0010_01_s_2012_14										
22	8.53	9.04	Earthen Levee	Vegetation	LS A/W	M <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.296267 ° -120.860195 °	37.297492 ° -120.851050 °	16 Y
DWR ID: DWR_NA0010_01_s_2012_16										
23	8.53	9.04	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.296262 ° -120.860183 °	37.297492 ° -120.851052 °	15 Y
DWR ID: DWR_NA0010_01_s_2012_15										
24	9.21	9.83	Earthen Levee	Crown Surface / Depressions / Rutting	WS	M <sub>Ma</sub>	C1 : Keep the crown roadway free of vegetation.	37.296145 ° -120.848588 °	37.293077 ° -120.839170 °	117 Y
DWR ID: DWR_NA0010_01_s_2012_117										
25	17.45	17.45	Earthen Levee	Animal Control	LS	M <sub>Ma</sub>	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 Y
DWR ID: DWR_NA0010_01_s_2012_118										
26	19.33	19.33	Earthen Levee	Encroachments	CR	M <sub>Ma</sub>	PI : Pipe Inspector Comments: Farmer installed a pipe across levee crown and 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										
27	22.09	22.56	Earthen Levee	Encroachments	LS	M <sub>En</sub>	AD : Agricultural Ditch	37.169962 ° -120.754240 °	37.166983 ° -120.750127 °	22 Y
DWR ID: DWR_NA0010_01_s_2012_22										

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**+ Issue Type**

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En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	04/23/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.01
End Levee Mile	22.55
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard\_s\_20120430\_279.jpg



Levee Mile Report Line	6
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\_s\_20120430\_278.jpg



Levee Mile Report Line	14
Start Levee Mile	3.96
End Levee Mile	3.96
Location	Crown
Category	Earthen Levee
Item	Repair Gates

Looking southwest at damaged gate.

richard\_s\_20120430\_280.jpg



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

## Levee Inspection Report By Mile - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	04/23/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	3.96
End Levee Mile	3.96
Location	Crown
Category	Earthen Levee
Item	Repair Gates

Looking west at damaged gate near Hwy 140.

richard\_s\_20120430\_281.jpg



Levee Mile Report Line	15
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\_s\_20120430\_282.jpg



Levee Mile Report Line	15
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\_s\_20120430\_283.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	04/23/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	18
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\_s\_20120430\_284.jpg



Levee Mile Report Line	18
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\_s\_20120430\_285.jpg



Levee Mile Report Line	24
Start Levee Mile	9.21
End Levee Mile	9.83
Location	Land Side
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at typical view of vegetation on levee crown.

richard\_s\_20120430\_286.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	04/23/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	26
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\_s\_20120507\_360.jpg



Levee Mile Report Line	27
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\_s\_20120507\_361.jpg



Levee Mile Report Line	27
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\_s\_20120507\_362.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/27/2012 - 4/27/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02A San Joaquin River				Left	7.87	04/27/2012 04/27/2012	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	1.70	Earthen Levee	Crown Surface / Depressions / Rutting	LS	M Ma	C1 : Keep the crown roadway free of vegetation.	37.296122 ° -120.880723 °	37.289429 ° -120.861115 °	3 Y
DWR ID: DWR_NA0010_02A_s_2012_3										
2	0.00	7.87	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.296117 ° -120.880724 °	37.231389 ° -120.811970 °	34 Y
DWR ID: DWR_NA0010_02A_s_2012_34										
3	0.00	7.87	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.296117 ° -120.880724 °	37.231390 ° -120.811970 °	35 Y
DWR ID: DWR_NA0010_02A_s_2012_35										
4	0.77	0.77	Earthen Levee	Erosion / Bank Caving	WS	U Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: A field investigation report in on file. For more information and pictures see field investigation report #4301.	37.286877 ° -120.874222 °	37.286877 ° -120.874222 °	5 Y
DWR ID: DWR_NA0010_02A_s_2012_5										
5	2.30	2.30	Earthen Levee	Repair Gates	CR	C Ma	Inspector Comments: Gate has been repaired. Great Job!	37.291678 ° -120.851438 °	37.291678 ° -120.851438 °	4 Y
DWR ID: DWR_NA0010_02A_s_2012_4										
6	2.33	2.33	Earthen Levee	Encroachments	LS	M En	RA : Ramp Inspector Comments: Unauthorized ramp on landside and waterside slope.	37.291433 ° -120.850917 °	37.291433 ° -120.850917 °	2 Y
DWR ID: DWR_NA0010_02A_s_2012_2										
7	7.76	7.76	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.232718 ° -120.813565 °	37.232718 ° -120.813565 °	36 Y
DWR ID: DWR_NA0010_02A_s_2012_36										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/27/2012 04/27/2012	Richard Willoughby

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

Looking north at vegetation on levee crown.

richard\_s\_20120507\_371.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\_s\_20120507\_369.jpg



Levee Mile Report Line	4
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\_s\_20120507\_372.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/27/2012 04/27/2012	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\_s\_20120507\_367.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\_s\_20120507\_368.jpg



Levee Mile Report Line	7
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\_s\_20120507\_366.jpg



**\* Location**

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WS : Water Side  
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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/27/2012 - 4/27/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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## Lower San Joaquin Levee District

DWR ID: DWR NA0010 02B s 2012 4Page 1 of 2

**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/27/2012 04/27/2012	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\_s\_20120507\_363.jpg



Levee Mile Report Line	2
Start Levee Mile	7.87
End Levee Mile	13.78
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard\_s\_20120507\_365.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\_s\_20120507\_364.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  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/26/2012 - 4/26/2012			
DWR Inspector	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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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.16	04/26/2012 04/26/2012	Richard Willoughby

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

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.16	04/26/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	2.16
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking downstream at typical view of levee.

richard\_s\_20120507\_350.jpg



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	2.16
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking upstream at typical view of levee.

richard\_s\_20120507\_349.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/26/2012 - 4/26/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River						Left	1.58	04/26/2012 04/26/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.18	1.58	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.110563 ° -120.591073 °	37.095302 ° -120.577955 °	1 Y
DWR ID: DWR_NA0010_04_s_2012_1										
2	0.18	1.58	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.110565 ° -120.591073 °	37.095302 ° -120.577958 °	2 Y
DWR ID: DWR_NA0010_04_s_2012_2										
3	0.32	1.49	Earthen Levee	Encroachments	CR	M En	AD : Agricultural 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**

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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.58	04/26/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.18
End Levee Mile	1.58
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard\_s\_20120507\_355.jpg



Levee Mile Report Line	3
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\_s\_20120507\_353.jpg



Levee Mile Report Line	3
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\_s\_20120507\_354.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/23/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass				Right	34.75	04/23/2012 04/25/2012	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	34.51	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.278883 ° -120.824165 °	36.978563 ° -120.368393 °	168
DWR ID: DWR_NA0010_05_s_2012_168										
2	0.01	34.51	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.278882 ° -120.824163 °	36.978563 ° -120.368395 °	167
DWR ID: DWR_NA0010_05_s_2012_167										
3	0.81	2.07	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Keep the crown roadway free of vegetation.	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 A/W	M Ma	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	3.32	3.32	Earthen Levee	Trim / Thin Trees	LS A/W	M Ma	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										
6	3.54	3.54	Earthen Levee	Encroachments	LS	M Ma	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										
7	4.50	5.61	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Keep the crown roadway free of vegetation.	37.243842 ° -120.757263 °	37.238453 ° -120.739068 °	170 Y
DWR ID: DWR_NA0010_05_s_2012_170										
8	6.50	6.50	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.230497 ° -120.727263 °	37.230497 ° -120.727263 °	15
DWR ID: DWR_NA0010_05_s_2012_15										
9	6.58	6.58	Earthen Levee	Repair Gates	CR	C Ma	Inspector Comments: Great Job!	37.229807 ° -120.726538 °	37.229807 ° -120.726538 °	17
DWR ID: DWR_NA0010_05_s_2012_17										
10	6.58	6.58	Earthen Levee	Animal Control	LS	C Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Great Job!	37.229733 ° -120.726450 °	37.229733 ° -120.726450 °	7
DWR ID: DWR_NA0010_05_s_2012_7										
11	6.58	8.09	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact.	37.229733 ° -120.726450 °	37.213520 ° -120.706475 °	6
DWR ID: DWR_NA0010_05_s_2012_6										
12	8.06	8.06	Earthen Levee	Animal Control	LS	M Ma	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										
13	8.83	8.83	Earthen Levee	Animal Control	WS	M Ma	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										
14	11.48	11.48	Earthen Levee	Encroachments	LS	M Ma	GA : Garbage Inspector Comments: Sofa and chair on landside slope.	37.186510 ° -120.657923 °	37.186510 ° -120.657923 °	8 Y
DWR ID: DWR_NA0010_05_s_2012_8										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 05 East Side Bypass					Right	34.75	04/23/2012 04/25/2012		Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
15	11.49	11.49	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	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										
16	25.49	25.54	Earthen Levee	Animal Control	LS	A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.047630 ° -120.488530 °	37.047042 ° -120.488092 °	9
DWR ID: DWR_NA0010_05_s_2012_9										
17	29.58	29.70	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site. Inspector Comments: Waterside erosion caused by livestock.	37.020272 ° -120.433737 °	37.018712 ° -120.432682 °	171 Y
DWR ID: DWR_NA0010_05_s_2012_171										
18	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										
19	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
DWR ID: DWR_NA0010_05_s_2012_11										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	04/23/2012 04/25/2012	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\_s\_20120313\_068.jpg



Levee Mile Report Line	6
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\_s\_20120430\_287.jpg



Levee Mile Report Line	7
Start Levee Mile	4.50
End Levee Mile	5.61
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at vegetation on levee crown.

richard\_s\_20120430\_305.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	04/23/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	11.48
End Levee Mile	11.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at garbage on landside slope.(Spring 2012)

richard\_s\_20120501\_313.jpg



Levee Mile Report Line	17
Start Levee Mile	29.58
End Levee Mile	29.70
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at erosion caused by livestock on landside slope.

richard\_s\_20120501\_318.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/26/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass				Left	36.38	04/25/2012 04/26/2012	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	36.38	Earthen Levee	Vegetation	LS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.275030 ° -120.825915 °	36.974180 ° -120.363332 °	121
DWR ID: DWR_NA0010_06_s_2012_121									
2	0.00	36.38	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	37.275012 ° -120.825905 °	36.974190 ° -120.363322 °	122
DWR ID: DWR_NA0010_06_s_2012_122									
3	1.90	1.90	Earthen Levee	Animal Control	LS 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									
4	4.67	4.67	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: Several rodent holes on levee crown.	37.244012 ° -120.761372 °	37.244012 ° -120.761372 °	16
DWR ID: DWR_NA0010_06_s_2012_16									
5	4.72	4.72	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent holes next to gate post on waterside shoulder.	37.243540 ° -120.760782 °	37.243540 ° -120.760782 °	10
DWR ID: DWR_NA0010_06_s_2012_10									
6	5.83	5.83	Earthen Levee	Animal Control	LS 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									
7	6.12	6.12	Earthen Levee	Animal Control	LS 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									
8	6.15	6.15	Earthen Levee	Animal Control	WS 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									
9	7.17	7.17	Earthen Levee	Animal Control	LS 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									
10	9.81	10.82	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W Ma	C2 : Regrade the crown roadway for proper drainage. Inspector Comments: Levee crown should be regraded due to excessive wash board.	37.200697 ° -120.692927 °	37.190315 ° -120.680265 °	6
DWR ID: DWR_NA0010_06_s_2012_6									
11	14.91	17.23	Earthen Levee	Crown Surface / Depressions / Rutting	LS A/W Ma	C1 : Keep the crown roadway free of vegetation.	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 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 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									

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 06 East Side Bypass				Left	36.38	04/25/2012 04/26/2012	Richard Willoughby	

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
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 Y
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 : Fences Inspector Comments: Landowner constructed a metal fence around slant pump without a 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 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**

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**+ Issue Type**

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

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	04/25/2012 04/26/2012	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 landside slope.

richard\_s\_20120507\_348.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\_s\_20120507\_346.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\_s\_20120507\_347.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	04/25/2012 04/26/2012	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 at typical rodent hole on landside slope.

richard\_s\_20120507\_344.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 west at rodent holes on landside slope and toe near fence line.

richard\_s\_20120507\_345.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\_s\_20120507\_343.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/23/2012 - 4/23/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass						Right	3.62	04/23/2012 04/23/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.22	3.61	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.256765 ° -120.768730 °	37.254778 ° -120.719752 °	28 Y
DWR ID: DWR_NA0010_07_s_2012_28										
2	0.22	3.61	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.256765 ° -120.768722 °	37.254783 ° -120.719740 °	27 Y
DWR ID: DWR_NA0010_07_s_2012_27										
3	0.50	0.50	Earthen Levee	Animal Control	LS	M 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										
4	1.50	2.57	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Keep the crown roadway free of vegetation.	37.263970 ° -120.750748 °	37.255397 ° -120.735555 °	30 Y
DWR ID: DWR_NA0010_07_s_2012_30										
5	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: Landside erosion cause by livestock.	37.263930 ° -120.750680 °	37.263930 ° -120.750680 °	3 Y
DWR ID: DWR_NA0010_07_s_2012_3										
6	1.86	1.86	Earthen Levee	Animal Control	CR	M 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										

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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/23/2012 04/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.22
End Levee Mile	3.61
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at typical view of levee.

richard\_s\_20120430\_289.jpg



Levee Mile Report Line	2
Start Levee Mile	0.22
End Levee Mile	3.61
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of levee.

richard\_s\_20120430\_288.jpg



Levee Mile Report Line	4
Start Levee Mile	1.50
End Levee Mile	2.57
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking east at vegetation on levee crown.

richard\_s\_20120430\_293.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/23/2012 04/23/2012	Richard Willoughby

Levee Mile Report Line	5
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\_s\_20120430\_290.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\_s\_20120430\_291.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\_s\_20120430\_292.jpg



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

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 08 Bear Creek Bypass						Left	3.63	04/24/2012 04/24/2012	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	2.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	C1 : Keep the crown roadway free of vegetation.	37.253178 ° -120.768513 °	37.256802 ° -120.740452 °	28	Y
DWR ID: DWR_NA0010_08_s_2012_28										
2	0.00	3.63	Earthen Levee	Vegetation	LS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.253172 ° -120.768520 °	37.254027 ° -120.718727 °	26	
DWR ID: DWR_NA0010_08_s_2012_26										
3	0.00	3.63	Earthen Levee	Vegetation	WS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.253178 ° -120.768515 °	37.254025 ° -120.718725 °	27	
DWR ID: DWR_NA0010_08_s_2012_27										
4	1.19	1.19	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.263182 ° -120.755650 °	37.263182 ° -120.755650 °	2	
DWR ID: DWR_NA0010_08_s_2012_2										
5	1.61	1.61	Earthen Levee	Animal Control	WS Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.261842 ° -120.748510 °	37.261842 ° -120.748510 °	1	
DWR ID: DWR_NA0010_08_s_2012_1										
6	2.07	2.12	Earthen Levee	Animal Control	LS Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes was noted on landside slope near drainage pipe.	37.258063 ° -120.742460 °	37.257688 ° -120.741573 °	7	Y
DWR ID: DWR_NA0010_08_s_2012_7										
7	3.40	3.54	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.253052 ° -120.722647 °	37.253600 ° -120.720198 °	3	
DWR ID: DWR_NA0010_08_s_2012_3										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/24/2012 04/24/2012	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_s_20120430_303.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_s_20120430_304.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 along the section.	
richard_s_20120430_301.jpg	



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

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/24/2012 04/24/2012	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 on landside slope near headwall.

richard\_s\_20120430\_302.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**

**Spring 2012 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)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass						Right	0.88	04/24/2012 04/24/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	0.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M <sub>Ma</sub>	C3 : Add appropriate gravel or road base. Grade and compact.	37.220193 ° -120.712993 °	37.219950 ° -120.706498 °	2
DWR ID: DWR_NA0010_09_s_2012_2										
2	0.39	0.87	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.219938 ° -120.706532 °	37.220032 ° -120.698282 °	11 Y
DWR ID: DWR_NA0010_09_s_2012_11										
3	0.39	0.87	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.219938 ° -120.706530 °	37.220032 ° -120.698283 °	10 Y
DWR ID: DWR_NA0010_09_s_2012_10										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.88	04/24/2012 04/24/2012	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.39
End Levee Mile	0.87
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at a typical view of levee.

richard\_s\_20120430\_309.jpg



Levee Mile Report Line	3
Start Levee Mile	0.39
End Levee Mile	0.87
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking east at a typical view of levee.

richard\_s\_20120430\_308.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass						Left	0.82	04/24/2012 04/24/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	0.80	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M <sub>Ma</sub>	C3 : Add appropriate gravel or road base. Grade and compact.	37.217983 ° -120.711388 °	37.219322 ° -120.698155 °	2
DWR ID: DWR_NA0010_10_s_2012_2										
2	0.00	0.81	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.217945 ° -120.711447 °	37.219328 ° -120.698117 °	6 Y
DWR ID: DWR_NA0010_10_s_2012_6										
3	0.00	0.81	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.217938 ° -120.711437 °	37.219328 ° -120.698115 °	7 Y
DWR ID: DWR_NA0010_10_s_2012_7										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.82	04/24/2012 04/24/2012	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.81
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of levee.

richard\_s\_20120430\_311.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.81
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at typical view of levee.

richard\_s\_20120430\_312.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/26/2012 - 4/26/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/26/2012 04/26/2012	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	3.30	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.202737 ° -120.755193 °	37.202293 ° -120.695320 °	19 Y
DWR ID: DWR_NA0010_11_s_2012_19										
2	0.00	3.30	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.202737 ° -120.755192 °	37.202293 ° -120.695313 °	18 Y
DWR ID: DWR_NA0010_11_s_2012_18										
3	1.77	1.77	Earthen Levee	Animal Control	LS	M <sub>Ma</sub>	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										
4	3.30	3.30	Earthen Levee	Animal Control	LS	M <sub>Ma</sub>	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Vegetation complies with O & M standards.	37.202312 ° -120.695318 °	37.202312 ° -120.695318 °	2
DWR ID: DWR_NA0010_11_s_2012_2										

**\* Location**

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**+ Issue Type**

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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/26/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.30
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking downstream at a typical view of levee.

richard\_s\_20120507\_357.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking upstream at a typical view of levee.

richard\_s\_20120507\_356.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**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/26/2012 - 4/26/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass						Left	3.33	04/26/2012 04/26/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	3.33	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.200933 ° -120.755155 °	37.200950 ° -120.694820 °	2 Y
DWR ID: DWR_NA0010_12_s_2012_2										
2	0.00	3.33	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.200933 ° -120.755148 °	37.200952 ° -120.694818 °	3 Y
DWR ID: DWR_NA0010_12_s_2012_3										
3	2.33	2.33	Earthen Levee	Animal Control	LS	M <sub>Ma</sub>	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										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/26/2012 04/26/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.33
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream at a typical view of levee.

richard\_s\_20120507\_358.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	3.33
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking upstream at a typical view of levee.

richard\_s\_20120507\_359.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.28	04/25/2012 04/25/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	1.26	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.033965 ° -120.442032 °	37.046322 ° -120.428082 °	12 Y
DWR ID: DWR_NA0010_13_s_2012_12										
2	0.02	1.26	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.033967 ° -120.442032 °	37.046322 ° -120.428085 °	11 Y
DWR ID: DWR_NA0010_13_s_2012_11										
3	0.02	1.26	Earthen Levee	Vegetation	LS A/W	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.033982 ° -120.441997 °	37.046320 ° -120.428138 °	1
DWR ID: DWR_NA0010_13_s_2012_1										
4	0.14	0.14	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.035697 ° -120.441197 °	37.035697 ° -120.441197 °	3
DWR ID: DWR_NA0010_13_s_2012_3										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.28	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	1.26
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at typical view of levee.

richard\_s\_20120501\_315.jpg



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of levee.

richard\_s\_20120501\_314.jpg



**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough						Left	1.28	04/25/2012 04/25/2012	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	1.28	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.032400 ° -120.441237 °	37.045520 ° -120.427340 °	1 Y
DWR ID: DWR_NA0010_14_s_2012_1										
2	0.00	1.28	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	37.032400 ° -120.441237 °	37.045520 ° -120.427340 °	2 Y
DWR ID: DWR_NA0010_14_s_2012_2										
3	0.08	0.08	Channels	Concrete Foundations	WS	M <sub>Ma</sub>	Inspector Comments: Erosion on downstream side of structure.	37.033473 ° -120.440802 °	37.033473 ° -120.440802 °	3
DWR ID: DWR_NA0010_14_s_2012_3										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/25/2012 04/25/2012	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 west at typical view of levee.

richard\_s\_20120501\_316.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.28
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of levee.

richard\_s\_20120501\_317.jpg



**\* Location**

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En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 15 Berenda Slough						Right	2.03	04/25/2012 04/25/2012	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	1.51	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.996540 ° -120.410213 °	° °	9 Y
DWR ID: DWR_NA0010_15_s_2012_9										
2	0.00	1.51	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.996543 ° -120.410217 °	° °	10 Y
DWR ID: DWR_NA0010_15_s_2012_10										
3	0.00	1.51	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Keep the crown roadway free of vegetation.	36.996547 ° -120.410220 °	° °	11 Y
DWR ID: DWR_NA0010_15_s_2012_11										
4	1.52	1.99	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth on landside, waterside and crown of levee.	36.996572 ° -120.382907 °	36.996587 ° -120.374503 °	3 Y
DWR ID: DWR_NA0010_15_s_2012_3										

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west (downstream) at typical view of landside slope.

richard\_s\_20120501\_322.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.51
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of landside slope.

richard\_s\_20120501\_319.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	1.51
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking east at typical view of vegetation on levee crown.

richard\_s\_20120501\_320.jpg



**\* Location**

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WS : Water Side  
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En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	1.52
End Levee Mile	1.99
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking east at unwanted vegetation on levee crown and slope.

richard\_s\_20120501\_321.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**+ Issue Type**

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

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough						Left	1.98	04/25/2012 04/25/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	1.42	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	36.995388 ° -120.408743 °	36.995448 ° -120.383468 °	2 Y
DWR ID: DWR_NA0010_16_s_2012_2										
2	0.00	1.42	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	36.995387 ° -120.408748 °	36.995448 ° -120.383468 °	13 Y
DWR ID: DWR_NA0010_16_s_2012_13										
3	0.00	1.42	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M <sub>Ma</sub>	C1 : Keep the crown roadway free of vegetation.	36.995388 ° -120.408738 °	36.995447 ° -120.383467 °	14 Y
DWR ID: DWR_NA0010_16_s_2012_14										
4	1.42	1.97	Earthen Levee	Vegetation	WS	U <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth is on landside, waterside and crown of levee.	36.995473 ° -120.383472 °	36.995488 ° -120.373568 °	1 Y
DWR ID: DWR_NA0010_16_s_2012_1										
5	1.77	1.77	Earthen Levee	Slope Stability	LS	M <sub>Ma</sub>	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  
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 - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.42
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west (downstream) at typical view of landside slope.

richard\_s\_20120501\_324.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of waterside slope.

richard\_s\_20120501\_326.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	1.42
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking west (downstream) at unwanted vegetation on levee crown.

richard\_s\_20120501\_325.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	1.42
End Levee Mile	1.97
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking east (upstream) at unwanted vegetation on both levee slope and levee crown.	
richard_s_20120501_323.jpg	

**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 17 Chowchilla Canal Bypass				Right	16.09	04/25/2012 04/25/2012	Richard Willoughby	

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	16.09	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.976435 ° -120.374748 °	36.774458 ° -120.283783 °	2 Y
DWR ID: DWR_NA0010_17_s_2012_2										
2	0.00	16.09	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.976432 ° -120.374748 °	36.774455 ° -120.283782 °	3 Y
DWR ID: DWR_NA0010_17_s_2012_3										
3	0.00	5.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Keep the crown roadway free of vegetation.	36.976430 ° -120.374748 °	36.908282 ° -120.330995 °	7 Y
DWR ID: DWR_NA0010_17_s_2012_7										
4	4.69	4.69	Earthen Levee	Encroachments	CR	M Ma	PI : Pipe Inspector Comments: Farmer installed 10" steel irrigation pipe across levee crown.	36.923368 ° -120.336500 °	36.923368 ° -120.336500 °	1 Y
DWR ID: DWR_NA0010_17_s_2012_1										
5	5.67	5.90	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	36.909658 ° -120.331508 °	36.906507 ° -120.330353 °	8 Y
DWR ID: DWR_NA0010_17_s_2012_8										
6	6.51	6.60	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	36.898124 ° -120.326714 °	36.896943 ° -120.326133 °	4
DWR ID: DWR_NA0010_17_s_2012_4										
7	7.27	7.39	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.887869 ° -120.321697 °	36.886341 ° -120.320940 °	5
DWR ID: DWR_NA0010_17_s_2012_5										
8	8.11	8.28	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.876132 ° -120.317926 °	36.873749 ° -120.317465 °	6
DWR ID: DWR_NA0010_17_s_2012_6										

**\* Location**

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**+ Issue Type**

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

## Levee Inspection Report By Mile - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/25/2012 04/25/2012	Richard Willoughby

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

Looking south at typical view of waterside slope.

richard\_s\_20120501\_327.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	16.09
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of landside slope.

richard\_s\_20120501\_331.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	5.77
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at unwanted vegetation on levee crown.

richard\_s\_20120501\_328.jpg



**\* Location**

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	4.69
End Levee Mile	4.69
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized steel pipe across levee crown.

richard\_s\_20120501\_329.jpg



Levee Mile Report Line	5
Start Levee Mile	5.67
End Levee Mile	5.90
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at several rodent holes on landside slope.

richard\_s\_20120501\_330.jpg



**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass						Left	15.33	04/25/2012 04/25/2012	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	15.29	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.974073 ° -120.363170 °	36.773742 ° -120.285247 °	44
DWR ID: DWR_NA0010_18_s_2012_44										
2	0.00	15.29	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.974070 ° -120.363170 °	36.773745 ° -120.285245 °	43 Y
DWR ID: DWR_NA0010_18_s_2012_43										
3	7.53	8.78	Earthen Levee	Vegetation	WSA/W	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense tumble weed on landside and waterside shoulder.	36.872307 ° -120.319380 °	36.854355 ° -120.316502 °	2
DWR ID: DWR_NA0010_18_s_2012_2										
4	8.04	8.04	Earthen Levee	Encroachments	WS	M Ma	GA : Garbage Inspector Comments: Garbage on waterside shoulder.	36.865062 ° -120.317977 °	36.865062 ° -120.317977 °	4 Y
DWR ID: DWR_NA0010_18_s_2012_4										
5	11.86	13.15	Earthen Levee	Vegetation	LS A/W	M 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
DWR ID: DWR_NA0010_18_s_2012_1										

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.33	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	15.29
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee slope.

richard\_s\_20120501\_342.jpg



Levee Mile Report Line	4
Start Levee Mile	8.04
End Levee Mile	8.04
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking north at garbage on waterside slope.

richard\_s\_20120501\_341.jpg



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

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal				Left	5.50	04/24/2012 04/24/2012	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	5.42	Earthen Levee	Vegetation	LS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.205957 ° -120.696972 °	37.271403 ° -120.740813 °	55
DWR ID: DWR_NA0010_22A_s_2012_55									
2	0.00	5.42	Earthen Levee	Vegetation	WS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.205962 ° -120.696982 °	37.271407 ° -120.740818 °	56
DWR ID: DWR_NA0010_22A_s_2012_56									
3	0.10	0.10	Earthen Levee	Erosion / Bank Caving	WS Ma	E1 : Note and monitor erosion site. Inspector Comments: Erosion located next to screw gate.	37.206985 ° -120.696225 °	37.206985 ° -120.697457 °	7 Y
DWR ID: DWR_NA0010_22A_s_2012_7									
4	0.68	0.88	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.215360 ° -120.698078 °	37.218128 ° -120.697457 °	8
DWR ID: DWR_NA0010_22A_s_2012_8									
5	2.65	3.65	Earthen Levee	Animal Control	WS Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: There're several slope stability issues along this channel cause by animal foot traffic that need to be monitored.	37.242563 ° -120.706435 °	37.253465 ° -120.717952 °	1 Y
DWR ID: DWR_NA0010_22A_s_2012_1									
6	3.14	3.14	Earthen Levee	Trim / Thin Trees	WS Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.248208 ° -120.711500 °	37.248208 ° -120.711500 °	2
DWR ID: DWR_NA0010_22A_s_2012_2									
7	3.85	3.85	Channels	Encroachments	WS En	Inspector Comments: Stevenson Irrigation District constructed a concrete weir across channel without a permit. Still waiting for permit.	37.255568 ° -120.720551 °	37.255568 ° -120.720551 °	4 Y
DWR ID: DWR_NA0010_22A_s_2012_4									
8	4.25	4.32	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	C2 : Regrade the crown roadway for proper drainage.	37.259822 ° -120.725557 °	37.259823 ° -120.725558 °	52
DWR ID: DWR_NA0010_22A_s_2012_52									
9	4.68	4.68	Channels	Encroachments	WS En	Inspector Comments: Old wooden bridge in channel should be removed.	37.264250 ° -120.731280 °	37.264250 ° -120.731280 °	3 Y
DWR ID: DWR_NA0010_22A_s_2012_3									
10	4.80	4.86	Earthen Levee	Animal Control	WS Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion caused by livestock on waterside toe.	37.265180 ° -120.732745 °	37.265743 ° -120.733602 °	5 Y
DWR ID: DWR_NA0010_22A_s_2012_5									
11	4.81	4.84	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	C3 : Add appropriate gravel or road base. Grade and compact.	37.265330 ° -120.732960 °	37.265705 ° -120.733553 °	10
DWR ID: DWR_NA0010_22A_s_2012_10									
12	5.07	5.10	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	C2 : Regrade the crown roadway for proper drainage. Inspector Comments: Minor rutting on levee crown.	37.267682 ° -120.736597 °	37.267967 ° -120.736913 °	9 Y
DWR ID: DWR_NA0010_22A_s_2012_9									

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	04/24/2012 04/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
13	5.09	5.09	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Regrade the crown roadway for proper drainage.	37.267903 ° -120.736878 °	37.267903 ° -120.736878 °	57
DWR ID: DWR_NA0010_22A_s_2012_57										
14	5.15	5.20	Earthen Levee	Animal Control	WS	M Ma	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**

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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 - Spring 2012**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	04/24/2012 04/24/2012	Richard Willoughby

Levee Mile Report Line	3
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\_s\_20120430\_310.jpg



Levee Mile Report Line	5
Start Levee Mile	2.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking northeast at animal erosion on waterside slope.

richard\_s\_20120430\_299.jpg



Levee Mile Report Line	5
Start Levee Mile	2.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking south at animal erosion on waterside slope.

richard\_s\_20120430\_300.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	04/24/2012 04/24/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Channels
Item	Encroachments

Looking north at unauthorized weir across Eastside Canal.

richard\_s\_20120430\_298.jpg



Levee Mile Report Line	9
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\_s\_20120430\_296.jpg



Levee Mile Report Line	9
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking northeas at dilapidated bridge across canal.

richard\_s\_20120430\_297.jpg



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

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	04/24/2012 04/24/2012	Richard Willoughby

Levee Mile Report Line	10
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\_s\_20120430\_295.jpg



Levee Mile Report Line	12
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\_s\_20120313\_111.jpg



Levee Mile Report Line	14
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\_s\_20120430\_294.jpg



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

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	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 - Spring 2012**

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River				Right	10.25	04/25/2012 04/25/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.02	10.24	Earthen Levee	Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.774218 ° -120.283468 °	36.814700 ° -120.168868 °	8 Y
DWR ID: DWR_NA0010_23_s_2012_8									
2	0.02	10.24	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.774218 ° -120.283468 °	36.814703 ° -120.168867 °	14 Y
DWR ID: DWR_NA0010_23_s_2012_14									
3	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									
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	2.85	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									
6	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									
7	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									
8	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									
9	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									
10	5.23	5.23	Earthen Levee	Encroachments	WS U Ma	MA : Material Inspector Comments: Sand pile in levee channel over three feet high. Pile is to close to levee.	36.791400 ° -120.214222 °	36.791400 ° -120.214222 °	7 Y
DWR ID: DWR_NA0010_23_s_2012_7									
11	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									
12	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									
13	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**

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C : Corrected  
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 - Spring 2012**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	04/25/2012 04/25/2012	Richard Willoughby

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

14	9.10	9.21	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 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. [2011 Site ID:NA0010U23RM224.27]	36.802116 ° -120.173847 °	36.802116 ° -120.173847 °	4
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DWR ID: DWR\_NA0010\_23\_s\_2012\_4

15	9.21	9.26	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 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. [2011 Site ID:NA0010U23RM224.33]	36.802898 ° -120.173278 °	36.802898 ° -120.173278 °	6
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DWR ID: DWR\_NA0010\_23\_s\_2012\_6

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

## Levee Inspection Report By Mile - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	10.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee.

richard\_s\_20120501\_332.jpg



Levee Mile Report Line	5
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\_s\_20120501\_333.jpg



Levee Mile Report Line	6
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\_s\_20120501\_334.jpg



**\* Location**

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2012

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	7
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\_s\_20120501\_335.jpg



Levee Mile Report Line	8
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\_s\_20120501\_336.jpg



Levee Mile Report Line	9
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\_s\_20120501\_337.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	10
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\_s\_20120501\_338.jpg



Levee Mile Report Line	11
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\_s\_20120501\_339.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/25/2012 - 4/25/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River				Left	8.34	04/25/2012 04/25/2012	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	7.34	Earthen Levee	Vegetation	LS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	36.772882 ° -120.285215 °	36.779285 ° -120.198930 °	1 Y
DWR ID: DWR_NA0010_24_s_2012_1										
2	0.02	7.34	Earthen Levee	Vegetation	WS	M <sub>Ma</sub>	V1 : Control annual grass and weeds on the levee slopes and easements.	36.772882 ° -120.285213 °	36.779278 ° -120.198923 °	5
DWR ID: DWR_NA0010_24_s_2012_5										
3	0.76	1.85	Earthen Levee	Vegetation	LS A/W	M <sub>Ma</sub>	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.766028 ° -120.279443 °	36.771655 ° -120.264455 °	4
DWR ID: DWR_NA0010_24_s_2012_4										
4	3.46	3.46	Earthen Levee	Animal Control	LS	M <sub>Ma</sub>	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.769345 ° -120.238370 °	36.769345 ° -120.238370 °	7
DWR ID: DWR_NA0010_24_s_2012_7										
5	5.39	6.46	Earthen Levee	Vegetation	WSA/W	M <sub>Ma</sub>	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										
6	6.33	6.33	Earthen Levee	Encroachments	WSA/W	En	PR : Prunings Inspector Comments: Large pruning pile in channel.	36.788155 ° -120.209655 °	36.788155 ° -120.209655 °	3
DWR ID: DWR_NA0010_24_s_2012_3										

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.34	04/25/2012 04/25/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	7.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of levee.

richard\_s\_20120501\_340.jpg



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

**Unit Cover Sheet**

**Spring 2012 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)				
Date of Inspection	4/27/2012 - 4/27/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough					Right	2.47	04/27/2012 04/27/2012	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	2.47	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.296117 ° -120.880725 °	37.271137 ° -120.866619 °	6 Y
DWR ID: DWR_NA0010_25_s_2012_6										
2	0.00	2.47	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Keep the crown roadway free of vegetation.	37.296117 ° -120.880724 °	37.271163 ° -120.866629 °	8 Y
DWR ID: DWR_NA0010_25_s_2012_8										
3	0.00	2.47	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.296117 ° -120.880724 °	37.271137 ° -120.866619 °	7 Y
DWR ID: DWR_NA0010_25_s_2012_7										

**\* Location**

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.47	04/27/2012 04/27/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at a typical view of levee.

richard\_s\_20120507\_374.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking west at vegetation on levee crown.

richard\_s\_20120507\_373.jpg



**\* Location**

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