

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2014 Levee Maintenance Deficiency Summary Report**

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

**Sacramento River Basin**

<b>RD2098</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2098 Cache and Haas Slough</b>	<b>U</b>	<b>10.91</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.90	1.86	9.34	85.64%				
Encroachments					0.01			
Slope Stability	0.29	0.01	0.33	3.03%				
Erosion / Bank Caving	0.21		0.21	1.93%				
Repair Gates		0.02	0.08	0.73%				
<i>Supplemental</i>								
USACE Erosion Survey	0.39		0.39	3.58%				
DWR UCIP Field Study					0.10	0.04		
<i>LMA Totals:</i>	2.79	1.89	10.35	94.90%	0.11	0.04	0.00	0.00
<b>Unit No. 01 Yolo Bypass RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2098</b>	<b>A</b>	<b>3.60</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
<b>Unit No. 01A Cross Levee RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2098</b>	<b>A</b>	<b>0.53</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
<b>Unit No. 02 Cache Slough LB</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
<b>RD2098</b>	<b>M *</b>	<b>1.89</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Slope Stability		0.01	0.04	2.11%				
Repair Gates		0.02	0.08	4.22%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.05			
<i>Unit Totals:</i>	0.00	0.03	0.12	6.33% *	0.05	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2014 Levee Maintenance Deficiency Summary Report**

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

**Sacramento River Basin (cont.)**

Unit No. 03 Haas Slough RB		Overall Unit Rating	Total Unit Miles						
RD2098		<b>U</b>	<b>1.94</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	1.89	1.86	9.33	481.87%					
Encroachments					0.01				
Slope Stability	0.29		0.29	14.98%					
Erosion / Bank Caving	0.16		0.16	8.26%					
<i>Supplemental</i>									
USACE Erosion Survey	0.39		0.39	20.14%					
DWR UCIP Field Study						0.02			
<i>Unit Totals:</i>	2.73	1.86	10.17	525.25%	0.01	0.02	0.00	0.00	

  

Unit No. 04 Back Levee LB		Overall Unit Rating	Total Unit Miles						
RD2098		<b>A</b>	<b>2.95</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.01		0.01	0.34%					
Erosion / Bank Caving	0.05		0.05	1.69%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.05	0.02			
<i>Unit Totals:</i>	0.06	0.00	0.06	2.03%	0.05	0.02	0.00	0.00	

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2014 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

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

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

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

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

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2014 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 01 Yolo Bypass			Right	3.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/13/2014 - 05/13/2014		10/13/2014 - 10/13/2014	
DWR Inspector	Herman Phillips		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:

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

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

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

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

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	10/13/2014 10/13/2014	Herman Phillips

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2098_01_f_2014_3				
Action/Comments					
Inspector Comments: RD 2098 Has on file O+M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2098_01_f_2014_4				
Action/Comments					
Inspector Comments: RD 2098 Has Emergency Supplies in storage along with Equipment.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2098_01_f_2014_5				
Action/Comments					
Inspector Comments: RD 2098 Has their team well prepared for Flood Fight.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	10/13/2014 10/13/2014	Herman Phillips

LM Start	0.02	Rating **	A	Issue No.	1
LM End	3.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.328788 °	38.277411 °
				-121.694072 °	-121.696281 °
DWR ID	DWR_RD2098_01_f_2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Goats were used to remove the vegetation from the water ward slope.					

No Photos

LM Start	0.02	Rating **	A	Issue No.	2
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.328788 °	38.329117 °
				-121.694072 °	-121.694060 °
DWR ID	DWR_RD2098_01_f_2014_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2014\_RD2098\_244\_2\_20141126\_00001.jpg



RD 2098 Unit 1 looking downstream from landside slope. Goats were used to remove vegetation.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2014 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 01A Cross Levee			Right	0.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/14/2014 - 05/14/2014		10/13/2014 - 10/13/2014	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.53	10/13/2014 10/13/2014	Herman Phillips

LM Start	0.01	Rating **	A	Issue No.	4
LM End	0.53	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277388 °	38.275847 °
				-121.696465 °	-121.705833 °
DWR ID	DWR_RD2098_01A_s_2014_4				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	0.02	Rating **	A	Issue No.	3
LM End	0.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277411 °	38.275735 °
				-121.690280 °	-121.705765 °
DWR ID	DWR_RD2098_01A_f_2014_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Waterside levee slope has been mowed.					

Photo 1 of 1 : FA\_2014\_RD2098\_245\_3\_20141126\_00002.jpg



Looking downstream from waterside levee mile 0.02 to 0.55.

LM Start	0.02	Rating **	A	Issue No.	2
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277325 °	38.275735 °
				-121.696650 °	-121.705765 °
DWR ID	DWR_RD2098_01A_f_2014_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Goats has cleared all vegetation from landward levee slope.					

Photo 1 of 1 : FA\_2014\_RD2098\_245\_2\_20141126\_00001.jpg



Looking downstream from Unit 1A RD 2098 Landside slope.

**\* 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**

**Fall 2014 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	1.89
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	05/14/2014 - 05/14/2014		10/13/2014 - 10/13/2014	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	10/13/2014 10/13/2014	Herman Phillips

LM Start	5.29	Rating **	A	Issue No.	15
LM End	7.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.275706 °	38.294171 °
				-121.705698 °	-121.725037 °
DWR ID	DWR_RD2098_02_f_2014_15				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Goats has done a great job of removing the vegetation.					

Photo 1 of 1 : FA\_2014\_RD2098\_246\_15\_20141126\_00003.jpg



RD 2098 Unit 2 looking downstream from waterside slope. Goats have removed vegetation from the slope.

LM Start	5.74	Rating **	M	Issue No.	2
LM End	5.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.280788 °	38.280788 °
				-121.709617 °	-121.709617 °
DWR ID	DWR_RD2098_02_f _ 2014_2				
Action/Comments					
Inspector Comments: FS_ID:32287					
EP_NO: 10172					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly. Slide gate appears to be open and should be closed for the season.					
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 22.8 feet below the crown. Two cutoff walls around pipe at levee shoulders. Slide gate in 36-inch CMP riser on waterward slope. Flap gate and concrete "U" headwall on landward end. This pipe was retained under ABO No. 10172 (1974).					
FS Date: 3/18/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	10/13/2014 10/13/2014	Herman Phillips

LM Start	5.79	Rating **	C	Issue No.	6
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.281747 °	38.282929 °
				-121.709946 °	-121.710789 °
DWR ID	DWR_RD2098_02_s_2014_6				
Action/Comments					
Repair slope instability. Inspector Comments: This is an old erosion site, no additional movement was noted at this location, the area is rocked.R6c2ed by CORE.					

No Photos

LM Start	6.13	Rating **	C	Issue No.	7
LM End	6.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.284350 °	38.284350 °
				-121.714657 °	-121.714657 °
DWR ID	DWR_RD2098_02_s_2014_7				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	6.23	Rating **	C	Issue No.	9
LM End	6.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285501 °	38.289931 °
				-121.715831 °	-121.716770 °
DWR ID	DWR_RD2098_02_s_2014_9				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	10/13/2014 10/13/2014	Herman Phillips

LM Start	6.71	Rating **	U	Issue No.	4
LM End	6.71	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.289452 °	38.289452 °
				-121.716814 °	-121.716814 °
DWR ID	DWR_RD2098_02_f_2013_4				
Action/Comments					
Inspector Comments: This gate is damaged and requires replacement.					

Photo 1 of 1 : FA\_2014\_RD2098\_246\_4\_20141008\_00001.jpg



This gate has no hinges. No new photo; no repairs done.

LM Start	6.72	Rating **	U	Issue No.	10
LM End	6.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.292076 °	38.292076 °
				-121.715792 °	-121.715792 °
DWR ID	DWR_RD2098_02_s_2014_10				
Action/Comments					
Repair slope instability. Inspector Comments: RD 2098 will send out crew to inspect site and make repairs as needed.					

Photo 1 of 1 : FA\_2014\_RD2098\_246\_10\_20141008\_00002.jpg



There is some slope damage at this location under this concrete. No new photo; RD will send crew out to check area out.

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CR : Crown

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

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	10/13/2014 10/13/2014	Herman Phillips

LM Start	6.73	Rating **	M	Issue No.	8
LM End	6.73	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.292194 °	38.292194 °
				-121.715853 °	-121.715853 °
DWR ID	DWR_RD2098_02_f_2014_8				
Action/Comments					
Inspector Comments: FS_ID:33784 EP_NO: 10172 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Headwalls on WS toe failing at outlet. It is unclear if these were permanent installations or something that was installed as a temporary fix. FIELD_STRUCT_DESC: 1 of 2: 48-inch CM drainpipe through the levee, 29.0 feet below the crown. Two slide gates in 7-foot diameter CMP riser on waterward slope. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.75). This pipe was retained under ABO No. 10172 (1974). FS Date: 3/18/2014					

No Photos

LM Start	6.73	Rating **	M	Issue No.	12
LM End	6.73	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.292234 °	38.292234 °
				-121.715875 °	-121.715875 °
DWR ID	DWR_RD2098_02_f_2014_12				
Action/Comments					
Inspector Comments: FS_ID:32285					
EP_NO: 10172					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Headwalls at WS toe failing. It is uncertain if these retaining walls were a permanent fixture or a temporary fix that failed.					
FIELD_STRUCT_DESC: 2 of 2: 48-inch CM drainpipe through the levee, 29.0 feet below the crown. Two slidegates in a 7-foot diameter					
CMP riser on WS shoulder (USACE-1962). This entry matches the					
Drainage or Irrigation Structure referenced in O&M manual (HLM 6.75).					
This pipe was retained under ABO No. 10172 (1974).					
FS Date: 3/18/2014					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	10/13/2014 10/13/2014	Herman Phillips

LM Start	6.74	Rating **	C	Issue No.	11
LM End	7.17	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292365 °	38.293009 °
				-121.715997 °	-121.723461 °
DWR ID	DWR_RD2098_02_s_2014_11				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	7.13	Rating **	U	Issue No.	5
LM End	7.13	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.292962 °	38.292962 °
				-121.723312 °	-121.723312 °
DWR ID	DWR_RD2098_02_f_2013_5				
Action/Comments					
Inspector Comments: Gate off hinge, repair as needed.					

No Photos

LM Start	7.21	Rating **	M	Issue No.	13
LM End	7.21	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.293139 °	38.293139 °
				-121.724174 °	-121.724174 °
DWR ID	DWR_RD2098_02_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:32290 EP_NO: 10171 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so it should be done so properly. Walkway to gate valve actuator on WS slope is in disrepair and does not appear to be safe for use. FIELD_STRUCT_DESC: 36-inch CM drain/irrigation pipe through the levee, 23.0 feet below the crown. Walkway to slide gate on waterward end. Slide gate at LS toe (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.23). This pipe was retained under ABO No. 10171 (1974). FS Date: 3/18/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	10/13/2014 10/13/2014	Herman Phillips

LM Start	7.27	Rating **	M	Issue No.	14
LM End	7.27	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.293741 °	38.293741 °
				-121.724787 °	-121.724787 °
DWR ID	DWR_RD2098_02_f_2014_14				
Action/Comments					
Inspector Comments: FS_ID:32564					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to verify pipe is properly abandoned as					
waterside is not visible. Was this filled with concrete or just capped?					
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel drain pipe					
through the levee, 8-feet below the crown. CM cutoff wall around pipe.					
Steel plate welded over LS end of pipe.					
FS Date: 3/18/2014 8:14:00 AM					

No Photos

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

**Unit Cover Sheet**

**Fall 2014 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 03 Haas Slough			Right	1.94
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/14/2014 - 05/14/2014		10/13/2014 - 10/13/2014	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

**Summer & Winter Inspections**

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

DWR must be informed on the:

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

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

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

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

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	10/13/2014 10/13/2014	Herman Phillips

LM Start	7.30	Rating **	M	Issue No.	17
LM End	9.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.294171 °	38.316093 °
				-121.725037 °	-121.704014 °
DWR ID	DWR_RD2098_03_f_2014_17				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2014\_RD2098\_247\_17\_20141126\_00008.jpg



Looking downstream from levee mile 7.30 Unit 3 landside slope.

LM Start	7.33	Rating **	M	Issue No.	7
LM End	7.72	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.299606 °	38.294858 °
				-121.728621 °	-121.725433 °
DWR ID	DWR_RD2098_03_f_2014_7				
Action/Comments					
Inspector Comments: 2011 - Large vertical erosion pockets and bank slumping. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: HAS_7-9_L] The USAC Placed rock at this site,					

No Photos

LM Start	7.36	Rating **	M	Issue No.	6
LM End	7.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.295460 °	38.296799 °
				-121.725750 °	-121.727510 °
DWR ID	DWR_RD2098_03_s_2013_6				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: This erosion is caused by the resident goats in the area. They are corralled in this location with full access to the levee					
.					

No Photos

\* **Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

+ **Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	10/13/2014 10/13/2014	Herman Phillips

LM Start	7.42	Rating **	U	Issue No.	3
LM End	7.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.295669 °	38.295669 °
				-121.725980 °	-121.725980 °
DWR ID	DWR_RD2098_03_f_2014_3				
Action/Comments					
Inspector Comments: FS_ID:32389					
EP_NO: 2591					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Both walkways to slidegates in poor structural condition. Can not safely access slide gate on WS slope.					
FIELD_STRUCT_DESC: 30-inch CM irrigation/drain pipe through the levee, 25.0 feet below the crown. Two CM cutoff walls around pipe at both shoulders. Walkways to slide gates at both ends of pipe. (Permit No. 2591-1959)					
FS Date: 3/19/2014					

No Photos

LM Start	7.50	Rating **	M	Issue No.	4
LM End	7.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.295930 °	38.298142 °
				-121.727043 °	-121.739715 °
DWR ID	DWR_RD2098_03_s_2013_4				
Action/Comments					
Repair slope instability. Inspector Comments: There is erosion on waterside covered by tullies. This is not a new site. Monitor but it appears to be stable at this time, 4-23-2013. During inspection 5-14-2014 no movement at site.					

Photo 1 of 1 : FA\_2014\_RD2098\_247\_4\_20141008\_00001.jpg



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

LM Start	7.58	Rating **	M	Issue No.	1
LM End	7.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.297384 °	38.297384 °
				-121.728137 °	-121.728137 °
DWR ID	DWR_RD2098_03_s_2014_1				
Action/Comments					
Note and monitor erosion site.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	10/13/2014 10/13/2014	Herman Phillips

LM Start	7.58	Rating **	M	Issue No.	2
LM End	7.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.297384 °	38.299197 °
				-121.728137 °	-121.728516 °
DWR ID	DWR_RD2098_03_s_2014_2				
Action/Comments					
Note and monitor erosion site. Inspector Comments: The erosion at this location is partially blocked by bamboo growth.					

No Photos

LM Start	7.89	Rating **	C	Issue No.	10
LM End	7.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.301498 °	38.301846 °
				-121.728064 °	-121.728047 °
DWR ID	DWR_RD2098_03_s_2014_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	7.89	Rating **	C	Issue No.	11
LM End	7.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.301502 °	38.302011 °
				-121.728055 °	-121.728037 °
DWR ID	DWR_RD2098_03_s_2014_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	10/13/2014 10/13/2014	Herman Phillips

LM Start	7.90	Rating **	M	Issue No.	9
LM End	7.90	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.301707 °	38.301707 °
				-121.728045 °	-121.728045 °
DWR ID	DWR_RD2098_03_s_2014_9				
Action/Comments					
Tree or limb					

No Photos

LM Start	8.19	Rating **	U	Issue No.	8
LM End	8.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.305462 °	38.305462 °
				-121.728881 °	-121.728881 °
DWR ID	DWR_RD2098_03_f _ 2014_8				
Action/Comments					
Inspector Comments: FS_ID:33785 EP_NO: 10174 Repair Type: Urgent Crossing Status: Found UCIP Comments: Current walkway to slidegate on WS toe does not provide safe access to operate slidegate. FIELD_STRUCT_DESC: 36-inch drain pipe through the levee, 26.0 feet below the crown. Two CM cutoff walls around pipe. Walkway to slide gate on waterward end. Combination slide and flap gate on landward end. (USACE-1962). 48-inch CMP riser and an adjoining pump on a metal pier at LS toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.20). This pipe was retained under ABO No. 10174 (1974). FS Date: 3/19/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	10/13/2014 10/13/2014	Herman Phillips

LM Start	8.20	Rating **	C	Issue No.	12
LM End	9.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.305586 °	38.314957 °
				-121.729106 °	-121.738939 °
DWR ID	DWR_RD2098_03_s_2014_12				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	8.30	Rating **	C	Issue No.	5
LM End	8.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.306200 °	38.306200 °
				-121.730699 °	-121.730699 °
DWR ID	DWR_RD2098_03_f_2013_5				
Action/Comments					

No Photos

LM Start	8.34	Rating **	C	Issue No.	13
LM End	9.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.306442 °	38.314957 °
				-121.731284 °	-121.738939 °
DWR ID	DWR_RD2098_03_s_2014_13				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 2098 Cache and Haas Slough

Page 6 of 6

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2014 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 04 Back Levee			Left	2.95
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/14/2014 - 05/14/2014		10/13/2014 - 10/13/2014	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

**Summer & Winter Inspections**

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

DWR must be informed on the:

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

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

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

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

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	10/13/2014 10/13/2014	Herman Phillips

LM Start	9.20	Rating **	M	Issue No.	4
LM End	9.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.316167 °	38.316167 °
				-121.740115 °	-121.740120 °
DWR ID	DWR_RD2098_04_s_2014_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA\_2014\_RD2098\_248\_4\_20141126\_00005.jpg



RD 2098 Unit 4 looking downstream along the landside at levee mile 9.20.

LM Start	9.20	Rating **	C	Issue No.	1
LM End	12.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.316167 °	38.357631 °
				-121.740115 °	-121.740423 °
DWR ID	DWR_RD2098_04_s_2014_1				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	9.46	Rating **	C	Issue No.	2
LM End	9.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.320240 °	38.324587 °
				-121.740183 °	-121.740254 °
DWR ID	DWR_RD2098_04_f_2014_2				
Action/Comments					
Inspector Comments: 2011 - Several scallops of erosion. Erosion primarily due to the weight of cattle on the slope. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: HAS_9-7_L] This site was repaired by District prior to last Inspection.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	10/13/2014 10/13/2014	Herman Phillips

LM Start	9.51	Rating **	C	Issue No.	5
LM End	9.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.320664 °	38.321113 °
				-121.740173 °	-121.740143 °
DWR ID	DWR_RD2098_04_s_2014_5				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	9.51	Rating **	C	Issue No.	3
LM End	9.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.320664 °	38.321116 °
				-121.740173 °	-121.740146 °
DWR ID	DWR_RD2098_04_s_2014_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	9.53	Rating **	M	Issue No.	9
LM End	9.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.321032 °	38.321032 °
				-121.740154 °	-121.740154 °
DWR ID	DWR_RD2098_04_f_2014_9				
Action/Comments					
Inspector Comments: FS_ID:32383					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: need to verify status of gaslines in region with PG&E					
(888) 743-7431 Fax: Email: PipelineRequests@pge.com					
FIELD_STRUCT_DESC: 4-inch gas pipe through the levee, 2.0 feet					
below the crown. Shutoff valve located 370-feet east of levee crown.					
FS Date: 3/19/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	10/13/2014 10/13/2014	Herman Phillips

LM Start	9.63	Rating **	C	Issue No.	7
LM End	9.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.322647 °	38.322647 °
				-121.740138 °	-121.740138 °
DWR ID	DWR_RD2098_04_s_2014_7				
Action/Comments					
Note and monitor erosion site.					

No Photos

LM Start	9.72	Rating **	M	Issue No.	8
LM End	9.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.323749 °	38.324467 °
				-121.740148 °	-121.740155 °
DWR ID	DWR_RD2098_04_s_2014_8				
Action/Comments					
Note and monitor erosion site.					

No Photos

LM Start	9.79	Rating **	C	Issue No.	46
LM End	9.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.324775 °	38.325065 °
				-121.740116 °	-121.740105 °
DWR ID	DWR_RD2098_04_f_2013_46				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	10/13/2014 10/13/2014	Herman Phillips

LM Start	9.81	Rating **	C	Issue No.	10
LM End	9.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.325061 °	38.325061 °
				-121.740123 °	-121.740123 °
DWR ID	DWR_RD2098_04_s_2014_10				
Action/Comments					
Material					

No Photos

LM Start	9.83	Rating **	C	Issue No.	13
LM End	11.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			-38.325355 °	38.343856 °
				121.740095 °	-21.740803 °
DWR ID	DWR_RD2098_04_s_2014_13				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	11.11	Rating **	M	Issue No.	12
LM End	11.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.343608 °	38.343608 °
				-121.740836 °	-121.740836 °
DWR ID	DWR_RD2098_04_f_2014_12				
Action/Comments					
Inspector Comments: FS_ID:32403					
EP_NO: 12851					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Holes in pipe next to rail car bridge may indicate further deterioration of pipe through leve. Good candidate for video inspection.					
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 2-feet below the crown. Cutoff wall around pipe at center of levee.					
Siphon breaker on Landside toe at canal. 1-inch PVC electrical conduit at same location (Permit No. 12851-1980)					
FS Date: 3/19/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	10/13/2014 10/13/2014	Herman Phillips

LM Start	11.13	Rating **	C	Issue No.	11
LM End	12.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.343856 °	38.358206 °
				-121.740803 °	-121.740377 °
DWR ID	DWR_RD2098_04_s_2014_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	11.16	Rating **	M	Issue No.	14
LM End	11.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.344349 °	38.344349 °
				-121.740794 °	-121.740794 °
DWR ID	DWR_RD2098_04_f_2014_14				
Action/Comments					
Inspector Comments: FS_ID:40801					
EP_NO: 17842					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: No markers found.					
FIELD_STRUCT_DESC: 3-inch gas pipe through the levee,					
approximately 37.0 feet below the crown. (Permit No. 17842-2004).					
FS Date: 3/19/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	10/13/2014 10/13/2014	Herman Phillips

LM Start	12.10	Rating **	M	Issue No.	15
LM End	12.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357841 °	38.357841 °
				-121.740396 °	-121.740396 °
DWR ID	DWR_RD2098_04_f _ 2014_15				
Action/Comments					
Inspector Comments: FS_ID:32327 EP_NO: 11564 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Pipe rusted through at outlet in canal. This may indicate further degradation of pipe within the levee. Good candidate for video inspection. FIELD_STRUCT_DESC: 18-inch steel drain pipe through the levee, 2.0 feet below the crown. Steel cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at LS shoulder. Pump missing from steel pump pad over 4'X4' concrete sump at WS toe (Permit No. 11564-1976). FS Date: 3/19/2014					

No Photos

LM Start	12.10	Rating **	U	Issue No.	16
LM End	12.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357863 °	38.357863 °
				-121.740394 °	-121.740394 °
DWR ID	DWR_RD2098_04_f_2014_16				
Action/Comments					
Inspector Comments: FS_ID:32326 EP_NO: 5426-A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Foundation for concrete distribution box on LS toe at canal has failed. Box has fallen into canal and LS slope has erosion at same location. Pipe open on both ends. FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainpipe through the levee, 3.0 feet below the crown. Vertical pump missing from steel platform over 7'X4' concrete box on WS toe. Concrete cattle guard structure (7x15x4 foot) on crown around pipes. Discharge structure on landward slope. (Permit No. 5426A-1967) FS Date: 3/19/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2014**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	10/13/2014 10/13/2014	Herman Phillips

LM Start	12.10	Rating **	U	Issue No.	17
LM End	12.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357870 °	38.357870 °
				-121.740396 °	-121.740396 °
DWR ID	DWR_RD2098_04_f _ 2014_17				
Action/Comments					
Inspector Comments: FS_ID:32325 EP_NO: 5426-A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Foundation for concrete distribution box on LS toe at canal has failed. Box has fallen into canal and LS slope has erosion at same location. Pipe open on both ends. FIELD_STRUCT_DESC: 2 of 2: 18-inch steel drainpipe through the levee, 3.0 feet below the crown. Vertical pumps missing from steel pad over 7'X4' concrete sump on WS toe. Concrete cattle guard structure (7x15x4 foot) on crown around pipes. Discharge structure on landward slope. (Permit No. 5426A-1967) FS Date: 3/19/2014					

No Photos

LM Start	12.11	Rating **	M	Issue No.	18
LM End	12.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358110 °	38.358110 °
				-121.740381 °	-121.740381 °
DWR ID	DWR_RD2098_04_f_2014_18				
Action/Comments					
Inspector Comments: FS_ID:32566					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to verify status with gas company and install signs. No permit identified for crossing, though it may be connected to a permitted line installed in RD 2068 under Permit No. 13490.					
FIELD_STRUCT_DESC: 6-inch steel gasline through the levee 3-feet below the crown. Signs on East side of levee. Pipe visible on downstream side of roadway bridge.					
FS Date: 3/19/2014					

No Photos

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