

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

Lower San Joaquin Levee District

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

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

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

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00		Operations & Maintenance Manuals	LS	A		°	°	23
						Ma		°	°	
DWR ID: DWR_NA0010_01_s_2013_23										
2	0.00	0.00		Emergency Supplies & Equipment	LS	M		°	°	24
						Ma		°	°	
DWR ID: DWR_NA0010_01_s_2013_24										
3	0.00	0.00		Flood Preparedness & Training	LS	A		°	°	25
						Ma		°	°	
DWR ID: DWR_NA0010_01_s_2013_25										
4	0.01	22.55		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.348628 ° -120.958802 °	37.166772 ° -120.749510 °	26
						Ma				
DWR ID: DWR_NA0010_01_s_2013_26										
5	0.01	22.56		Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.348628 ° -120.958800 °	37.166770 ° -120.749507 °	27
						Ma				
DWR ID: DWR_NA0010_01_s_2013_27										
6	0.03	0.07		Animal Control	LS	A	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.348522 ° -120.959090 °	37.348190 ° -120.959603 °	114 Y
						Ma				
DWR ID: DWR_NA0010_01_s_2012_114										
7	0.07	0.15		Vegetation	WSA/W	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.348223 ° -120.959593 °	37.347282 ° -120.960470 °	4
						Ma				
DWR ID: DWR_NA0010_01_s_2012_4										
8	0.07	2.52		Vegetation	LS A/W	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.348222 ° -120.959598 °	37.328627 ° -120.934388 °	3
						Ma				
DWR ID: DWR_NA0010_01_s_2012_3										
9	0.16	0.16		Trim / Thin Trees	WSA/W	M	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.347152 ° -120.960560 °	37.347152 ° -120.960560 °	7
						Ma				
DWR ID: DWR_NA0010_01_s_2012_7										
10	0.24	0.27		Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.346152 ° -120.961402 °	37.345822 ° -120.961638 °	1
						Ma				
DWR ID: DWR_NA0010_01_s_2012_1										
11	3.18	3.18		Animal Control	LS	M	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
						Ma				
DWR ID: DWR_NA0010_01_s_2012_10										
12	3.50	3.96		Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	°	°	17
						Ma		°	°	
DWR ID: DWR_NA0010_01_f_2012_17										
13	3.72	3.74		Animal Control	LS	M	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
						Ma				
DWR ID: DWR_NA0010_01_s_2012_2										
14	4.00	4.08		Encroachments	LS	M	DT : Ditch Inspector Comments: Irrigation ditch at landside toe	37.310837 ° -120.926182 °	37.310003 ° -120.925313 °	5 Y
						En				
DWR ID: DWR_NA0010_01_s_2012_5										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
15	4.20	4.20		Animal Control	LS Ma	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									
16	4.72	4.72		Animal Control	LS Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Levee landward toe damaged by live stock.	37.302398 ° -120.920920 °	37.302398 ° -120.920920 °	9 Y
DWR ID: DWR_NA0010_01_s_2013_9									
17	5.75	5.75		Animal Control	LS A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes on landside slope near fence pole.	37.304057 ° -120.907200 °	37.304057 ° -120.907200 °	116 Y
DWR ID: DWR_NA0010_01_s_2012_116									
18	6.04	6.46		Vegetation	WSA/W Ma	V9 : Keep the crown roadway free of vegetation.	37.303715 ° -120.902115 °	37.303838 ° -120.891912 °	13 Y
DWR ID: DWR_NA0010_01_s_2012_13									
19	6.04	6.46		Vegetation	LS Ma	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									
20	6.83	7.36		Crown Surface / Depressions / Rutting	CR Ma	C2 : Repair depressions or ruts in the crown or slope.	37.302540 ° -120.889113 °	37.299882 ° -120.880217 °	11 Y
DWR ID: DWR_NA0010_01_s_2013_11									
21	7.41	7.81		Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.299855 ° -120.879455 °	37.298730 ° -120.872387 °	14 Y
DWR ID: DWR_NA0010_01_s_2012_14									
22	8.53	9.04		Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.296267 ° -120.860195 °	37.297492 ° -120.851050 °	16 Y
DWR ID: DWR_NA0010_01_s_2012_16									
23	8.53	9.04		Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.296262 ° -120.860183 °	37.297492 ° -120.851052 °	15 Y
DWR ID: DWR_NA0010_01_s_2012_15									
24	9.02	9.50		Vegetation	WS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	° °	° °	18 Y
DWR ID: DWR_NA0010_01_f_2012_18									
25	9.02	9.50		Vegetation	LS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	° °	° °	19 Y
DWR ID: DWR_NA0010_01_f_2012_19									
26	9.21	10.76		Crown Surface / Depressions / Rutting	CR Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.296145 ° -120.848588 °	37.293077 ° -120.839170 °	117 Y
DWR ID: DWR_NA0010_01_s_2012_117									
27	10.88	11.41		Crown Surface / Depressions / Rutting	CR Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: Remove vegetation from levee crown.	37.283153 ° -120.830870 °	37.278878 ° -120.824165 °	28 Y
DWR ID: DWR_NA0010_01_s_2013_28									

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

36	22.16	22.55	Crown Surface / Depressions / Rutting	CR A/W Ma	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: Rutting on levee crown.	37.170692 ° -120.754445 °	37.166802 ° -120.749623 °	21
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DWR ID: DWR_NA0010_01_f_2012_21

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Land Side
Category	
Item	Animal Control

Looking at typical rodent hole at this location.

richard_s_20130304_067.jpg



Levee Mile Report Line	6
Start Levee Mile	0.03
End Levee Mile	0.07
Location	Land Side
Category	
Item	Animal Control

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

richard_s_20130610_149.JPG



Levee Mile Report Line	14
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	
Item	Encroachments

Looking south at irrigation ditch at landside toe.

richard_s_20130304_059.jpg



*** Location**

LS : Land Side
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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	
Item	Encroachments

Looking north at irrigation ditch at landside toe.

richard_s_20130304_060.jpg



Levee Mile Report Line	16
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	
Item	Animal Control

Looking south at damage slope by livestock on landward slope.

richard_s_20130610_150.JPG



Levee Mile Report Line	17
Start Levee Mile	5.75
End Levee Mile	5.75
Location	Land Side
Category	
Item	Animal Control

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

richard_s_20130304_068.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	5.75
End Levee Mile	5.75
Location	Land Side
Category	
Item	Animal Control
Looking northeast at one of several holes on landside shoulder and slope.	
richard_s_20130304_069.jpg	



Levee Mile Report Line	17
Start Levee Mile	5.75
End Levee Mile	5.75
Location	Land Side
Category	
Item	Animal Control
Looking south at repaired rodent site on landside slope. (Fall 2012)	
richard_s_20130304_070.JPG	



Levee Mile Report Line	24
Start Levee Mile	9.02
End Levee Mile	9.50
Location	Water Side
Category	
Item	Vegetation
Looking south at typical view of tumble weeds on landside and waterside slope.	
richard_s_20130304_062.JPG	



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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	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	24
Start Levee Mile	9.02
End Levee Mile	9.50
Location	Water Side
Category	
Item	Vegetation

Looking south at typical view of levee. (Spring 2013)

richard_s_20130610_152.JPG



Levee Mile Report Line	26
Start Levee Mile	9.21
End Levee Mile	10.76
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

Looking south at typical view of vegetation on levee crown.

richard_s_20130304_071.jpg



Levee Mile Report Line	26
Start Levee Mile	9.21
End Levee Mile	10.76
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

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

richard_s_20130610_151.JPG



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	10.88
End Levee Mile	11.41
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking south at vegetation on levee crown.	
richard_s_20130610_153.JPG	



Levee Mile Report Line	29
Start Levee Mile	15.79
End Levee Mile	15.79
Location	Land Side
Category	
Item	Encroachments
Looking north at a downed tree limb on landward slope and toe.	
richard_s_20130611_199.JPG	



Levee Mile Report Line	32
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	
Item	Encroachments
Looking south at pipe across levee crown.	
richard_s_20130304_061.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	33
Start Levee Mile	19.95
End Levee Mile	20.23
Location	Crown
Category	
Item	Vegetation

Looking north at vegetation on levee crown,

richard_s_20130611_204.JPG



Levee Mile Report Line	34
Start Levee Mile	21.46
End Levee Mile	22.02
Location	Land Side
Category	
Item	Encroachments

Looking west at farmer discing landside slope.

richard_s_20130304_063.JPG



Levee Mile Report Line	34
Start Levee Mile	21.46
End Levee Mile	22.02
Location	Land Side
Category	
Item	Encroachments

Looking east at farmer discing into landside slope.

richard_s_20130304_064.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	35
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	
Item	Encroachments

Looking upstream at irrigation at landside toe.

richard_s_20130304_065.jpg



Levee Mile Report Line	35
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	
Item	Encroachments

Looking downstream at irrigation ditch at landside toe.

richard_s_20130304_066.jpg



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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+ Issue Type

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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River				Left	7.87	06/06/2013 06/07/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	1.70		Crown Surface / Depressions / Rutting	LS A/W Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.296122 ° -120.880723 °	37.289429 ° -120.861115 °	3 Y
DWR ID: DWR_NA0010_02A_s_2012_3									
2	0.00	7.87		Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	° -120.880667 °	37.296271 ° -120.811192 °	4 Y
DWR ID: DWR_NA0010_02A_f_2012_4									
3	0.00	7.87		Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.296148 ° -120.880718 °	37.231335 ° -120.811927 °	6 Y
DWR ID: DWR_NA0010_02A_s_2013_6									
4	0.13	0.13		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large possible rodent hole on landward slope.	37.294857 ° -120.879782 °	37.294857 ° -120.879782 °	8 Y
DWR ID: DWR_NA0010_02A_s_2013_8									
5	0.13	0.13		Animal Control	CR M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Small rodent holes on levee crown.	37.294855 ° -120.879782 °	37.294855 ° -120.879782 °	7 Y
DWR ID: DWR_NA0010_02A_s_2013_7									
6	0.77	0.77		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									
7	2.33	2.33		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									
8	5.10	6.91		Crown Surface / Depressions / Rutting	CR M Ma	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: Rutting on levee crown.	37.261990 ° -120.832408 °	37.242315 ° -120.822120 °	1
DWR ID: DWR_NA0010_02A_f_2012_1									
9	7.76	7.76		Vegetation	LS A/W 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									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	06/06/2013 06/07/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.70
Location	Water Side
Category	
Item	Crown Surface / Depressions / Rutting
Looking north at vegetation on levee crown.	
richard_s_20130304_074.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	7.87
Location	Land Side
Category	
Item	Vegetation
Looking north at typical view of levee slopes.	
richard_s_20130304_075.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	7.87
Location	Land Side
Category	
Item	Vegetation
Looking south at typical view of landward slope. (Spring 2013)	
richard_s_20130611_208.JPG	



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	06/06/2013 06/07/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	7.87
Location	Water Side
Category	
Item	Vegetation

Looking north at typical view of waterward slope.

richard_s_20130611_209.JPG



Levee Mile Report Line	4
Start Levee Mile	0.13
End Levee Mile	0.13
Location	Land Side
Category	
Item	Animal Control

Looking at large rodent hole on landward slope.

richard_s_20130611_211.JPG



Levee Mile Report Line	5
Start Levee Mile	0.13
End Levee Mile	0.13
Location	Crown
Category	
Item	Animal Control

Looking at rodent hole on levee crown.

richard_s_20130611_210.JPG



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	06/06/2013 06/07/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Water Side
Category	
Item	Erosion / Bank Caving
Looking south at large erosion on waterside slope. (Spring 2012)	
richard_s_20130304_076.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.33
End Levee Mile	2.33
Location	Land Side
Category	
Item	Encroachments
Looking northwest at ramp on landside slope near Hwy 140.	
richard_s_20130304_072.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.33
End Levee Mile	2.33
Location	Land Side
Category	
Item	Encroachments
Looking northeast at ramp on waterside slope near Hwy 140.	
richard_s_20130304_073.jpg	



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	06/06/2013 06/07/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	7.76
End Levee Mile	7.76
Location	Land Side
Category	
Item	Vegetation

Looking north dense vegetation at landside slope and toe.

richard_s_20130304_077.jpg



Levee Mile Report Line	9
Start Levee Mile	7.76
End Levee Mile	7.76
Location	Land Side
Category	
Item	Vegetation

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

richard_s_20130304_078.JPG



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River				Left	5.92	06/06/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	7.87	13.45		Crown Surface / Depressions / Rutting	CR A/W Ma		C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.231279 ° -120.811852 °	37.176608 ° -120.762619 °	3 Y
DWR ID: DWR_NA0010_02B_s_2012_3										
2	7.87	13.79		Vegetation	WS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.231277 ° -120.811875 °	37.172200 ° -120.761180 °	7 Y
DWR ID: DWR_NA0010_02B_s_2013_7										
3	7.87	13.79		Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.231270 ° -120.811867 °	37.172197 ° -120.761173 °	1 Y
DWR ID: DWR_NA0010_02B_f_2012_1										
4	9.46	9.46		Encroachments	LS Ma	M	TR : Tree or limb Inspector Comments: Broken tree limb on landside slope.	37.220212 ° -120.788637 °	37.220212 ° -120.788637 °	2 Y
DWR ID: DWR_NA0010_02B_f_2012_2										
5	9.50	9.98		Vegetation	LS A/W Ma		V2 : Remove the wild growth other than native grasses from the levee slopes.	37.220463 ° -120.787837 °	37.216298 ° -120.783906 °	6 Y
DWR ID: DWR_NA0010_02B_s_2012_6										
6	9.66	9.66		Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.220598 ° -120.785293 °	37.220598 ° -120.785293 °	9 Y
DWR ID: DWR_NA0010_02B_s_2013_9										
7	12.10	12.10		Vegetation	WSA/W Ma		V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove wild roses or berryvines on landside toe.	37.193504 ° -120.763859 °	37.193504 ° -120.763859 °	5 Y
DWR ID: DWR_NA0010_02B_s_2012_5										
8	12.71	12.71		Trim / Thin Trees	LS A/W Ma		T4 : Trim trees over roadway to at least 12 feet above ground level.	37.185688 ° -120.768181 °	37.185688 ° -120.768181 °	4 Y
DWR ID: DWR_NA0010_02B_s_2012_4										
9	13.47	13.47		Trim / Thin Trees	LS Ma	M	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.176397 ° -120.762280 °	37.176397 ° -120.762280 °	8 Y
DWR ID: DWR_NA0010_02B_s_2013_8										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	06/06/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	7.87
End Levee Mile	13.45
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking north at vegetation on levee crown.	
richard_s_20130304_080.jpg	



Levee Mile Report Line	1
Start Levee Mile	7.87
End Levee Mile	13.45
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking at typical view of levee crown.	
richard_s_20130304_081.JPG	



Levee Mile Report Line	1
Start Levee Mile	7.87
End Levee Mile	13.45
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking north at levee crown.	
richard_s_20130611_206.JPG	

*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	06/06/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	9.46
End Levee Mile	9.46
Location	Land Side
Category	
Item	Encroachments
Looking north at broken tree limb on landside slope.	
richard_s_20130304_079.JPG	



Levee Mile Report Line	5
Start Levee Mile	9.50
End Levee Mile	9.98
Location	Land Side
Category	
Item	Vegetation
Looking northwest at dense vegetation on landside slope and toe.	
richard_s_20130304_082.jpg	



Levee Mile Report Line	5
Start Levee Mile	9.50
End Levee Mile	9.98
Location	Land Side
Category	
Item	Vegetation
Looking north at removed wild growth on landside toe. (Fall 2012)	
richard_s_20130304_083.JPG	



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	06/06/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	9.66
End Levee Mile	9.66
Location	Land Side
Category	
Item	Trim / Thin Trees

Looking south at tree on landward toe.

richard_s_20130611_207.JPG



Levee Mile Report Line	9
Start Levee Mile	13.47
End Levee Mile	13.47
Location	Land Side
Category	
Item	Trim / Thin Trees

Looking south at overhanging tree limb on landward slope.

richard_s_20130611_205.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River				Right	2.16	06/06/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	2.16		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.111952 ° -120.587405 °	37.088360 ° -120.566905 °	4 Y
DWR ID: DWR_NA0010_03_s_2013_4										
2	0.00	2.16		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.111950 ° -120.587405 °	37.088363 ° -120.566907 °	3 Y
DWR ID: DWR_NA0010_03_s_2013_3										
3	0.43	0.43	Interior Drainage & Piping Systems	Vegetation & Obstructions	LS	C Ma	Inspector Comments: Drain pipe was un-plugged on inlet side.	37.106284 ° -120.585848 °	37.106284 ° -120.585848 °	2
DWR ID: DWR_NA0010_03_f_2012_2										
4	0.44	1.17		Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.106122 ° -120.585670 °	37.098825 ° -120.576995 °	1
DWR ID: DWR_NA0010_03_s_2012_1										
5	0.45	2.16		Vegetation	CR	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Control vegetation on levee crown	37.106087 ° -120.585645 °	37.088352 ° -120.566898 °	5 Y
DWR ID: DWR_NA0010_03_s_2013_5										

*** 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 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.16	06/06/2013 06/06/2013	Richard Willoughby

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

Looking north at typical view of waterward slope.

richard_s_20130611_193.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	2.16
Location	Land Side
Category	
Item	Vegetation

Looking south at typical view of landward slope.

richard_s_20130611_194.JPG



Levee Mile Report Line	5
Start Levee Mile	0.45
End Levee Mile	2.16
Location	Crown
Category	
Item	Vegetation

Looking south at levee crown.

richard_s_20130611_192.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River						Left	1.58	06/06/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	1.58		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.112523 ° -120.589107 °	37.095332 ° -120.577948 °	1
								DWR ID: DWR_NA0010_04_s_2013_1		
2	0.00	1.58		Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.112520 ° -120.589108 °	37.095332 ° -120.577948 °	2
								DWR ID: DWR_NA0010_04_s_2013_2		
3	0.32	1.49		Encroachments	CR	M	DT : Ditch Inspector Comments: Agricultural Ditch within 10' easement.	37.108822 ° -120.590718 °	37.096532 ° -120.578027 °	3 Y
								DWR ID: DWR_NA0010_04_s_2012_3		

*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.58	06/06/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.32
End Levee Mile	1.49
Location	Crown
Category	
Item	Encroachments

Looking north at irrigation ditch at landside toe.

richard_s_20130304_085.jpg



Levee Mile Report Line	3
Start Levee Mile	0.32
End Levee Mile	1.49
Location	Crown
Category	
Item	Encroachments

Looking north at irrigation ditch at landside toe.

richard_s_20130304_086.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 05 East Side Bypass				Right	34.75	06/04/2013 06/06/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	34.75		Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.278928 ° -120.824197 °	° °	8
DWR ID: DWR_NA0010_05_s_2013_8									
2	0.00	34.75		Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.278927 ° -120.824198 °	° °	23
DWR ID: DWR_NA0010_05_s_2013_23									
3	0.00	34.75		Vegetation	CR M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	° °	° °	26
DWR ID: DWR_NA0010_05_s_2013_26									
4	0.64	0.64		Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.273445 ° -120.815210 °	37.273445 ° -120.815210 °	24 Y
DWR ID: DWR_NA0010_05_s_2013_24									
5	0.81	2.07		Crown Surface / Depressions / Rutting	CR A/W Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.272262 ° -120.812532 °	37.259735 ° -120.797307 °	169
DWR ID: DWR_NA0010_05_s_2012_169									
6	2.81	2.86		Trim / Thin Trees	LS A/W 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									
7	3.19	3.19		Encroachments	WS M En	RA : Ramp Inspector Comments: Unauthorized ramp on waterside slope.	37.256554 ° -120.778847 °	37.256554 ° -120.778847 °	7 Y
DWR ID: DWR_NA0010_05_f_2012_7									
8	3.32	3.32		Trim / Thin Trees	LS A/W 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									
9	3.54	3.54		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									
10	4.50	5.61		Crown Surface / Depressions / Rutting	CR C Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.243842 ° -120.757263 °	37.238453 ° -120.739068 °	170
DWR ID: DWR_NA0010_05_s_2012_170									
11	4.99	4.99		Animal Control	LS M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.240732 ° -120.749512 °	37.240732 ° -120.749512 °	12 Y
DWR ID: DWR_NA0010_05_f_2012_12									
12	6.50	6.50		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									
13	6.58	8.09		Crown Surface / Depressions / Rutting	CR C 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									
14	6.59	6.59		Animal Control	CR M Ma	Inspector Comments: Rodent hole on top of levee crown.	37.229672 ° -120.726358 °	37.229672 ° -120.726358 °	25
DWR ID: DWR_NA0010_05_s_2013_25									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass				Right	34.75	06/04/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
15	8.06	8.06		Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.213600 ° -120.706630 °	37.213600 ° -120.706630 °	4
DWR ID: DWR_NA0010_05_s_2012_4										
16	8.83	8.83		Animal Control	WS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.205778 ° -120.696843 °	37.205778 ° -120.696843 °	5
DWR ID: DWR_NA0010_05_s_2012_5										
17	11.49	11.49		Trim / Thin Trees	LS	A/W	T1 : Trim trees to at least five feet above ground level.	37.186440 ° -120.657870 °	37.186440 ° -120.657870 °	10
DWR ID: DWR_NA0010_05_s_2012_10										
18	12.63	13.14		Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.175822 ° -120.645384 °	37.174496 ° -120.636638 °	13
DWR ID: DWR_NA0010_05_f_2012_13										
19	12.87	13.08		Encroachments	LS	M	FE : Fence Inspector Comments: Electrical fence on landward slope	37.175782 ° -120.641112 °	37.174977 ° -120.637342 °	27
DWR ID: DWR_NA0010_05_s_2013_27										
20	13.86	15.09		Vegetation	WSA/W	Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.166592 ° -120.628050 °	37.156798 ° -120.609486 °	14
DWR ID: DWR_NA0010_05_f_2012_14										
21	17.53	20.82		Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.127740 ° -120.585198 °	37.098363 ° -120.544555 °	17
DWR ID: DWR_NA0010_05_f_2012_17										
22	24.86	25.66		Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.054377 ° -120.496231 °	37.045531 ° -120.486959 °	18
DWR ID: DWR_NA0010_05_f_2012_18										
23	25.49	25.54		Animal Control	LS	A/W	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										
24	26.88	27.90		Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.032681 ° -120.473372 °	37.032574 ° -120.454938 °	19
DWR ID: DWR_NA0010_05_f_2012_19										
25	26.88	27.90		Crown Surface / Depressions / Rutting	CR	A/W	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.032681 ° -120.473370 °	37.032573 ° -120.454938 °	20
DWR ID: DWR_NA0010_05_f_2012_20										
26	29.58	29.70		Erosion / Bank Caving	WS	M	E1 : Note and monitor erosion site. Inspector Comments: Waterside erosion caused by livestock.	37.020272 ° -120.433737 °	37.018712 ° -120.432682 °	171
DWR ID: DWR_NA0010_05_s_2012_171										
27	29.76	31.66		Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.017953 ° -120.432132 °	36.996773 ° -120.410739 °	21
DWR ID: DWR_NA0010_05_f_2012_21										
28	29.80	29.80		Animal Control	LS	M	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										

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	06/04/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
29	30.36	31.66		Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.010443 ° -120.426820 °	36.996772 ° -120.410739 °	22
DWR ID: DWR_NA0010_05_f_2012_22										
30	34.50	34.50		Encroachments	WS	M	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										

*** Location**

LS : Land Side
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**** Rating**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.64
End Levee Mile	0.64
Location	Land Side
Category	
Item	Trim / Thin Trees

Looking east at untrimmed trees on landward toe.

richard_s_20130610_154.JPG



Levee Mile Report Line	6
Start Levee Mile	2.81
End Levee Mile	2.86
Location	Land Side
Category	
Item	Trim / Thin Trees

Looking south at dense trees on landside slope.

richard_s_20130304_088.jpg



Levee Mile Report Line	6
Start Levee Mile	2.81
End Levee Mile	2.86
Location	Land Side
Category	
Item	Trim / Thin Trees

Looking south at trimmed trees on landward slope and toe.

richard_s_20130610_155.JPG



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	
Item	Encroachments

Looking south at unauthorized ramp on waterside slope.

richard_s_20130304_089.JPG



Levee Mile Report Line	7
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	
Item	Encroachments

Looking northwest at unauthorized ramp on waterside slope.

richard_s_20130304_090.JPG



Levee Mile Report Line	7
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	
Item	Encroachments

Looking northwest at unauthorized ramp on waterward slope.

richard_s_20130610_156.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	3.54
End Levee Mile	3.54
Location	Land Side
Category	
Item	Encroachments

Looking south at down tree limb on landside slope and toe.

richard_s_20130304_087.jpg



Levee Mile Report Line	11
Start Levee Mile	4.99
End Levee Mile	4.99
Location	Land Side
Category	
Item	Animal Control

Looking east at levee damage by livestock on landside slope.

richard_s_20130304_091.JPG



Levee Mile Report Line	25
Start Levee Mile	26.88
End Levee Mile	27.90
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

Looking south at typical view of levee crown.

richard_s_20130304_092.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**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	06/04/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	29.58
End Levee Mile	29.70
Location	Water Side
Category	
Item	Erosion / Bank Caving
Looking south at erosion caused by livestock on landside slope.	
richard_s_20130304_095.jpg	



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass				Left	36.38	06/05/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	36.34		Vegetation	LS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.275068 ° -120.825950 °	36.974400 ° -120.363898 °	12
DWR ID: DWR_NA0010_06_s_2013_12									
2	0.00	36.34		Vegetation	WS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.275068 ° -120.825950 °	36.974402 ° -120.363893 °	13
DWR ID: DWR_NA0010_06_s_2013_13									
3	0.00	36.34		Vegetation	CR Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Control vegetation on levee crown.	37.275057 ° -120.825958 °	36.974402 ° -120.363892 °	14 Y
DWR ID: DWR_NA0010_06_s_2013_14									
4	1.90	1.90		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									
5	2.25	2.25		Animal Control	LS Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.256805 ° -120.798040 °	37.256805 ° -120.798040 °	17 Y
DWR ID: DWR_NA0010_06_s_2013_17									
6	4.67	4.67		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									
7	4.72	4.72		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 fence post on landward slope.	37.243540 ° -120.760782 °	37.243540 ° -120.760782 °	10 Y
DWR ID: DWR_NA0010_06_s_2012_10									
8	5.83	5.83		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									
9	6.12	6.12		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									
10	6.15	6.15		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									
11	7.17	7.17		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									
12	9.81	11.03		Crown Surface / Depressions / Rutting	CR A/W Ma	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: Levee crown should be regraded due to excessive rutting.	37.200697 ° -120.692927 °	37.188106 ° -120.677684 °	6
DWR ID: DWR_NA0010_06_s_2012_6									
13	13.56	14.45		Encroachments	WS En	FE : Fence Inspector Comments: Electric fence on waterward shoulder.	37.171643 ° -120.650367 °	37.167813 ° -120.636337 °	15 Y
DWR ID: DWR_NA0010_06_s_2013_15									

*** Location**

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WS : Water Side
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass				Left	36.38	06/05/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
14	14.91	17.23		Crown Surface / Depressions / Rutting	LS A/W Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.163025 ° -120.630648 °	37.141161 ° -120.599867 °	4
DWR ID: DWR_NA0010_06_s_2012_4									
15	15.55	15.70		Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.158920 ° -120.620232 °	37.157217 ° -120.618915 °	124
DWR ID: DWR_NA0010_06_s_2012_124									
16	22.90	22.96		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.088663 ° -120.538193 °	37.087968 ° -120.537485 °	8
DWR ID: DWR_NA0010_06_s_2012_8									
17	24.50	24.93		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									
18	27.56	27.87		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									
19	28.62	28.62		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.030102 ° -120.469122 °	37.030102 ° -120.469122 °	19
DWR ID: DWR_NA0010_06_s_2012_19									
20	30.41	30.41		Encroachments	CR C En	PI : Pipe Inspector Comments: Landowner removed pipe.	37.025537 ° -120.440254 °	37.025537 ° -120.440254 °	11
DWR ID: DWR_NA0010_06_f_2012_11									
21	31.01	31.01		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									
22	32.99	32.99		Encroachments	WS M En	FE : Fence Inspector Comments: Landowner constructed a metal fence around slant pump without a permit. Check for permit.	36.995667 ° -120.412910 °	36.995667 ° -120.412910 °	123 Y
DWR ID: DWR_NA0010_06_s_2012_123									
23	35.27	36.16		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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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	06/05/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	36.34
Location	Crown
Category	
Item	Vegetation

Looking north at levee crown.

richard_s_20130611_187.JPG



Levee Mile Report Line	5
Start Levee Mile	2.25
End Levee Mile	2.25
Location	Land Side
Category	
Item	Animal Control

Looking north at rodent hole on landward slope.

richard_s_20130611_198.JPG



Levee Mile Report Line	7
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	
Item	Animal Control

Looking at typical rodent holes on landward slope.

richard_s_20130611_196.JPG



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	06/05/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	
Item	Animal Control

Looking at rodent hole along fence line on landward slope.

richard_s_20130611_197.JPG



Levee Mile Report Line	13
Start Levee Mile	13.56
End Levee Mile	14.45
Location	Water Side
Category	
Item	Encroachments

Looking north at electrical fence on waterward shoulder.

richard_s_20130611_195.JPG



Levee Mile Report Line	17
Start Levee Mile	24.50
End Levee Mile	24.93
Location	Land Side
Category	
Item	Slope Stability

Looking north at livestock erosion on landside slope.

richard_s_20130304_100.jpg



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	06/05/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	24.50
End Levee Mile	24.93
Location	Land Side
Category	
Item	Slope Stability

Looking north at livestock erosion on landward slope.

richard_s_20130611_189.JPG



Levee Mile Report Line	18
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	
Item	Slope Stability

Looking north at livestock erosion on landside shoulder and slope.

richard_s_20130304_098.jpg



Levee Mile Report Line	18
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	
Item	Slope Stability

Looking south at livestock erosion on landside shoulder and slope.

richard_s_20130304_099.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	06/05/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	
Item	Slope Stability
Looking north at livestock erosion on landward slope. (Spring 2013)	
richard_s_20130611_188.JPG	



Levee Mile Report Line	21
Start Levee Mile	31.01
End Levee Mile	31.01
Location	Land Side
Category	
Item	Animal Control
Looking at typical rodent hole on landside slope.	
richard_s_20130304_096.jpg	



Levee Mile Report Line	21
Start Levee Mile	31.01
End Levee Mile	31.01
Location	Land Side
Category	
Item	Animal Control
Looking west at rodent holes on landside slope and toe near fence line.	
richard_s_20130304_097.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	06/05/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	32.99
End Levee Mile	32.99
Location	Water Side
Category	
Item	Encroachments

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

richard_s_20130304_104.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Summer & Winter Inspections

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Lower San Joaquin Levee District

9	2.77	2.77	Encroachments	WS	M	GA : Garbage	37.253718 °	37.253718 °	6
				Ma		Inspector Comments: Old fence poles and concrete on waterward shoulder and slope should be removed.	-120.733290 °	-120.733290 °	Y
							DWR ID: DWR_NA0010_07_s_2013_6		

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	3.62
Location	Land Side
Category	
Item	Vegetation

Looking south at typical view of levee.

richard_s_20130610_159.JPG



Levee Mile Report Line	3
Start Levee Mile	0.11
End Levee Mile	2.57
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

Looking east at vegetation on levee crown.

richard_s_20130304_108.jpg



Levee Mile Report Line	3
Start Levee Mile	0.11
End Levee Mile	2.57
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

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

richard_s_20130304_109.JPG



*** Location**

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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**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	1.22
End Levee Mile	1.22
Location	Land Side
Category	
Item	Animal Control

Looking at east at active rodent holes on landside berm.

richard_s_20130304_105.JPG



Levee Mile Report Line	6
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	
Item	Animal Control

Looking northeast at landside slope damaged by livestock.

richard_s_20130304_106.jpg



Levee Mile Report Line	6
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	
Item	Animal Control

Looking southeast at landside slope and toe damage by livestock.

richard_s_20130304_107.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	
Item	Animal Control
Looking southeast at damage on landward toe.(Spring 2013)	
richard_s_20130610_157.JPG	



Levee Mile Report Line	6
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	
Item	Animal Control
Looking south at landward slope.	
richard_s_20130610_158.JPG	



Levee Mile Report Line	8
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Crown
Category	
Item	Animal Control
Looking at rodent hole on levee crown.	
richard_s_20130304_110.jpg	

*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Crown
Category	
Item	Animal Control

Looking at rodent hole on levee crown.

richard_s_20130304_111.jpg



Levee Mile Report Line	9
Start Levee Mile	2.77
End Levee Mile	2.77
Location	Water Side
Category	
Item	Encroachments

Looking south at old fence poles on waterward slope.

richard_s_20130610_160.JPG



*** Location**

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WS : Water Side
CR : Crown

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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Summer & Winter Inspections

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Lower San Joaquin Levee District

DWR ID: DWR_NA0010_08_s_2012_3

Page 1 of 4

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking west at vegetation on levee crown.	
richard_s_20130304_114.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking east at vegetation on levee crown.	
richard_s_20130304_115.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking east at un-graded levee crown.(Fall 2012)	
richard_s_20130304_116.JPG	



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.22
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking east at levee crown.	
richard_s_20130610_162.JPG	



Levee Mile Report Line	5
Start Levee Mile	1.38
End Levee Mile	1.38
Location	Land Side
Category	
Item	Animal Control
Looking west at rodent holes on landward slope.	
richard_s_20130610_163.JPG	



Levee Mile Report Line	7
Start Levee Mile	2.07
End Levee Mile	2.12
Location	Land Side
Category	
Item	Animal Control
Looking at typical rodent hole along the section.	
richard_s_20130304_112.jpg	



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	2.07
End Levee Mile	2.12
Location	Land Side
Category	
Item	Animal Control

Looking at typical rodent hole on landside slope near headwall.

richard_s_20130304_113.jpg



Levee Mile Report Line	8
Start Levee Mile	2.74
End Levee Mile	2.74
Location	Land Side
Category	
Item	Encroachments

Looking west at old fence poles on landward slope and toe.

richard_s_20130610_161.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass				Right	0.88	06/04/2013 06/04/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.40		Crown Surface / Depressions / Rutting	CR A/W Ma	C3	Add appropriate gravel or road base. Grade and compact.	37.220193 ° -120.712993 °	37.219950 ° -120.706498 °	2 Y
DWR ID: DWR_NA0010_09_s_2012_2										
2	0.00	0.88		Vegetation	WS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.220183 ° -120.712995 °	37.220030 ° -120.698250 °	3 Y
DWR ID: DWR_NA0010_09_s_2013_3										
3	0.00	0.88		Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.220182 ° -120.712993 °	37.220028 ° -120.698247 °	1 Y
DWR ID: DWR_NA0010_09_s_2013_1										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.88	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.40
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking north at levee crown.	
richard_s_20130304_117.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.88
Location	Water Side
Category	
Item	Vegetation
Looking at typical view of waterward slope.	
richard_s_20130610_166.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.88
Location	Land Side
Category	
Item	Vegetation
Looking at typical view of landward slope.	
richard_s_20130610_165.JPG	



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass				Left	0.82	06/04/2013 06/04/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.80		Crown Surface / Depressions / Rutting	CR A/W	Ma	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		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.217985 ° -120.711410 °	37.217983 ° -120.711412 °	3
DWR ID: DWR_NA0010_10_s_2013_3										
3	0.00	0.81		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.217980 ° -120.711418 °	37.219343 ° -120.698018 °	1 Y
DWR ID: DWR_NA0010_10_s_2013_1										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.82	06/04/2013 06/04/2013	Richard Willoughby

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

Looking south at typical view of levee.

richard_s_20130610_167.JPG



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass						Right	3.31	06/06/2013 06/06/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	3.31		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.202733 ° -120.755165 °	37.202302 ° -120.695245 °	2 Y
DWR ID: DWR_NA0010_11_s_2013_2										
2	0.00	3.31		Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.202733 ° -120.755163 °	37.202302 ° -120.695247 °	3 Y
DWR ID: DWR_NA0010_11_s_2013_3										
3	1.77	1.77		Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.202743 ° -120.723187 °	37.202743 ° -120.723187 °	1
DWR ID: DWR_NA0010_11_s_2012_1										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	06/06/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.31
Location	Land Side
Category	
Item	Vegetation

Looking west at typical view of landward slope.

richard_s_20130611_201.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	3.31
Location	Water Side
Category	
Item	Vegetation

Looking east at typical view of waterward slope.

richard_s_20130611_200.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 12 Mariposa Bypass				Left	3.33	06/06/2013 06/06/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	3.31		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	°	°	4
								°	°	
								DWR ID: DWR_NA0010_12_f_2012_4		
2	0.00	3.31		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Control the tumble weeds on landside and waterside slope.	37.200929 ° -120.755187 °	37.200945 ° -120.695179 °	2 Y
								DWR ID: DWR_NA0010_12_f_2012_2		
3	0.00	2.43		Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.	37.200929 ° -120.755187 °	37.200907 ° -120.711110 °	3 Y
								DWR ID: DWR_NA0010_12_f_2012_3		
4	2.33	2.33		Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.200907 ° -120.712978 °	37.200907 ° -120.712978 °	1
								DWR ID: DWR_NA0010_12_s_2012_1		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	06/06/2013 06/06/2013	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	3.31
Location	Land Side
Category	
Item	Vegetation

Looking at dense tumble weeds on landside and waterside slopes.

richard_s_20130304_118.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	3.31
Location	Land Side
Category	
Item	Vegetation

Looking west at typical view of landward slope.

richard_s_20130611_203.JPG



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	2.43
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

Looking west at vegetation on levee crown.

richard_s_20130611_202.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 13 Ash Slough				Right	1.28	06/05/2013 06/05/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.26		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	°	°	4
					Ma			°	°	Y
DWR ID: DWR_NA0010_13_f_2012_4										
2	0.00	1.28		Vegetation	CR	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.033758 °	°	7
					Ma			-120.442088 °	°	
DWR ID: DWR_NA0010_13_s_2013_7										
3	0.02	1.26		Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.033982 °	37.046320 °	1
					Ma			-120.441997 °	-120.428138 °	Y
DWR ID: DWR_NA0010_13_s_2012_1										
4	0.14	0.14		Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.035697 °	37.035697 °	3
					Ma			-120.441197 °	-120.441197 °	
DWR ID: DWR_NA0010_13_s_2012_3										
5	0.30	1.25		Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.037893 °	37.046269 °	2
					Ma			-120.440373 °	-120.428350 °	
DWR ID: DWR_NA0010_13_f_2012_2										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.28	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.26
Location	Land Side
Category	
Item	Vegetation

Looking east at typical view of levee.

richard_s_20130610_169.JPG



Levee Mile Report Line	3
Start Levee Mile	0.02
End Levee Mile	1.26
Location	Water Side
Category	
Item	Vegetation

Looking east at typical view of landside and waterside slopes.

richard_s_20130304_119.JPG



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	06/05/2013 06/05/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	1.25		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	°	°	4
								°	°	Y
DWR ID: DWR_NA0010_14_f_2012_4										
2	0.00	1.25		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.032379 °	37.045405 °	1
								-120.441265 °	-120.427750 °	Y
DWR ID: DWR_NA0010_14_f_2012_1										
3	0.00	1.25		Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.032379 °	37.045404 °	2
								-120.441265 °	-120.427749 °	
DWR ID: DWR_NA0010_14_f_2012_2										
4	0.08	0.08	Channels	Concrete Foundations	WS	M Ma	Inspector Comments: Erosion on downstream side of structure.	37.033473 °	37.033473 °	3
								-120.440802 °	-120.440802 °	Y
DWR ID: DWR_NA0010_14_s_2012_3										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.25
Location	Land Side
Category	
Item	Vegetation

Looking north at typical view of levee.

richard_s_20130610_170.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.25
Location	Water Side
Category	
Item	Vegetation

Looking west at typical view of tumble weeds on levee slopes.

richard_s_20130304_120.JPG



Levee Mile Report Line	4
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Channels
Item	Concrete Foundations

Looking south at erosion in channel near drop structure.

richard_s_20130304_121.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 15 Berenda Slough						Right	2.03	06/05/2013 06/05/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.99		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	°	°	1
					Ma			°	°	Y
DWR ID: DWR_NA0010_15_f_2012_1										
2	0.00	1.99		Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	36.996547 °	36.996587 °	11
					Ma			-120.410220 °	-120.374503 °	Y
DWR ID: DWR_NA0010_15_s_2012_11										
3	0.00	1.99		Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	36.996565 °	36.996587 °	3
					Ma		Inspector Comments: Control growth on levee crown.	-120.409607 °	-120.374503 °	
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 2013

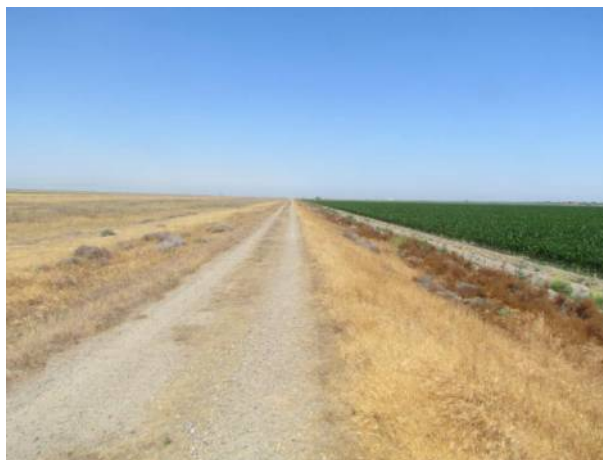
Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.99
Location	Land Side
Category	
Item	Vegetation

Looking east at typical view of levee.

richard_s_20130610_171.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.99
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

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

richard_s_20130610_172.JPG



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough				Left	1.98	06/05/2013 06/05/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.42		Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	36.995388 ° -120.408738 °	36.995447 ° -120.383467 °	14 Y
DWR ID: DWR_NA0010_16_s_2012_14										
2	0.00	1.97		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	° °	° °	2 Y
DWR ID: DWR_NA0010_16_f_2012_2										
3	0.00	1.97		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Wild growth on landside, waterside and crown of levee.	36.995378 ° -120.408866 °	36.995488 ° -120.373568 °	1 Y
DWR ID: DWR_NA0010_16_s_2012_1										
4	1.77	1.77		Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	36.995488 ° -120.377152 °	36.995488 ° -120.377152 °	3
DWR ID: DWR_NA0010_16_s_2012_3										

*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.42
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking west (downstream) at unwanted vegetation on levee crown.	
richard_s_20130304_127.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.42
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking west at vegetation on levee crown.	
richard_s_20130610_173.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.97
Location	Water Side
Category	
Item	Vegetation
Looking east at typical view of waterward slope.	
richard_s_20130610_175.JPG	

*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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+ Issue Type

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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	1.97
Location	Land Side
Category	
Item	Vegetation
Looking east (upstream) at unwanted vegetation on both levee slope and levee crown.	
richard_s_20130304_125.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	1.97
Location	Land Side
Category	
Item	Vegetation
Looking west at typical view dense vegetation on waterside and landside slopes.	
richard_s_20130304_126.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	1.97
Location	Land Side
Category	
Item	Vegetation
Looking east at typical view of landward slope.	
richard_s_20130610_174.JPG	



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass				Right	16.09	06/05/2013 06/05/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	5.77		Crown Surface / Depressions / Rutting	CR Ma	M C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	36.976430 ° -120.374748 °	36.908282 ° -120.330995 °	7 Y
DWR ID: DWR_NA0010_17_s_2012_7									
2	0.03	16.09		Vegetation	WS Ma	M V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove tumble weeds on landside and waterside slopes.	36.976442 ° -120.374297 °	36.774435 ° -120.283787 °	2 Y
DWR ID: DWR_NA0010_17_f_2012_2									
3	0.03	16.09		Vegetation	LS Ma	M V1 : Control annual grass and weeds on the levee slopes and easements.	36.976442 ° -120.374297 °	36.774435 ° -120.283787 °	3 Y
DWR ID: DWR_NA0010_17_f_2012_3									
4	4.69	4.69		Encroachments	CR Ma	M 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	5.75	5.90		Animal Control	LS Ma	M A1 : Exterminate rodents and backfill and compact or grout burrows.	36.908605 ° -120.331112 °	36.906507 ° -120.330353 °	8 Y
DWR ID: DWR_NA0010_17_s_2012_8									
6	6.51	6.60		Animal Control	LS Ma	M 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		Animal Control	LS Ma	M 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		Animal Control	LS Ma	M 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**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	5.77
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking south at typical view of levee crown.	
richard_s_20130610_176.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	16.09
Location	Water Side
Category	
Item	Vegetation
Looking south at typical view of waterward slope.	
richard_s_20130610_177.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.03
End Levee Mile	16.09
Location	Land Side
Category	
Item	Vegetation
Looking south at typical view of landward slope.	
richard_s_20130610_178.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	06/05/2013 06/05/2013	Richard Willoughby

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

Looking south at unauthorized steel pipe across levee crown.

richard_s_20130304_128.jpg



Levee Mile Report Line	5
Start Levee Mile	5.75
End Levee Mile	5.90
Location	Land Side
Category	
Item	Animal Control

Looking at several rodent holes on landside slope.

richard_s_20130304_131.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass						Left	15.33	06/05/2013 06/05/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	15.28		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.974110 ° -120.363215 °	36.774050 ° -120.285515 °	2 Y
DWR ID: DWR_NA0010_18_s_2012_2										
2	0.00	15.28		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.974141 ° -120.363274 °	36.774045 ° -120.285515 °	5 Y
DWR ID: DWR_NA0010_18_f_2012_5										
3	8.04	8.04		Encroachments	WS	C Ma	GA : Garbage	36.865062 ° -120.317977 °	36.865062 ° -120.317977 °	4
DWR ID: DWR_NA0010_18_s_2012_4										
4	11.86	13.15		Vegetation	LS A/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense tumble weed on landside and waterside shoulder and slope.	36.815400 ° -120.305080 °	36.797353 ° -120.308560 °	1 Y
DWR ID: DWR_NA0010_18_s_2012_1										
5	13.55	15.12		Crown Surface / Depressions / Rutting	LS	M Ma	C2 : Repair depressions or ruts in the crown or slope.	36.792861 ° -120.304907 °	36.776058 ° -120.287111 °	3
DWR ID: DWR_NA0010_18_f_2012_3										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.33	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	15.28
Location	Water Side
Category	
Item	Vegetation

Looking north at typical view of waterward slope.

richard_s_20130610_186.JPG



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	15.28
Location	Land Side
Category	
Item	Vegetation

Looking north at typical view of landward slope.

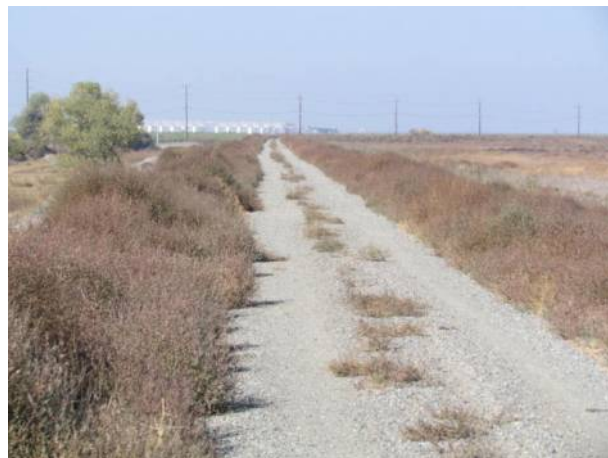
richard_s_20130610_185.JPG



Levee Mile Report Line	4
Start Levee Mile	11.86
End Levee Mile	13.15
Location	Land Side
Category	
Item	Vegetation

Looking north at typical tumble weeds on levee slopes.

richard_s_20130304_132.JPG



*** Location**

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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**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	06/04/2013 06/04/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	5.50		Vegetation	WS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.205967 ° -120.697025 °	37.272283 ° -120.741770 °	11
DWR ID: DWR_NA0010_22A_s_2013_11									
2	0.00	5.50		Vegetation	LS Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.205975 ° -120.697032 °	37.272285 ° -120.741770 °	4
DWR ID: DWR_NA0010_22A_s_2013_4									
3	0.10	0.10		Erosion / Bank Caving	WSA/W Ma	E1 : Note and monitor erosion site. Inspector Comments: Erosion located next to screw gate was repaired by district.	37.206985 ° -120.696225 °	37.206985 ° -120.696225 °	7 Y
DWR ID: DWR_NA0010_22A_s_2012_7									
4	0.68	0.88		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		Animal Control	WSA/W 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		Trim / Thin Trees	WSA/W 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	4.25	4.32		Crown Surface / Depressions / Rutting	CRA/W Ma	C2 : Repair depressions or ruts in the crown or slope.	37.259822 ° -120.725557 °	37.259823 ° -120.725558 °	52
DWR ID: DWR_NA0010_22A_s_2012_52									
8	4.68	4.68	Channels	Encroachments	WS Ma	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									
9	4.80	4.86		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									
10	4.81	4.84		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									
11	5.07	5.10		Crown Surface / Depressions / Rutting	CRA/W Ma	C2 : Repair depressions or ruts in the crown or slope. 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									
12	5.09	5.09		Crown Surface / Depressions / Rutting	CRA/W Ma	C2 : Repair depressions or ruts in the crown or slope.	37.267903 ° -120.736878 °	37.267903 ° -120.736878 °	57
DWR ID: DWR_NA0010_22A_s_2012_57									

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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	06/04/2013 06/04/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	5.15	5.20		Animal Control	WS	M	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion caused by livestock on waterside toe.	37.268492 ° -120.737493 °	37.269133 ° -120.738208 °	6 Y

DWR ID: DWR_NA0010_22A_s_2012_6

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	
Item	Erosion / Bank Caving
Looking north at erosion on waterside toe near screw gate.	
richard_s_20130304_141.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	
Item	Erosion / Bank Caving
Looking south at erosion near screw gate. (Fall 2012)	
richard_s_20130304_142.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	
Item	Erosion / Bank Caving
Looking south at repaired erosion near screw gate on waterward slope.	
richard_s_20130610_168.JPG	



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	06/04/2013 06/04/2013	Richard Willoughby

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

Looking northeast at animal erosion on waterside slope.

richard_s_20130304_135.jpg



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

Looking south at animal erosion on waterside slope.

richard_s_20130304_136.jpg



Levee Mile Report Line	8
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_20130304_137.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking northeast at dilapidated bridge across canal.

richard_s_20130304_138.jpg



Levee Mile Report Line	9
Start Levee Mile	4.80
End Levee Mile	4.86
Location	Water Side
Category	
Item	Animal Control

Looking north at waterside erosion from livestock.

richard_s_20130304_139.jpg



Levee Mile Report Line	11
Start Levee Mile	5.07
End Levee Mile	5.10
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

Looking south at rutting on levee crown.

richard_s_20130304_143.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	06/04/2013 06/04/2013	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	5.15
End Levee Mile	5.20
Location	Water Side
Category	
Item	Animal Control

Looking north at livestock erosion along waterside slope and toe.

richard_s_20130304_140.jpg



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River				Right	10.25	06/05/2013 06/05/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.01	10.24		Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.774353 ° -120.283665 °	36.814723 ° -120.168857 °	4
DWR ID: DWR_NA0010_23_s_2013_4									
2	0.03	10.24		Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.774150 ° -120.283377 °	36.814715 ° -120.168857 °	8 Y
DWR ID: DWR_NA0010_23_f_2012_8									
3	1.16	1.28		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
DWR ID: DWR_NA0010_23_s_2012_1									
4	1.21	1.21		Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	36.772973 ° -120.264768 °	36.772973 ° -120.264768 °	6
DWR ID: DWR_NA0010_23_s_2013_6									
5	1.53	1.53		Slope Stability	LS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	36.772035 ° -120.259560 °	36.772035 ° -120.259560 °	14 Y
DWR ID: DWR_NA0010_23_f_2012_14									
6	1.56	1.75		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									
7	2.13	2.42		Slope Stability	WS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Several damaged sites within this reach.	36.775507 ° -120.251672 °	36.774423 ° -120.246993 °	16 Y
DWR ID: DWR_NA0010_23_s_2013_16									
8	2.85	2.85		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									
9	3.30	3.30		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									
10	3.45	3.45		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									
11	4.14	4.14		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									
12	4.46	4.46		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									
13	5.23	5.23		Encroachments	WSA/W Ma	MA : Material Inspector Comments: Sand pile in levee channel over three feet high. Pile is too close to levee.	36.791400 ° -120.214222 °	36.791400 ° -120.214222 °	7 Y
DWR ID: DWR_NA0010_23_s_2012_7									
14	5.69	5.90		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									

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River				Right	10.25	06/05/2013 06/05/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	7.84	8.08		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
DWR ID: DWR_NA0010_23_s_2012_13										
16	7.84	8.08		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
DWR ID: DWR_NA0010_23_s_2012_12										
17	8.48	8.48		Slope Stability	WS M Ma	S3	Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Waterward slope has been degraded due to vehicle traffic.	36.793717 ° -120.178997 °	36.793717 ° -120.178997 °	17 Y
DWR ID: DWR_NA0010_23_s_2013_17										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	10.24
Location	Water Side
Category	
Item	Vegetation

Looking south at tumble weeds on levee slopes.

richard_s_20130304_149.JPG



Levee Mile Report Line	5
Start Levee Mile	1.53
End Levee Mile	1.53
Location	Land Side
Category	
Item	Slope Stability

Looking north at slope damage by vehicle traffic.

richard_s_20130304_153.JPG



Levee Mile Report Line	6
Start Levee Mile	1.56
End Levee Mile	1.75
Location	Land Side
Category	
Item	Vegetation

Looking south at dense vegetation on landside slope.

richard_s_20130304_144.JPG



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	1.56
End Levee Mile	1.75
Location	Land Side
Category	
Item	Vegetation

Looking south at typical view of landward slope.

richard_s_20130610_179.JPG



Levee Mile Report Line	7
Start Levee Mile	2.13
End Levee Mile	2.42
Location	Water Side
Category	
Item	Slope Stability

Looking south at waterward slope damage by vehicle traffic

richard_s_20130610_180.JPG



Levee Mile Report Line	8
Start Levee Mile	2.85
End Levee Mile	2.85
Location	Land Side
Category	
Item	Vegetation

Looking south at elderberry on landside toe and berm.

richard_s_20130304_154.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	
Item	Vegetation
Looking south at elderberry on landside toe and berm.	
richard_s_20130304_145.jpg	



Levee Mile Report Line	10
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	
Item	Vegetation
Looking south at elderberry on landside toe and berm.	
richard_s_20130304_150.jpg	



Levee Mile Report Line	11
Start Levee Mile	4.14
End Levee Mile	4.14
Location	Land Side
Category	
Item	Vegetation
Looking south at elderberry on landside toe and berm.	
richard_s_20130304_151.jpg	



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

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	4.46
End Levee Mile	4.46
Location	Land Side
Category	
Item	Vegetation

Looking south at elderberry on landside toe and berm.

richard_s_20130304_152.jpg



Levee Mile Report Line	13
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	
Item	Encroachments

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

richard_s_20130304_147.jpg



Levee Mile Report Line	13
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	
Item	Encroachments

Looking southwest at de-graded sandpile in channel.

richard_s_20130304_148.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	5.69
End Levee Mile	5.90
Location	Water Side
Category	
Item	Animal Control

Looking at several rodent holes on landside slope.

richard_s_20130304_146.jpg



Levee Mile Report Line	17
Start Levee Mile	8.48
End Levee Mile	8.48
Location	Water Side
Category	
Item	Slope Stability

Looking southwest at waterward slope degraded due to vehicle traffic.

richard_s_20130610_181.JPG



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

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River				Left	8.34	06/05/2013 06/05/2013	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	8.34		Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.772840 ° -120.285153 °	36.778207 ° -120.184260 °	5 Y
DWR ID: DWR_NA0010_24_s_2013_5									
2	0.02	8.34		Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	36.772940 ° -120.285206 °	36.778207 ° -120.184235 °	1 Y
DWR ID: DWR_NA0010_24_f_2012_1									
3	0.76	1.85		Vegetation	LS A/W Ma	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	0.82	0.82		Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	36.766775 ° -120.278757 °	36.766775 ° -120.278757 °	6
DWR ID: DWR_NA0010_24_s_2013_6									
5	3.46	3.46		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: One of several rodent holes on landward slope.	36.769345 ° -120.238370 °	36.769345 ° -120.238370 °	7 Y
DWR ID: DWR_NA0010_24_s_2012_7									
6	5.39	6.46		Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	36.782337 ° -120.222930 °	36.789063 ° -120.207438 °	2
DWR ID: DWR_NA0010_24_s_2012_2									
7	6.33	6.33		Encroachments	WS M En	PR : Prunings Inspector Comments: Pruning pile in channel.	36.788155 ° -120.209655 °	36.788155 ° -120.209655 °	3 Y
DWR ID: DWR_NA0010_24_s_2012_3									

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.34	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	8.34
Location	Water Side
Category	
Item	Vegetation

Looking north at typical view of waterward slope.

richard_s_20130610_182.JPG



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	8.34
Location	Land Side
Category	
Item	Vegetation

Looking north at tumble weeds on landside and waterside slopes.

richard_s_20130304_155.JPG



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	8.34
Location	Land Side
Category	
Item	Vegetation

Looking north at typical view of landward slope.

richard_s_20130610_183.JPG



*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.34	06/05/2013 06/05/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	3.46
End Levee Mile	3.46
Location	Land Side
Category	
Item	Animal Control

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

richard_s_20130610_184.JPG



Levee Mile Report Line	7
Start Levee Mile	6.33
End Levee Mile	6.33
Location	Water Side
Category	
Item	Encroachments

Looking north at prunings on waterside berm.

richard_s_20130304_156.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Lower San Joaquin Levee District

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

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 25 Salt Slough				Right	2.47	06/07/2013 06/07/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location *	Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	2.47		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.296102 ° -120.880725 °	37.271198 ° -120.866635 °	2 Y
DWR ID: DWR_NA0010_25_s_ 2013_2										
2	0.00	2.47		Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control weeds on levee crown.	37.296117 ° -120.880724 °	37.271193 ° -120.866633 °	8 Y
DWR ID: DWR_NA0010_25_s_ 2012_8										
3	0.00	2.47		Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.296102 ° -120.880720 °	37.271197 ° -120.866635 °	3 Y
DWR ID: DWR_NA0010_25_s_ 2013_3										
4	0.00	1.32		Vegetation	LS A/W	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove tumble weeds from landside and waterside slope.	37.296042 ° -120.880736 °	37.281675 ° -120.874762 °	1 Y
DWR ID: DWR_NA0010_25_f_ 2012_1										

*** Location**

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WS : Water Side
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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.47	06/07/2013 06/07/2013	Richard Willoughby

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

Looking west at typical view of landward slope.

richard_s_20130611_213.JPG



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

Looking north at vegetation on levee crown.

richard_s_20130611_212.JPG



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Water Side
Category	
Item	Vegetation

Looking east at typical view of waterward slope.

richard_s_20130611_214.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.47	06/07/2013 06/07/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	1.32
Location	Land Side
Category	
Item	Vegetation

Looking west at typical view of tumble weeds on levee slope.

richard_s_20130304_157.JPG



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