

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

Reclamation District No. 2098 Cache and Haas Slough

	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

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 01 Yolo Bypass			Right	3.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/23/2013 - 04/23/2013			
DWR Inspector	Herman Phillips			
Accompanied By	Mike Hardesty RD 2098			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Yolo Bypass				Right	3.58	04/23/2013 04/23/2013	Herman Phillips	

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1				Operations & Maintenance Manuals	LS	A Ma		°	°	13
DWR ID: DWR_RD2098_01_s_2012_13										
2				Emergency Supplies & Equipment	LS	A Ma		°	°	14
DWR ID: DWR_RD2098_01_s_2012_14										
3				Flood Preparedness & Training	LS	A Ma		°	°	15
DWR ID: DWR_RD2098_01_s_2012_15										
4	0.00	0.00		Vegetation	LS	A Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.329118 ° -121.694060 °	38.329118 ° -121.694060 °	7 Y
DWR ID: DWR_RD2098_01_s_2012_7										
5	0.57	0.59		Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.320853 ° -121.694002 °	38.320564 ° -121.694002 °	16
DWR ID: DWR_RD2098_01_s_2012_16										
6	0.61	0.63		Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.320979 ° -121.694029 °	38.319984 ° -121.694001 °	17
DWR ID: DWR_RD2098_01_s_2012_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

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.58	04/23/2013 04/23/2013	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	
Item	Vegetation
RD 2098 Looking downstream from levee mile 0.00 both slopes and crown roadway in view. Photo taken 4-23-2013.	
phillips_s_20130514_427.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

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 01A Cross Levee			Right	0.55
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/23/2013 - 04/23/2013			
DWR Inspector	Herman Phillips			
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.55	04/23/2013 04/23/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.32		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.277487 ° -121.696207 °	38.276445 ° -121.701725 °	1 Y
DWR ID: DWR_RD2098_01A_s_2013_1										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.55	04/23/2013 04/23/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.32
Location	Land Side
Category	
Item	Vegetation

RD 2098 Unit 1a looking downstream from levee mile 0.00 landside slope. Photo taken 4-23-2013.

phillips_s_20130514_428.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

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	2.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/23/2013 - 04/23/2013			
DWR Inspector	Herman Phillips			
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough						Left	2.01	04/23/2013 04/23/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	5.29	5.29		Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.275706 ° -121.705698 °	38.275706 ° -121.705698 °	1 Y
DWR ID: DWR_RD2098_02_s_2013_1										
2	5.29	7.17		Vegetation	CR	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.275706 ° -121.705698 °	38.292990 ° -121.723502 °	4
DWR ID: DWR_RD2098_02_s_2013_4										
3	5.31	5.49		Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.275923 ° -121.705940 °	38.278053 ° -121.707833 °	2
DWR ID: DWR_RD2098_02_s_2013_2										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	2.01	04/23/2013 04/23/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	5.29
End Levee Mile	5.29
Location	Land Side
Category	
Item	Vegetation
RD 2098 Looking downstream from levee mile 5.29 at waterward slope. Photo taken 4-23-2013.	
phillips_s_20130514_429.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 03 Haas Slough			Right	1.89
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/23/2013 - 04/23/2013			
DWR Inspector	Herman Phillips			
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough				Right	1.89	04/23/2013 04/23/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	7.30	9.19		Vegetation	WS	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.294198 ° -121.725085 °	38.315638 ° -121.739715 °	3 Y
DWR ID: DWR_RD2098_03_s_2012_3										
2	7.33	7.33	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011 - Large vertical erosion pockets and bank slumping. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: HAS_7-9_L]	38.299606 ° -121.728621 °	38.294858 ° -121.725433 °	7
DWR ID: DWR_RD2098_03_s_2013_7										
3	7.40	7.54		Slope Stability	LS	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	38.295513 ° -121.725776 °	38.296799 ° -121.727510 °	6
DWR ID: DWR_RD2098_03_s_2013_6										
4	7.41	7.41		Slope Stability	LS	M	S1 : Repair slope instability.	38.295542 ° -121.725816 °	38.295636 ° -121.725909 °	5
DWR ID: DWR_RD2098_03_s_2013_5										
5	7.50	7.61		Slope Stability	LS	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: There is erosion on waterside covered by arundo This is not a new site. Monitor but it appears to be stable at this time. 4-23-2013.	38.295930 ° -121.727043 °	38.298142 ° -121.739715 °	4 Y
DWR ID: DWR_RD2098_03_s_2013_4										

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Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.89	04/23/2013 04/23/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	7.30
End Levee Mile	9.19
Location	Water Side
Category	
Item	Vegetation

RD 2098 Unit 3 standing on waterside slope looking downstream from levee mile 7.30. Photo taken 4-23-2013.

phillips_s_20130514_430.JPG



Levee Mile Report Line	5
Start Levee Mile	7.50
End Levee Mile	7.61
Location	Land Side
Category	
Item	Slope Stability

RD 2098 Unit 3 landside slope erosion levee mile 7.50-7.61. Photo taken 4-23-2013.

phillips_s_20130514_432.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 04 Back Levee			Left	2.93
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/23/2013 - 04/23/2013			
DWR Inspector	Herman Phillips			
Accompanied By				

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Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2098 Cache and Haas Slough

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee						Left	2.93	04/23/2013 04/23/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	9.15	10.89		Vegetation	WS	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.316093 ° -121.740144 °	38.340449 ° -121.740796 °	1 Y
								DWR ID: DWR_RD2098_04_s_2013_1		
2	9.44	9.44	Supplemental	USACE Erosion Survey	WS	C	Inspector Comments: 2011 - Several scallops of erosion. Erosion primarily due to the weight of cattle on the slope. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: HAS_9-7_L]	38.324587 ° -121.740254 °	38.320240 ° -121.740183 °	4
								DWR ID: DWR_RD2098_04_s_2013_4		
3	9.82	10.02		Vegetation	WS	C	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.325251 ° -121.740104 °	38.324998 ° -121.740136 °	2
								DWR ID: DWR_RD2098_04_s_2013_2		
4	9.83	10.01		Vegetation	LS	C	V1 : Control annual grass and weeds on the levee slopes and easements.	38.325289 ° -121.740104 °	38.327656 ° -121.740646 °	12
								DWR ID: DWR_RD2098_04_s_2013_12		
5	10.65	11.49		Vegetation	LS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.336853 ° -121.740823 °	38.342794 ° -121.740837 °	3
								DWR ID: DWR_RD2098_04_s_2013_3		

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Levee Inspections**

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Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.93	04/23/2013 04/23/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	9.15
End Levee Mile	10.89
Location	Water Side
Category	
Item	Vegetation
RD 2098 Unit 4 looking downstream waterside slope. Photo taken 4-23-2013.	
phillips_s_20130514_431.JPG	



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