

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD2098	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2098 Cache and Haas Slough	U	10.91						
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	1.59	0.49	3.55	32.55%				
Encroachments	0.03		0.03	0.28%	0.01			
Slope Stability	0.14	0.01	0.18	1.65%				
Erosion / Bank Caving	0.07		0.07	0.64%				
Repair Gates		0.02	0.08	0.73%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.69		0.69	6.33%				
DWR UCIP Field Study					0.16	0.05		
<i>LMA Totals:</i>	2.52	0.52	4.60	42.18%	0.17	0.05	0.00	0.00
Unit No. 01 Yolo Bypass RB	Overall Unit Rating	Total Unit Miles						
RD2098	A	3.60						
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	0.11		0.11	3.06%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07			
<i>Unit Totals:</i>	0.11	0.00	0.11	3.06%	0.07	0.00	0.00	0.00
Unit No. 01A Cross Levee RB	Overall Unit Rating	Total Unit Miles						
RD2098	A	0.53						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
Unit No. 02 Cache Slough LB	Overall Unit Rating	Total Unit Miles						
RD2098	U	1.89						
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	0.14	0.25	1.14	60.18%				
Encroachments	0.02		0.02	1.06%	0.01			
Erosion / Bank Caving	0.02		0.02	1.06%				
Repair Gates		0.02	0.08	4.22%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.04			
<i>Unit Totals:</i>	0.18	0.27	1.26	66.52%	0.05	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 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		U	1.94						
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	1.34	0.24	2.30	118.79%					
Encroachments	0.01		0.01	0.52%					
Slope Stability	0.14	0.01	0.18	9.30%					
<i>Supplemental</i>									
2015 USACE Erosion Survey, DRAFT	0.39		0.39	20.14%					
DWR UCIP Field Study					0.01	0.02			
<i>Unit Totals:</i>	1.88	0.25	2.88	148.74%	0.01	0.02	0.00	0.00	

Unit No. 04 Back Levee LB		Overall Unit Rating	Total Unit Miles						
RD2098		M	2.95						
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>									
Erosion / Bank Caving	0.05		0.05	1.69%					
<i>Supplemental</i>									
2015 USACE Erosion Survey, DRAFT	0.30		0.30	10.16%					
DWR UCIP Field Study					0.04	0.03			
<i>Unit Totals:</i>	0.35	0.00	0.35	11.86%	0.04	0.03	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 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)			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 2016 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	4/6/2016 - 4/6/2016		9/22/2016 - 9/22/2016	
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:

- 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

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

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_RD2098_01_f_2014_4				
Comment Code					
Inspector Comment					
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 *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_RD2098_01_f_2014_5				
Comment Code					
Inspector Comment					
RD 2098 Has their team well prepared for Flood Fight.					

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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	11
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.329090 °	38.277410 °
				-121.694065 °	-121.696280 °
DWR ID	DWR_RD2098_01_f_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
RD 2098 Unit 1 looking downstream there is no unwanted vegetation on the levee slope.					

Photo 1 of 1 : FA_2016_RD2098_244_11_20160926_00022.jpg



RD2098 landside levee slope, looking downstream.

LM Start	0.03	Rating **	A	Issue No.	12
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.328680 °	38.322577 °
				-121.694083 °	-121.694028 °
DWR ID	DWR_RD2098_01_f_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
No unwanted vegetation on the water side levee slope.					

Photo 1 of 1 : FA_2016_RD2098_244_12_20160926_00023.jpg



RD 2068 Waterside levee slope Unit 1 looking downstream from levee mile 0.03-0.45.

LM Start	0.45	Rating **	M	Issue No.	13
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.322577 °	38.320957 °
				-121.694028 °	-121.694037 °
DWR ID	DWR_RD2098_01_f_2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Weeds sprayed in this section of levee were not removed from the slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence 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 - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	1.82	Rating **	M	Issue No.	14
LM End	1.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.302770°	38.302770°
				-121.693640°	-121.693640°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32197					
DS_ID:20965					
EP_NO: 10168					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Erosion under pipe at WS toe.					
FIELD_STRUCT_DESC: 10-inch steel drainpipe through the levee, 2.8-feet below the crown. Pump in pump house off the landward side. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.80). This pipe was retained under ABO No. 10168 (1974).					
FS Date: 3/18/2014					

Photo 1 of 2 : UCIP_FA_2016_32197_58662.jpg



Pipe on WS slope.

LM Start	1.82	Rating **	M	Issue No.	14 (cont)
LM End	1.82	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_32197_58661.jpg



Pumphouse at lowpoint off LS toe.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	1.83	Rating **	M	Issue No.	15
LM End	1.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.302552 °	38.302552 °
				-121.693653 °	-121.693653 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32207 DS_ID:20966 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate actuator bent but appears to be in closed position. No lid on standpipe. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 24.5 feet below the crown. Two CM cutoff wall around pipe at center of levee. Slide gate in 36-inch CMP riser on the waterward slope. Concrete saddle and apron on waterward end. Flap gate and "U" headwall on landward end. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

LM Start	1.83	Rating **	M	Issue No.	15 (cont)
LM End	1.83	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32207_58665.jpg



36-inch CMP riser with bent slide gate actuator on WS slope.

Photo 2 of 2 : UCIP_FA_2016_32207_58664.jpg



No lid on CMP riser that is 24-feet deep.

* 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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Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	2.00	Rating **	M	Issue No.	16
LM End	2.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.300152 °	38.300152 °
				-121.693626 °	-121.693626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32225 DS_ID:20967 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Pipe open on WS at pumphouse as there is no connection to pump. FIELD_STRUCT_DESC: 2-inch galvanized iron irrigation pipe through the levee, 10.0 feet below the crown. Pump in pump house on the waterward slope next to Fishing dock. Power pole and meter at LS toe, next to hose bib. 1-inch steel electrical conduit at same location. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

Photo 1 of 2 : UCIP_FA_2016_32225_58687.jpg



Pumphouse next to fishing dock on WS slope.

LM Start	2.00	Rating **	M	Issue No.	16 (cont)
LM End	2.00	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_32225_58686.jpg



Power pole and meter next to spigot on LS toe.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	3.01	Rating **	M	Issue No.	17
LM End	3.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.285525 °	38.285525 °
				-121.693640 °	-121.693640 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32227					
DS_ID:20969					
EP_NO: 13222					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe rusted through at outlet on WS slope, may indicate further degradation of pipe within levee. Good candidate for video inspection.					
FIELD_STRUCT_DESC: 20-inch steel drainpipe through the levee, 7.5 feet below the crown. Siphon breaker at waterward shoulder. Pump on pile structure in drain ditch on landward side. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.98). This pipe was retained under ABO No. 10168 (1974). Pipe removed and replaced with 19-inch steel pipe under crown and along landward slope under Permit No. 13222 (1982).					
FS Date: 3/18/2014					

LM Start	3.01	Rating **	M	Issue No.	17 (cont)
LM End	3.01	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32227_58692.jpg



Pump on pile structure in drainage channel on LS toe.

Photo 2 of 2 : UCIP_FA_2016_32227_58691.jpg



Siphon breaker in steel riser on WS slope.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	3.49	Rating **	M	Issue No.	18
LM End	3.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278879 °	38.278879 °
				-121.695957 °	-121.695957 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32243 DS_ID:20970 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Walkway to slidegate on WS toe is in poor structural condition and may not be safe for accessing the slide gate actuator. Pipe appears abandoned and if so should be done so properly. Outlet on LS toe may be burried. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 22.3 feet below the crown. Slide gate on the waterward end. Walkway from waterward shoulder to slide gate control. Flap gate on landward end. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

LM Start	3.49	Rating **	M	Issue No.	18 (cont)
LM End	3.49	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32243_58702.jpg



Walkway to slide gate actuator on WS toe.

Photo 2 of 2 : UCIP_FA_2016_32243_58701.jpg



Walkway may not be structurally sound.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	3.50	Rating **	M	Issue No.	20
LM End	3.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278770 °	38.278770 °
				-121.696050 °	-121.696050 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41717 DS_ID:20971 EP_NO: 15169 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris and soil buildup in riser may prevent proper function of siphon breaker. FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainpipe through the levee, 5.6 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at waterward shoulder. Flap gate on waterward end. Pump in pump house on piling structure on landward side. (Permit No. 15169-1989) FS Date: 3/18/2014					

LM Start	3.50	Rating **	M	Issue No.	20 (cont)
LM End	3.50	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_41717_58704.jpg



Pump in pumphouse on LS toe.

Photo 2 of 2 : UCIP_FA_2016_41717_58703.jpg



Pump in pumphouse on LS toe.

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/22/2016 09/22/2016	Herman Phillips

LM Start	3.50	Rating **	M	Issue No.	19
LM End	3.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278759 °	38.278759 °
				-121.696059 °	-121.696059 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32245 DS_ID:20959 EP_NO: 15169 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Soil and debris buildup in steel riser on WS shoulder may prevent proper function of siphon breaker. FIELD_STRUCT_DESC: 2 of 2: 24-inch steel pipe through the levee, 5.6 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at waterward shoulder. Flap gate on waterward end. Pump in pump house on piling structure on landward side. (Permit No. 15169-1989) FS Date: 3/18/2014					

LM Start	3.50	Rating **	M	Issue No.	19 (cont)
LM End	3.50	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32245_58710.jpg



Pump in pumphouse on LS toe.

Photo 2 of 2 : UCIP_FA_2016_32245_58709.jpg



Pump in pumphouse on LS toe.

* 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**

Unit Cover Sheet

Fall 2016 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	4/6/2016 - 4/6/2016		9/22/2016 - 9/22/2016	
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:

- 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.53	09/22/2016 09/22/2016	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277450 °	38.275710 °
				-121.696242 °	-121.705713 °
DWR ID	DWR_RD2098_01A_f_2016_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Looking downstream from the landside levee slope, there are no vegetation on the levee slope.					

Photo 1 of 1 : FA_2016_RD2098_245_2_20160926_00002.jpg



RD 2098 Unit 1A looking downstream from the landside 0.00.

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277440 °	38.275710 °
				-121.696245 °	-121.705713 °
DWR ID	DWR_RD2098_01A_f_2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This levee section has no unwanted vegetation.					

Photo 1 of 1 : FA_2016_RD2098_245_3_20160926_00001.jpg



RD 2098 Unit 1A looking downstream from the waterside slope.

LM Start	0.01	Rating **	A	Issue No.	4
LM End	0.54	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				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

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**

Unit Cover Sheet

Fall 2016 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)			U	
Date of Inspection	4/6/2016 - 4/6/2016		9/22/2016 - 9/22/2016	
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:

- 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.

Reclamation District No. 2098 Cache and Haas Slough

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	5.71	Rating **	M	Issue No.	23
LM End	5.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.280788 °	38.280788 °
				-121.709617 °	-121.709617 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32287 DS_ID:20973 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					

LM Start	5.71	Rating **	M	Issue No.	23 (cont)
LM End	5.71	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32287_58755.jpg



LS - no pipe visible.

Photo 2 of 2 : UCIP_FA_2016_32287_58754.jpg



Slide gate in 36-inch standpipe on WS slope.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	5.89	Rating **	M	Issue No.	11
LM End	5.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.283073 °	38.283073 °
				-121.711120 °	-121.711120 °
DWR ID	DWR_RD2098_02_f_2016_11				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree need to be removed from the waterside slope.					

Photo 1 of 1 : FA_2016_RD2098_246_11_20161102_00018.jpg



RD 2098 Unit 2 looking downstream from levee mile 5.89 waterside slope.

LM Start	6.12	Rating **	M	Issue No.	12
LM End	6.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.284348 °	38.284348 °
				-121.714682 °	-121.714682 °
DWR ID	DWR_RD2098_02_f_2016_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove this nut tree from the landside slope.					

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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	6.70	Rating **	M	Issue No.	10
LM End	6.70	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.292076 °	38.292076 °
				-121.715792 °	-121.715792 °
DWR ID	DWR_RD2098_02_s_2014_10				
Comment Code					
MA : Material					
Inspector Comment					
Large concrete slab partially covered in durt on waterside slope.					

Photo 1 of 1 : FA_2016_RD2098_246_10_20160919_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.

LM Start	6.71	Rating **	M	Issue No.	21	
LM End	6.71	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						
Comment Code						
Inspector Comment						
FS_ID:33784						
DS_ID:20976						
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						

Photo 1 of 2 : UCIP_FA_2016_33784_61162.jpg



Two slide gates in 7-foot diameter CMP riser on waterward slope.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	6.71	Rating **	M	Issue No.	21 (cont)	
LM End	6.71	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						
Comment Code						
Inspector Comment						
FS_ID:33784 DS_ID:20976 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						

Photo 2 of 2 : UCIP_FA_2016_33784_61161.jpg



Inlet not visible on LS toe.

LM Start	6.72	Rating **	M	Issue No.	22
LM End	6.72	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					
Comment Code					
Inspector Comment					
FS_ID:32285 DS_ID:20961 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					

Photo 1 of 2 : UCIP_FA_2016_32285_58749.jpg



Inlet not visible on LS toe.

* 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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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

Photo 2 of 2 : UCIP_FA_2016_32285_58748.jpg

7-foot diameter CMP riser with two slide gates inside.

Photo 1 of 1 : FA_2016_RD2098_246_14_20161102_00019.jpg



RD 2098 Unit 2 waterside slope levee mile 6.72-6.74.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	6.72	Rating **	U	Issue No.	13
LM End	6.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292325 °	38.292572 °
				-121.715957 °	-121.716238 °
DWR ID	DWR_RD2098_02_f_2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the tall milk weed from the landside slope and shoulder.					

Photo 1 of 1 : FA_2016_RD2098_246_13_20161102_00020.jpg



RD 2098 Unit 2 landside levee slope looking downstream levee mile 6.72-6.75.

LM Start	6.74	Rating **	U	Issue No.	16
LM End	6.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.292467 °	38.292467 °
				-121.716138 °	-121.716138 °
DWR ID	DWR_RD2098_02_f_2016_16				
Comment Code					
Inspector Comment					
Repair this gate that has been damaged.					

Photo 1 of 1 : FA_2016_RD2098_246_16_20161102_00021.jpg



Levee mile 6.74 crown roadway gate crossing.

LM Start	6.75	Rating **	M	Issue No.	17
LM End	6.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292572 °	38.292922 °
				-121.716240 °	-121.717028 °
DWR ID	DWR_RD2098_02_f_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses from the landside slope levee mile 6.75-6.80.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side N/A : Not Applicable		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 - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	6.75	Rating **	M	Issue No.	4
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292572 °	38.292947 °
				-121.716240 °	-121.717110 °
DWR ID	DWR_RD2098_02_f_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual weeds from the waterside slope.					

No Photos

LM Start	6.78	Rating **	M	Issue No.	15
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.292838 °	38.292917 °
				-121.716733 °	-121.717160 °
DWR ID	DWR_RD2098_02_f_2015_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Need to add material to the damaged slope caused by goats.					

Photo 1 of 2 : FA_2016_RD2098_246_15_20160919_00003.jpg



Slope damage caused by goats. Spring 2016

LM Start	6.78	Rating **	M	Issue No.	15 (cont)
LM End	6.80	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD2098_246_15_20161102_00022.jpg



Looking downstream levee mile 6.78-6.80 slope damaged by resident goats. (Fall 2016).

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.03	Rating **	M	Issue No.	18
LM End	7.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292983 °	38.292992 °
				-121.721312 °	-121.722023 °
DWR ID	DWR_RD2098_02_f_2016_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the vegetation on the landside levee mile 7.03-7.07.					

No Photos

LM Start	7.07	Rating **	U	Issue No.	19
LM End	7.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292993 °	38.292992 °
				-121.722033 °	-121.723917 °
DWR ID	DWR_RD2098_02_f_2016_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the tall milk weed from the landside slope and shoulder.					

Photo 1 of 1 : FA_2016_RD2098_246_19_20161102_00023.jpg



RD 2098 Unit 2 levee mile 7.07-7.17 landside shoulder and slope looking downstream.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.07	Rating **	U	Issue No.	20
LM End	7.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292993 °	38.292990 °
				-121.722077 °	-121.723920 °
DWR ID	DWR_RD2098_02_f_2016_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Tall milk weed needs removing from waterside slope and shoulders.					

Photo 1 of 1 : FA_2016_RD2098_246_20_20161102_00024.jpg



RD 2098 Unit 2 looking downstream waterside shoulder and slope levee mile 7.07-7.17.

LM Start	7.14	Rating **	U	Issue No.	5
LM End	7.14	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				
Comment Code					
Inspector Comment					
Gate damage, make repairs to this gate. This gate could cause injury to someone.					

Photo 1 of 3 : FA_2016_RD2098_246_5_20161102_00025.jpg



RD 2098 Unit 2 levee mile 7.14 crown crossing.

LM Start	7.14	Rating **	U	Issue No.	5 (cont)
LM End	7.14	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : FA_2016_RD2098_246_5_20161102_00029.jpg



RD 2098 Unit 2 levee mile 7.14.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.14	Rating **	U	Issue No.	5 (cont)	
LM End	7.14	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					
Comment Code						
Inspector Comment						
Gate damage, make repairs to this gate. This gate could cause injury to someone.						

Photo 3 of 3 : FA_2016_RD2098_246_5_20161102_00030.jpg



RD 2098 Unut 2 levee mile 7.14

LM Start	7.19	Rating **	M	Issue No.	24
LM End	7.19	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					
Comment Code					
Inspector Comment					
FS_ID:32290 DS_ID:20977 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					

Photo 1 of 2 : UCIP_FA_2016_32290_58764.jpg



Slide gate at LS toe.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.19	Rating **	M	Issue No.	24 (cont)	
LM End	7.19	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						
Comment Code						
Inspector Comment						
FS_ID:32290 DS_ID:20977 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						

Photo 2 of 2 : UCIP_FA_2016_32290_58763.jpg



Delapidated wooden pier on WS shoulder.

* 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**

Unit Cover Sheet

Fall 2016 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)			U	
Date of Inspection	4/6/2016 - 4/6/2016		9/22/2016 - 9/22/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty			

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.

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.19	Rating **	U	Issue No.	2
LM End	7.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.293178 °	38.294705 °
				-121.724220 °	-121.725130 °
DWR ID	DWR_RD2098_03_f _ 2016_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the tall vegetation from the landside slope.					

Photo 1 of 1 : FA_2016_RD2098_247_2_20161102_00011.jpg



RD 2098 Looking downstream from levee mile 7.19 landside slope.

LM Start	7.19	Rating **	U	Issue No.	8	
LM End	7.31	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Vegetation			38.293178 °	38.294705 °	
				-121.724215 °	-121.725133 °	
DWR ID	DWR_RD2098_03_f_2016_8					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove the tall dead vegetation from the water side slope.						

Photo 1 of 1 : FA_2016_RD2098_247_8_20161102_00007.jpg



RD 2098 Unit 3 levee mile 7.19-7.31 waterside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.24	Rating **	M	Issue No.	13
LM End	7.24	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.293741 °	38.293741 °	
			-121.724787 °	-121.724787 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32564 DS_ID:24848 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

LM Start	7.33	Rating **	M	Issue No.	3
LM End	7.72	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.294858 °	38.299606 °	
			-121.725433 °	-121.728621 °	
DWR ID	DWR_RD2098_03_f_2016_3				
Comment Code					
Inspector Comment					
2011 - Large vertical erosion pockets and bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: HAS_7-9_L]					

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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.37	Rating **	M	Issue No.	11
LM End	8.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.295418 °	38.305932 °
				-121.725657 °	-121.730000 °
DWR ID	DWR_RD2098_03_f_2016_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the dead vegetation growth from the waterside slope.					

No Photos

LM Start	7.37	Rating **	M	Issue No.	6
LM End	7.51	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				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
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 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.39	Rating **	U	Issue No.	14
LM End	7.39	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					
Comment Code					
Inspector Comment					
FS_ID:32389					
DS_ID:20979					
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					

LM Start	7.39	Rating **	U	Issue No.	14 (cont)
LM End	7.39	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32389_58893.jpg



Walkway over pipe on LS toe in poor structural condition and Slidegate not visible

Photo 2 of 2 : UCIP_FA_2016_32389_58892.jpg



Walkway over pipe on WS toe in poor structural condition.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.51	Rating **	U	Issue No.	1
LM End	7.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296846 °	38.296846 °
				-121.727546 °	-121.727546 °
DWR ID	DWR_RD2098_03_f_2016_1				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Make the repairs to the erosion site listed.					

LM Start	7.51	Rating **	U	Issue No.	1 (cont)
LM End	7.51	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : FA_2016_RD2098_247_1_20161102_00008.jpg



RD 2098 Unit 3 levee mile 7.51 landside slope.

Photo 2 of 3 : FA_2016_RD2098_247_1_20161102_00009.jpg



Close up. Looking downstream.

LM Start	7.51	Rating **	U	Issue No.	1 (cont)
LM End	7.51	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_RD2098_247_1_20161102_00010.jpg



Looking upstream.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/22/2016 09/22/2016	Herman Phillips

LM Start	7.74	Rating **	M	Issue No.	10
LM End	8.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.299780 °	38.305952 °
				-121.728398 °	-121.730053 °
DWR ID	DWR_RD2098_03_f_2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the vegetation on the landside slope.					

No Photos

LM Start	7.87	Rating **	M	Issue No.	9
LM End	7.87	Issue Type +	Ma	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead tree from the waterside slope.					

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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/22/2016 09/22/2016	Herman Phillips

LM Start	8.16	Rating **	U	Issue No.	12
LM End	8.16	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					
Comment Code					
Inspector Comment					
FS_ID:33785					
DS_ID:20981					
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					

LM Start	8.16	Rating **	U	Issue No.	12 (cont)
LM End	8.16	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_33785_61166.jpg



Wooden walkway at WS toe is in disrepair.

Photo 2 of 2 : UCIP_FA_2016_33785_61165.jpg



48-inch CMP riser with pump on metal pier visible at LS toe.

* 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**

Unit Cover Sheet

Fall 2016 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)			M	
Date of Inspection	-		9/22/2016 - 9/22/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty			

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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	9.13	Rating **	A	Issue No.	10
LM End	12.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.315820 °	38.357841 °
				-121.739982 °	-121.740400 °
DWR ID	DWR_RD2098_04_f_2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2098_248_10_20161102_00018.jpg



RD 2098 Unit 4 levee mile 9.13 looking downstream.

LM Start	9.16	Rating **	A	Issue No.	11
LM End	12.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.316250 °	38.357841 °
				-121.740098 °	-121.740400 °
DWR ID	DWR_RD2098_04_f_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	9.44	Rating **	M	Issue No.	1
LM End	9.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.320240 °	38.324587 °
				-121.740183 °	-121.740254 °
DWR ID	DWR_RD2098_04_f_2016_1				
Comment Code					
Inspector Comment					
2011 - Several scallops of erosion. Erosion primarily due to the weight of cattle on the slope. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: HAS_9-7_L]					

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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	9.49	Rating **	M	Issue No.	16
LM End	9.49	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					
Comment Code					
Inspector Comment					
FS_ID:32383 DS_ID:20983 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					

LM Start	9.49	Rating **	M	Issue No.	16 (cont)
LM End	9.49	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32383_58881.jpg



Shutoff valve visible 370-feet off LS toe.

Photo 2 of 2 : UCIP_FA_2016_32383_58880.jpg



Shutoff valve visible 370-feet off LS toe.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	9.68	Rating **	M	Issue No.	8	
LM End	9.73	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					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

No Photos

LM Start	11.07	Rating **	M	Issue No.	17
LM End	11.07	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					
Comment Code					
Inspector Comment					
FS_ID:32403 DS_ID:20991 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					

Photo 1 of 2 : UCIP_FA_2016_32403_58905.jpg



Pipe and siphon breaker visible on LS at canal crossing.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	11.07	Rating **	M	Issue No.	17 (cont)
LM End	11.07	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					
Comment Code					
Inspector Comment					
FS_ID:32403 DS_ID:20991 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					

Photo 2 of 2 : UCIP_FA_2016_32403_58904.jpg



Pump on pier in irrigation canal off WS toe.

LM Start	11.12	Rating **	U	Issue No.	18
LM End	11.12	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					
Comment Code					
Inspector Comment					
FS_ID:42124 DS_ID:20995 EP_NO: 17842 Repair Type: Urgent Crossing Status: Found UCIP Comments: No markers found. Need to contact owner to determine status and location. 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

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	12.05	Rating **	M	Issue No.	14
LM End	12.05	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					
Comment Code					
Inspector Comment					
FS_ID:32327					
DS_ID:20989					
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: *ABANDONED* 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					

Photo 1 of 2 : UCIP_FA_2016_32327_58822.jpg



Siphon breaker in CMP riser on LS shoulder.

LM Start	12.05	Rating **	M	Issue No.	14 (cont)
LM End	12.05	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_32327_58821.jpg



Pipe at canal on LS toe.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	13
LM End	12.05	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					
Comment Code					
Inspector Comment					
FS_ID:32326 DS_ID:20990 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: *ABANDONED* 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					

Photo 1 of 2 : UCIP_FA_2016_32326_58817.jpg



Concrete distribution box on LS slope has slipped into canal.

LM Start	12.05	Rating **	U	Issue No.	13 (cont)
LM End	12.05	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_32326_58816.jpg



Concrete cattle guard box over pipes at crown.

* 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 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	12
LM End	12.05	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					
Comment Code					
Inspector Comment					
FS_ID:32325 DS_ID:21013 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: *ABANDONED* 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					

LM Start	12.05	Rating **	U	Issue No.	12 (cont)
LM End	12.05	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32325_58812.jpg



Concrete distribution box on LS slope has lost its foundation stability and slid into canal on LS slope.

Photo 2 of 2 : UCIP_FA_2016_32325_58811.jpg



Concrete cattle guard over pipe on crown.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/22/2016 09/22/2016	Herman Phillips

LM Start	12.07	Rating **	M	Issue No.	15
LM End	12.07	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					
Comment Code					
Inspector Comment					
FS_ID:32566					
DS_ID:24845					
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 gasoline 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					

Photo 1 of 2 : UCIP_FA_2016_32566_59110.jpg



Pipe visible on South side of Bridge at Swan Road.

LM Start	12.07	Rating **	M	Issue No.	15 (cont)
LM End	12.07	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_32566_59109.jpg



Pipe visible on South side of Bridge at Swan Road.

* 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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