

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 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	3.36	0.52	5.44	49.88%					
Encroachments					0.01				
Slope Stability	0.15		0.15	1.38%					
Erosion / Bank Caving	0.21		0.21	1.93%					
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>	4.41	0.54	6.57	60.24%	0.17	0.05	0.00	0.00	
Unit No. 01 Yolo Bypass RB		Overall Unit Rating	Total Unit Miles						
RD2098		M	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	0.43		0.43	11.95%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.07				
<i>Unit Totals:</i>	0.43	0.00	0.43	11.95%	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	0.18	0.08	0.50	26.40%					
Slope Stability	0.01		0.01	0.53%					
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>	0.21	0.10	0.61	32.20%	0.04	0.00	0.00	0.00	

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Fall 2015 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	1.58	0.42	3.26	168.37%					
Encroachments					0.01				
Slope Stability	0.14		0.14	7.23%					
Erosion / Bank Caving	0.14		0.14	7.23%					
<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>	2.25	0.42	3.93	202.97%	0.02	0.02	0.00	0.00	
Unit No. 04 Back Levee LB		Overall Unit Rating	Total Unit Miles						
RD2098		U	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>									
Vegetation	1.17	0.02	1.25	42.34%					
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>	1.52	0.02	1.60	54.20%	0.04	0.03	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 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 2015 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)			M	
Date of Inspection	05/14/2015 - 05/14/2015		09/23/2015 - 09/23/2015	
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	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				
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 *	WS
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 *	WS
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

* 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	0.02	Rating **	A	Issue No.	10
LM End	3.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.328835 °	38.277543 °	
			-121.694085 °	-121.696202 °	
DWR ID	DWR_RD2098_01_f_2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Burned levee slope landward.					

Photo 1 of 1 : FA_2015_RD2098_244_10_20151006_00001.jpg



RD 2098 Unit 1 looking downstream from levee mile 0.00 landside slope.

LM Start	0.10	Rating **	M	Issue No.	11
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.327652 °	38.321435 °	
			-121.694050 °	-121.694047 °	
DWR ID	DWR_RD2098_01_f_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Slope appears to been sprayed some tall weed growth present on slope.					

Photo 1 of 1 : FA_2015_RD2098_244_11_20151006_00002.jpg



RD 2098 Unit 1 waterside slope looking downstream levee mile 0.10.

LM Start	1.08	Rating **	A	Issue No.	12
LM End	3.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.313518 °	38.277543 °	
			-121.693648 °	-121.696202 °	
DWR ID	DWR_RD2098_01_f_2015_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The weeds at this location was mowed.					

No Photos

* Location LS : Land Side 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/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	1.82	Rating **	M	Issue No.	13 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32197 DS_ID:20965 EP_NO: 10168 FS_HLM: 1.81 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4104.jpg



Pipe on WS slope.

LM Start	1.83	Rating **	M	Issue No.	14
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					
Action/Comments					
Inspector Comments: FS_ID:32207 DS_ID:20966 EP_NO: 10168 FS_HLM: 1.8251 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: 03/18/2014					

Photo 1 of 3 : UCIP_FA_2015_4105.jpg



bent actuator on WS slope.

* Location LS : Land Side 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/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	1.83	Rating **	M	Issue No.	14 (cont)
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					

Action/Comments

Inspector Comments: FS_ID:32207
 DS_ID:20966
 EP_NO: 10168
 FS_HLM: 1.8251
 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: 03/18/2014

LM Start	1.83	Rating **	M	Issue No.	14 (cont)
LM End	1.83	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_4106.jpg



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

Photo 3 of 3 : UCIP_FA_2015_4107.jpg



36-inch CMP riser with bent slide gate actuator 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	2.00	Rating **	M	Issue No.	15
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					
Action/Comments					
Inspector Comments: FS_ID:32225 DS_ID:20967 EP_NO: 10168 FS_HLM: 1.99 Repair Type: Non-Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_4108.jpg



Power pole and meter next to spigot on LS toe.

LM Start	2.00	Rating **	M	Issue No.	15 (cont)
LM End	2.00	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_4109.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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	2.00	Rating **	M	Issue No.	15 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32225 DS_ID:20967 EP_NO: 10168 FS_HLM: 1.99 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4110.jpg



Pumphouse next to fishing dock on WS slope.

LM Start	3.01	Rating **	M	Issue No.	16
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					
Action/Comments					
Inspector Comments: FS_ID:32227 DS_ID:20969 EP_NO: 13222 FS_HLM: 2.993 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: 03/18/2014					

Photo 1 of 3 : UCIP_FA_2015_4111.jpg



Pipe rusted through at outlet 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	3.01	Rating **	M	Issue No.	16 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32227 DS_ID:20969 EP_NO: 13222 FS_HLM: 2.993 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: 03/18/2014					

Photo 2 of 3 : UCIP_FA_2015_4112.jpg



Siphon breaker in steel riser on WS slope.

LM Start	3.01	Rating **	M	Issue No.	16 (cont)
LM End	3.01	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_FA_2015_4113.jpg



Pump on pile structure in drainage channel on LS toe.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	3.49	Rating **	M	Issue No.	17
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					
Action/Comments					
Inspector Comments: FS_ID:32243 DS_ID:20970 EP_NO: 10168 FS_HLM: 3.477 Repair Type: Non-Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_4114.jpg



Slidegate on WS toe at pipe.

LM Start	3.49	Rating **	M	Issue No.	17 (cont)
LM End	3.49	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_4115.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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	3.49	Rating **	M	Issue No.	17 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32243 DS_ID:20970 EP_NO: 10168 FS_HLM: 3.477 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4116.jpg



Walkway to slide gate actuator on WS toe.

LM Start	3.50	Rating **	M	Issue No.	18
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					
Action/Comments					
Inspector Comments: FS_ID:41717 DS_ID:20971 EP_NO: 15169 FS_HLM: 3.486 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: 03/18/2014					

Photo 1 of 2 : UCIP_FA_2015_3592.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**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	3.50	Rating **	M	Issue No.	18 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:41717 DS_ID:20971 EP_NO: 15169 FS_HLM: 3.486 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: 03/18/2014					

Photo 2 of 2 : UCIP_FA_2015_3593.jpg



Pump in pumphouse on LS toe.

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					
Action/Comments					
Inspector Comments: FS_ID:32245 DS_ID:20959 EP_NO: 15169 FS_HLM: 3.487 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: 03/18/2014					

Photo 1 of 3 : UCIP_FA_2015_3594.jpg



Siphon breaker in steel riser 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**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	09/23/2015 09/23/2015	Herman Phillips

LM Start	3.50	Rating **	M	Issue No.	19 (cont)
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					

Action/Comments

Inspector Comments: FS_ID:32245
 DS_ID:20959
 EP_NO: 15169
 FS_HLM: 3.487
 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: 03/18/2014

Photo 2 of 3 : UCIP_FA_2015_3595.jpg



Pump in pumphouse on LS toe.

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

Photo 3 of 3 : UCIP_FA_2015_3596.jpg



Pump in pumphouse on LS toe.

* 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**

Unit Cover Sheet

Fall 2015 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	05/14/2015 - 05/14/2015		09/23/2015 - 09/23/2015	
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**

Unit Cover Sheet

Fall 2015 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	05/14/2015 - 05/14/2015		09/23/2015 - 09/23/2015	
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.

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

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	5.32	Rating **	A	Issue No.	11
LM End	5.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.276043 °	38.277352 °	
			-121.705985 °	-121.707035 °	
DWR ID	DWR_RD2098_02_f_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Landside slope maintained from 5.32-5.43.					

Photo 1 of 1 : FA_2015_RD2098_246_11_20151006_00003.jpg



Looking downstream unit 2 landside levee slope.

LM Start	5.32	Rating **	A	Issue No.	9
LM End	6.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.276043 °	38.292358 °	
			-121.705985 °	-121.716040 °	
DWR ID	DWR_RD2098_02_f_2015_9				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	5.43	Rating **	M	Issue No.	12
LM End	5.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.277352 °	38.279447 °	
			-121.707035 °	-121.709238 °	
DWR ID	DWR_RD2098_02_f_2015_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	5.71	Rating **	M	Issue No.	18
LM End	5.71	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					
Action/Comments					
Inspector Comments: FS_ID:32287 DS_ID:20973 EP_NO: 10172 FS_HLM: 5.74 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: 03/18/2014					

Photo 1 of 3 : UCIP_FA_2015_3155.jpg



Slide gate in 36-inch standpipe on WS slope.

Photo 2 of 3 : UCIP_FA_2015_3156.jpg



Slide gate in 36-inch standpipe on WS slope.

LM Start	5.71	Rating **	M	Issue No.	18 (cont)
LM End	5.71	Issue Type +	En	Location *	LS

* 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	5.71	Rating **	M	Issue No.	18 (cont)
LM End	5.71	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					
Action/Comments					
Inspector Comments: FS_ID:32287 DS_ID:20973 EP_NO: 10172 FS_HLM: 5.74 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3157.jpg



LS - no pipe visible.

LM Start	6.51	Rating **	U	Issue No.	4
LM End	6.51	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_2015_RD2098_246_4_20150915_00001.jpg



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

LM Start	6.70	Rating **	M	Issue No.	10
LM End	6.70	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_2015_RD2098_246_10_20150915_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.

* Location LS : Land Side 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/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	6.71	Rating **	M	Issue No.	19
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					
Action/Comments					
Inspector Comments: FS_ID:33784 DS_ID:20976 EP_NO: 10172 FS_HLM: 6.732 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: 03/18/2014					

Photo 1 of 3 : UCIP_FA_2015_4183.jpg



View inside CMP riser on WS shoulder.

Photo 2 of 3 : UCIP_FA_2015_4184.jpg



Inlet not visible on LS toe.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	6.71	Rating **	M	Issue No.	19 (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					
Action/Comments					
Inspector Comments: FS_ID:33784 DS_ID:20976 EP_NO: 10172 FS_HLM: 6.732 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4185.jpg



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

LM Start	6.72	Rating **	M	Issue No.	20
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					
Action/Comments					
Inspector Comments: FS_ID:32285 DS_ID:20961 EP_NO: 10172 FS_HLM: 6.734 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: 03/18/2014					

Photo 1 of 3 : UCIP_FA_2015_3154.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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	6.72	Rating **	M	Issue No.	20 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32285 DS_ID:20961 EP_NO: 10172 FS_HLM: 6.734 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: 03/18/2014					

Photo 2 of 3 : UCIP_FA_2015_3916.jpg



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

LM Start	6.72	Rating **	M	Issue No.	20 (cont)
LM End	6.72	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_FA_2015_3917.jpg



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

* 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	6.73	Rating **	U	Issue No.	13
LM End	6.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.292358 °	38.292600 °	
			-121.716040 °	-121.716272 °	
DWR ID	DWR_RD2098_02_f_2015_13				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Tall star thistle on the landside slope.					

Photo 1 of 1 : FA_2015_RD2098_246_13_20151006_00004.jpg



Unsatisfactory tall weeds on the landside shoulder and slope.

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				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Need to add material to the damaged slope caused by goats.					

Photo 1 of 1 : FA_2015_RD2098_246_15_20151006_00005.jpg



Slope damage caused by goats.

LM Start	7.08	Rating **	U	Issue No.	16
LM End	7.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.292983 °	38.292995 °	
			-121.722268 °	-121.723283 °	
DWR ID	DWR_RD2098_02_f_2015_16				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove the tall wild weeds from the levee section.					

Photo 1 of 1 : FA_2015_RD2098_246_16_20151006_00006.jpg



Landside slope covered with star thistle from 7.08- 7.14.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

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				
Action/Comments					
Inspector Comments: Gate off hinge, replace the broken hinge.					

No Photos

LM Start	7.19	Rating **	M	Issue No.	21
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					
Action/Comments					
Inspector Comments: FS_ID:32290 DS_ID:20977 EP_NO: 10171 FS_HLM: 7.213 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: 03/18/2014					

Photo 1 of 3 : UCIP_FA_2015_3158.jpg



Concrete U-shaped headwall on WS 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	09/23/2015 09/23/2015	Herman Phillips

LM Start	7.19	Rating **	M	Issue No.	21 (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					
Action/Comments					
Inspector Comments: FS_ID:32290 DS_ID:20977 EP_NO: 10171 FS_HLM: 7.213 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: 03/18/2014					

Photo 2 of 3 : UCIP_FA_2015_3159.jpg



Delapidated wooden pier on WS shoulder.

LM Start	7.19	Rating **	M	Issue No.	21 (cont)
LM End	7.19	Issue Type +	En	Location *	CR

Photo 3 of 3 : UCIP_FA_2015_4024.jpg



Slide gate at LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 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	05/14/2015 - 05/14/2015		09/23/2015 - 09/23/2015	
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

LM Start	7.19	Rating **	U	Issue No.	8
LM End	7.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.293200 °	38.295798 °	
			-121.724272 °	-121.726147 °	
DWR ID	DWR_RD2098_03_f_2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove the tall weed growth from the landside levee section.					

Photo 1 of 1 : FA_2015_RD2098_247_8_20151006_00006.jpg



Looking upstream from levee mile 7.19 tall thistle present on the landside slope.

LM Start	7.19	Rating **	U	Issue No.	10
LM End	7.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.293200 °	38.295798 °	
			-121.724272 °	-121.726147 °	
DWR ID	DWR_RD2098_03_f_2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove the tall weeds from the waterside levee slope.					

Photo 1 of 1 : FA_2015_RD2098_247_10_20151006_00005.jpg



Looking upstream from levee mile 7.19 tall weeds present on the waterside 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

LM Start	7.24	Rating **	M	Issue No.	17
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					

Action/Comments
 Inspector Comments: FS_ID:32564
 DS_ID:24848
 EP_NO: N/A
 FS_HLM: 7.267
 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: 03/18/2014

LM Start	7.24	Rating **	M	Issue No.	17 (cont)
LM End	7.24	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_3711.jpg



Welded steel plate over pipe end on LS slope.

Photo 2 of 2 : UCIP_FA_2015_3712.jpg



Abandoned pipe visible under new replacement pipe.

* 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

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					
Action/Comments					
Inspector Comments: 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

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				
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 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

LM Start	7.39	Rating **	U	Issue No.	19
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					
Action/Comments					
Inspector Comments: FS_ID:32389 DS_ID:20979 EP_NO: 2591 FS_HLM: 7.42 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: 03/19/2014					

Photo 1 of 3 : UCIP_FA_2015_3829.jpg



Slidegate visible at WS toe.

LM Start	7.39	Rating **	U	Issue No.	19 (cont)
LM End	7.39	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_3830.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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

LM Start	7.39	Rating **	U	Issue No.	19 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32389 DS_ID:20979 EP_NO: 2591 FS_HLM: 7.42 Repair Type: Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3831.jpg



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

LM Start	7.43	Rating **	M	Issue No.	11
LM End	7.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.296012 °	38.300537 °
				-121.726508 °	-121.728228 °
DWR ID	DWR_RD2098_03_f_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	7.46	Rating **	M	Issue No.	12
LM End	7.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.296367 °	38.300547 °
				-121.726962 °	-121.728225 °
DWR ID	DWR_RD2098_03_f_2015_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Star thistle on the slope water side.					

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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

LM Start	7.56	Rating **	M	Issue No.	1
LM End	7.56	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

LM Start	7.56	Rating **	M	Issue No.	2
LM End	7.69	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 bambo growth.					

No Photos

LM Start	7.87	Rating **	M	Issue No.	9
LM End	7.87	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

* 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

LM Start	8.15	Rating **	U	Issue No.	20
LM End	8.15	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					
Action/Comments					
Inspector Comments: FS_ID:33785 DS_ID:20981 EP_NO: 10174 FS_HLM: 8.188 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: 03/19/2014					

Photo 1 of 3 : UCIP_FA_2015_4186.jpg



Inadequate access walkway to slidegate at WS toe.

Photo 2 of 3 : UCIP_FA_2015_4187.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**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	09/23/2015 09/23/2015	Herman Phillips

LM Start	8.15	Rating **	U	Issue No.	20 (cont)
LM End	8.15	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					
Action/Comments					
Inspector Comments: FS_ID:33785 DS_ID:20981 EP_NO: 10174 FS_HLM: 8.188 Repair Type: Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4188.jpg



Wooden walkway at WS toe is in disrepair.

LM Start	8.20	Rating **	M	Issue No.	13
LM End	8.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.305780 °	38.306985 °
				-121.729602 °	-121.732023 °
DWR ID	DWR_RD2098_03_f_2015_13				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	8.39	Rating **	M	Issue No.	18
LM End	9.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.307402 °	38.315760 °
				-121.732328 °	-121.739883 °
DWR ID	DWR_RD2098_03_f_2015_18				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

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**

Unit Cover Sheet

Fall 2015 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)			U	
Date of Inspection	05/14/2015 - 05/14/2015		09/23/2015 - 09/23/2015	
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	9.15	Rating **	A/W	Issue No.	4
LM End	9.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.316167 °	38.316167 °	
			-121.740120 °	-121.740115 °	
DWR ID	DWR_RD2098_04_s_2014_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Looking downstream from this location weeds pose no problems.					

Photo 1 of 1 : FA_2015_RD2098_248_4_20151006_00002.jpg



Unit 4 looking downstream from levee mile 9.15 landside slope.

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					
Action/Comments					
Inspector Comments: 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

LM Start	9.49	Rating **	M	Issue No.	18
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					
Action/Comments					
Inspector Comments: FS_ID:32383 DS_ID:20983 EP_NO: N/A FS_HLM: 9.532 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: 03/19/2014					

Photo 1 of 2 : UCIP_FA_2015_3827.jpg



Shutoff valve visible 370-feet off LS toe.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	9.49	Rating **	M	Issue No.	18 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32383 DS_ID:20983 EP_NO: N/A FS_HLM: 9.532 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: 03/19/2014					

Photo 2 of 2 : UCIP_FA_2015_3828.jpg



Shutoff valve visible 370-feet off LS toe.

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				
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 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	9.77	Rating **	U	Issue No.	10
LM End	9.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.325080 °	38.325293 °	
			-121.740118 °	-121.740103 °	
DWR ID	DWR_RD2098_04_f_2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove the tall weeds from the waterside levee section.					

Photo 1 of 1 : FA_2015_RD2098_248_10_20151006_00003.jpg



From levee mile 9.77-9.79 tall weed growth on the waterside levee shoulder and slope.

LM Start	9.77	Rating **	M	Issue No.	11
LM End	10.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.325080 °	38.340840 °	
			-121.740118 °	-121.740810 °	
DWR ID	DWR_RD2098_04_f_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove the weeds and berry vines from the landside levee 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	11.07	Rating **	M	Issue No.	19
LM End	11.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.343608 °	38.343608 °
				-121.740836 °	-121.740836 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32403 DS_ID:20991 EP_NO: 12851 FS_HLM: 11.113 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Holes in pipe next to rail car bridge may indicate further deterioration of pipe through levee. 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: 03/19/2014					

Photo 1 of 3 : UCIP_FA_2015_3923.jpg



Holes in pipe next to bridge. PVC electrical conduit shown.

LM Start	11.07	Rating **	M	Issue No.	19 (cont)
LM End	11.07	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_3924.jpg



Pump on pier in irrigation canal off WS 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	11.07	Rating **	M	Issue No.	19 (cont)
LM End	11.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.343608 °	38.343608 °
				-121.740836 °	-121.740836 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32403 DS_ID:20991 EP_NO: 12851 FS_HLM: 11.113 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3925.jpg



Pipe and siphon breaker visible on LS at canal crossing.

LM Start	11.12	Rating **	U	Issue No.	20
LM End	11.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.344349 °	38.344349 °
				-121.740794 °	-121.740794 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42124 DS_ID:20995 EP_NO: 17842 FS_HLM: 11.16 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: 03/19/2014					

No Photos

LM Start	12.04	Rating **	M	Issue No.	16
LM End	12.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.357737 °	38.358107 °
				-121.740462 °	-121.740412 °
DWR ID	DWR_RD2098_04_f_2015_16				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side 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/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	12.04	Rating **	M	Issue No.	17
LM End	12.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.357737 °	38.358107 °
				-121.740462 °	-121.740412 °
DWR ID	DWR_RD2098_04_f_2015_17				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Mow the weeds from the waterside levee slope.					

No Photos

LM Start	12.05	Rating **	M	Issue No.	21
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					
Action/Comments					
Inspector Comments: FS_ID:32327 DS_ID:20989 EP_NO: 11564 FS_HLM: 12.095 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: 03/19/2014					

Photo 1 of 3 : UCIP_FA_2015_3625.jpg



Pipe rusted through at canal on LS toe.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	12.05	Rating **	M	Issue No.	21 (cont)
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 °
DWR ID				-121.740396 °	-121.740396 °
Action/Comments					
Inspector Comments: FS_ID:32327 DS_ID:20989 EP_NO: 11564 FS_HLM: 12.095 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: 03/19/2014					

Photo 2 of 3 : UCIP_FA_2015_3808.jpg



Pipe at canal on LS toe.

LM Start	12.05	Rating **	M	Issue No.	21 (cont)
LM End	12.05	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_FA_2015_3809.jpg



Siphon breaker in CMP riser on LS 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**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	22
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					
Action/Comments					
Inspector Comments: FS_ID:32326 DS_ID:20990 EP_NO: 5426-A FS_HLM: 12.0963 Repair Type: Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_3622.jpg



Pipe visible on WS slope.

LM Start	12.05	Rating **	U	Issue No.	22 (cont)
LM End	12.05	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3623.jpg



Concrete cattleguard 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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	22 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32326 DS_ID:20990 EP_NO: 5426-A FS_HLM: 12.0963 Repair Type: Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3624.jpg



Concrete distribution box on LS slope has slipped into canal.

LM Start	12.05	Rating **	U	Issue No.	23
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					
Action/Comments					
Inspector Comments: FS_ID:32325 DS_ID:21013 EP_NO: 5426-A FS_HLM: 12.097 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: 03/19/2014					

Photo 1 of 3 : UCIP_FA_2015_3619.jpg



Pipe visible on WS slope with pump pad on WS toe.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	23 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32325 DS_ID:21013 EP_NO: 5426-A FS_HLM: 12.097 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: 03/19/2014					

Photo 2 of 3 : UCIP_FA_2015_3620.jpg



Concrete cattle guard over pipe on crown.

LM Start	12.05	Rating **	U	Issue No.	23 (cont)
LM End	12.05	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_FA_2015_3621.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	12.07	Rating **	M	Issue No.	24
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					
Action/Comments					
Inspector Comments: FS_ID:32566 DS_ID:24845 EP_NO: N/A FS_HLM: 12.113 Repair Type: Non-Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_3713.jpg



Sign off LS toe on East side of canal.

LM Start	12.07	Rating **	M	Issue No.	24 (cont)
LM End	12.07	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3714.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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	09/23/2015 09/23/2015	Herman Phillips

LM Start	12.07	Rating **	M	Issue No.	24 (cont)
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					
Action/Comments					
Inspector Comments: FS_ID:32566 DS_ID:24845 EP_NO: N/A FS_HLM: 12.113 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3715.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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