

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0017_01_s_2013_7				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0017_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0017_01_s_2013_9				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in October 2019.					

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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Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	3.82	Rating **	M	Issue No.	21
LM End	3.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.144796 °	39.144796 °
				-122.906831 °	-122.906831 °
DWR ID	DWR_MA0017_01_f_2021_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Fill and compact burrows on the LS crown/slope.					

Photo 1 of 1 : FA_2021_MA0017_339_21_20211028_00049.jpg



Burrows on the LS slope and crown. Fall 2021

LM Start	3.83	Rating **	M	Issue No.	24
LM End	3.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.144748 °	39.144748 °
				-122.906759 °	-122.906759 °
DWR ID	DWR_MA0017_01_f_2021_24				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair rutting on WS crown/slope					

Photo 1 of 1 : FA_2021_MA0017_339_24_20211028_00050.jpg



Rutting on the WS crown/slope. Fall 2021

LM Start	3.84	Rating **	M	Issue No.	25
LM End	3.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.144695 °	39.144695 °
				-122.906668 °	-122.906668 °
DWR ID	DWR_MA0017_01_s_2017_25				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim the trees along the landside toe.					

Photo 1 of 1 : FA_2021_MA0017_339_25_20210823_00004.jpg



View of the trees along the LS levee toe. Spring 2021.

* 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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Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	3.95	Rating **	M	Issue No.	37	
LM End	3.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.143792 °	39.143792 °	
				-122.904798 °	-122.904798 °	
DWR ID	844					
Comment Code						
Inspector Comment						
DS_ID:844 FS_ID:58627 EP_NO: 11463 Repair Type: Non-Urgent EVAL Issue: Unauthorized Encroachment, installed decades prior Crossing Status: Found UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width through this section is about 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing has been updated from No Action Needed to Non-Urgent; owner has changed [State owns structure]. (O. Magana - DWR UCIP)10/19/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/14/2016 crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/23/2015 No issues with pipe. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 New flap gate installed. No other issues with pipe. (A. Freitag - DWR Sutter Yard)12/13/2012 Flap gate broken in half and inoperable. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Timber walkway on the landside (LS) slope to a timber walkway to pump house mounted on piles in drainage ditch. (24-inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11463, 1975 - Audrey Jones). [Additional Reference(s): DWR Levee Log, 2005 (HLM 3.99). USACE Sacramento O&M Manual, Unit 506 Part 2 (SAC506.2), August 1961, Revised 25 May 2011, (HLM 3.99), listed as 24-inch CMP]. FS Date: 10/9/2019 2:58:00 PM						

Photo 1 of 3 : UCIP_FA_2021_58627_46849.jpg



24-inch CMP at outlet 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	3.95	Rating **	M	Issue No.	37 (cont)
LM End	3.95	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.143792 °	39.143792 °	
			-122.904798 °	-122.904798 °	
DWR ID	844				

Photo 2 of 3 : UCIP_FA_2021_58627_46848.jpg



Pumphouse on piles at LS toe.

LM Start	3.95	Rating **	M	Issue No.	37 (cont)
LM End	3.95	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58627_46850.jpg



New flap gate on WS

LM Start	3.99	Rating **	M	Issue No.	22
LM End	3.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.143634 °	39.143634 °
				-122.904215 °	-122.904215 °
DWR ID	DWR_MA0017_01_s_2021_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2021_MA0017_339_22_20210823_00002.jpg



View of the trees along the LS levee toe. Spring 2021.

* 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	

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Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	4.13	Rating **	M	Issue No.	38	
LM End	4.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.142287 °	39.142287 °	
				-122.902436 °	-122.902436 °	
DWR ID	845					
Comment Code						
Inspector Comment						
DS_ID:845 FS_ID:58626 EP_NO: 11464 Repair Type: Non-Urgent EVAL Issue: Unauthorized Encroachment, installed decades prior Crossing Status: Found UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width through this section is about 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing has been updated from No Action Needed to Non-Urgent; owner has changed [State maintains structure]. (O. Magana - DWR UCIP)10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (O. Magana - DWR UCIP) 10/19/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/14/2016 crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/23/2015 No issues with pipe. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 1 of 2: 42-inch corrugated metal drainage pipe through the levee, 20.2 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005 (HLM 4.17). USACE Sacramento O&M Manual, Unit 506, Part 1 (SAC506.1) April 1961, and Part 2 (SAC506.2) August 1961, Revised 25 May 2011, (HLM 4.18), two 42-inch CMP -- referred to as Bloody Island Pumping Plant]. FS Date: 10/9/2019 2:59:00 PM						

Photo 1 of 3 : UCIP_FA_2021_58626_46853.jpg



Pumping Plant 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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Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	4.13	Rating **	M	Issue No.	38 (cont)
LM End	4.13	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.142287 °	39.142287 °	
			-122.902436 °	-122.902436 °	
DWR ID	845				

Photo 2 of 3 : UCIP_FA_2021_58626_46852.jpg



Slide gates in CMP risers on WS shoulder.

LM Start	4.13	Rating **	M	Issue No.	38 (cont)
LM End	4.13	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58626_46851.jpg



Pumping Plant on LS shoulder.

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	4.14	Rating **	M	Issue No.	39
LM End	4.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142262 °	39.142262 °
				-122.902423 °	-122.902423 °
DWR ID	852				
Comment Code					
Inspector Comment					
DS_ID:852 FS_ID:58625 EP_NO: 11464 Repair Type: Non-Urgent EVAL Issue: Unauthorized Encroachment, installed decades prior Crossing Status: Found UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width through this section is about 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing has been updated from No Action Needed to Non-Urgent; owner has changed [State maintains structure]. (O. Magana - DWR UCIP)10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (O. Magana - DWR UCIP) 10/19/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/14/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/23/2015 No issues with pipe. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 2 of 2: 42-inch corrugated metal drainage pipe through the levee, 14.6 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005 (HLM 4.17). USACE Sacramento O&M Manual, Unit 506, Part 1 (SAC506.1) April 1961, and Part 2 (SAC506.2) August 1961, Revised 25 May 2011, (HLM 4.18), two 42-inch CMP -- referred to as Bloody Island Pumping Plant]. FS Date: 10/9/2019 3:00:00 PM					

Photo 1 of 3 : UCIP_FA_2021_58625_46856.jpg



Pumping plant 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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Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	4.14	Rating **	M	Issue No.	39 (cont)
LM End	4.14	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.142262 °	39.142262 °	
			-122.902423 °	-122.902423 °	
DWR ID	852				

Photo 2 of 3 : UCIP_FA_2021_58625_46855.jpg



Slide gate in CMP riser on WS shoulder.

LM Start	4.14	Rating **	M	Issue No.	39 (cont)
LM End	4.14	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58625_46854.jpg



Pumping plant on LS shoulder.

LM Start	4.15	Rating **	M	Issue No.	26
LM End	4.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.142068 °	39.142068 °
				-122.902285 °	-122.902285 °
DWR ID	DWR_MA0017_01_f_2021_26				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Repair footpath on both slopes.					

Photo 1 of 1 : FA_2021_MA0017_339_26_20211028_00051.jpg



Footpath crossing levee. Fall 2021

* 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 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	4.16	Rating **	M	Issue No.	2
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.141894 °	39.120609 °
				-122.902201 °	-122.887166 °
DWR ID	DWR_MA0017_01_s_2012_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The crown is too narrow to drive and the access road follows the LS toe. Visual inspection of the WS and crown by periodically walking up to crown shows that maintenance is being performed on the crown and ~5' down the WS slope.					

Photo 1 of 1 : FA_2021_MA0017_339_2_20210823_00001.jpg



View of the narrow, grassy levee crown and trees along the WS levee slope. Spring 2021.

LM Start	4.35	Rating **	A/W	Issue No.	27
LM End	4.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.139235 °	39.139235 °
				-122.901924 °	-122.901924 °
DWR ID	DWR_MA0017_01_f_2021_27				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Monitor footpath for erosion.					

Photo 1 of 1 : FA_2021_MA0017_339_27_20211028_00052.jpg



Footpath on the LS slope. Fall 2021

LM Start	4.46	Rating **	M	Issue No.	28
LM End	4.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.137725 °	39.137567 °
				-122.901792 °	-122.901674 °
DWR ID	DWR_MA0017_01_f_2021_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair levee slope damaged by burrowing rodents.					

Photo 1 of 1 : FA_2021_MA0017_339_28_20211028_00053.jpg



Slope damage from burrowing rodents. Fall 2021

* 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 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.28	Rating **	M	Issue No.	30
LM End	5.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.127645 °	39.127645 °
				-122.894563 °	-122.894563 °
DWR ID	DWR_MA0017_01_f_2021_30				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression in the LS slope with separation on crown. Approximately 50' long x 10' wide					

Photo 1 of 2 : FA_2021_MA0017_339_30_20211028_00054.jpg



Depression on LS slope. Fall 2021

LM Start	5.28	Rating **	M	Issue No.	30 (cont)
LM End	5.28	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2021_MA0017_339_30_20211028_00055.jpg



Seperation on the crown. Fall 2021

* 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 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.34	Rating **	M	Issue No.	41	
LM End	5.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.127449 °		39.127449 °
				-122.893460 °		-122.893460 °
DWR ID	847					
Comment Code						
Inspector Comment						
DS_ID:847 FS_ID:58629 EP_NO: 11469 Repair Type: Non-Urgent EVAL Issue: Maintenance Compliance Issue Crossing Status: Found UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width ranges from 3 to 4-feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing remains Non-Urgent; sack ring built to control levee seepage has deteriorated and needs to be rebuilt or maintained. Pump station is maintained by RD2070. (O. Magana - DWR UCIP)10/19/2016 Sack ring still in place. (A. Freitag - DWR Sutter Yard)06/14/2016 Sack ring is still built up underneath the pipes. (A. Freitag - DWR Sutter Yard)04/23/2015 Sack ring is still built up underneath the pipes. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/13/2012 Flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through the levee, 5 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (one 16-inch and one 36-inch pipes [HLM 5.43] authorized under Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005 (HLM 5.43). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 5.43), listed as 16-inch pipe]. FS Date: 10/9/2019 3:02:00 PM						

Photo 1 of 3 : UCIP_FA_2021_58629_46860.jpg



Pumping plant, pipes, and ring levees on LS toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.34	Rating **	M	Issue No.	41 (cont)
LM End	5.34	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.127449 °	39.127449 °	
			-122.893460 °	-122.893460 °	
DWR ID	847				

Photo 2 of 3 : UCIP_FA_2021_58629_46859.jpg



16-inch pipe, flap gate, air vent, and ring levee on WS slope.

LM Start	5.34	Rating **	M	Issue No.	41 (cont)
LM End	5.34	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58629_82279.jpg



Overview of access road looking u/s towards pipe crossings.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.35	Rating **	M	Issue No.	42	
LM End	5.35	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.127451 °	39.127451 °	
				-122.893450 °	-122.893450 °	
DWR ID	853					
Comment Code						
Inspector Comment						
DS_ID:853 FS_ID:58630 EP_NO: 11469 Repair Type: Non-Urgent EVAL Issue: Maintenance Compliance Issue Crossing Status: Found UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width ranges from 3 to 4-feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing remains Non-Urgent; sack ring built to control levee seepage has deteriorated and needs to be rebuilt or maintained. Pump station is maintained by RD2070. (O. Magana - DWR UCIP)10/19/2016 Sack ring still in place. (A. Freitag - DWR Sutter Yard)06/14/2016 Sack ring is still built up underneath the pipes. (A. Freitag - DWR Sutter Yard)04/23/2015 Sack ring still built up underneath the pipes. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainage pipe through the levee, 5 feet below the crown. Flap gate and air vent on the waterside (WS) slope. (one 36-inch and one 16-inch pipes [HLM 5.43] authorized under Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005 (HLM 5.43). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 5.43), listed as 36-inch pipe]. FS Date: 10/9/2019 3:03:00 PM						

Photo 1 of 3 : UCIP_FA_2021_58630_46864.jpg



Pipes and pump house on LS toe with ring levees.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.35	Rating **	M	Issue No.	42 (cont)
LM End	5.35	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.127451 °	39.127451 °	
			-122.893450 °	-122.893450 °	
DWR ID	853				

Photo 2 of 3 : UCIP_FA_2021_58630_46863.jpg



Pipe, flap gate, air vent, and sandbags on WS slope.

LM Start	5.35	Rating **	M	Issue No.	42 (cont)
LM End	5.35	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58630_82287.jpg



Overview of access road looking u/s towards pipe crossings.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.78	Rating **	M	Issue No.	43
LM End	5.78	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.127612 °	39.127612 °	
			-122.885520 °	-122.885520 °	

DWR ID	848
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Comment Code	
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Inspector Comment	
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DS_ID:848
FS_ID:58631
EP_NO: 11457
Repair Type: Non-Urgent
EVAL Issue: Geophysical Evaluation (Confirmed)
Crossing Status: Found
UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width ranges from 3 to 4-feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing remains Non-Urgent; crossing has been abandoned, no riser lid or slide gate wheel are present. DWR DMP geophysical investigation found signals of potential metal pipe through this section of the levee. Owner will need coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. (O. Magana - DWR UCIP)

10/19/2016 No riser lid or slide gate wheel. (A. Freitag - DWR Sutter Yard)06/14/2016 No riser lid and no wheel to operate screw gate. (A. Freitag - DWR Sutter Yard)04/23/2015 No cover on riser and no wheel to operate gate. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Handle to operate gate was in place but still no cover on riser. (A. Freitag - DWR Sutter Yard)12/13/2012 No cover on CMP riser and no handle for actuating gate. This may or may not be an issue. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 24-inch drainage pipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landside (LS) end. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Riser unit is mounted on concrete base. (24-inch pipe [HLM 5.87] authorized under Automatic Board Order (ABO) issued as Permit No. 11457, 1975 - Crawford). [Additional Reference(s): DWR Levee Log, 2005 (HLM 5.87). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 5.87), listed as 24-inch pipe].
FS Date: 10/9/2019 3:04:00 PM

Photo 1 of 3 : UCIP_FA_2021_58631_46866.jpg



36-inch CMP riser and slide gate on WS slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.78	Rating **	M	Issue No.	43 (cont)
LM End	5.78	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.127612 °	39.127612 °	
			-122.885520 °	-122.885520 °	
DWR ID	848				

Photo 2 of 3 : UCIP_FA_2021_58631_46865.jpg



Approximate location of inlet on LS toe (not visible).

LM Start	5.78	Rating **	M	Issue No.	43 (cont)
LM End	5.78	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58631_82295.jpg



LS view: overview of LS slope.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.96	Rating **	M	Issue No.	44
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126322 °	39.126322 °
				-122.882764 °	-122.882764 °
DWR ID	849				
Comment Code					
Inspector Comment					
DS_ID:849 FS_ID:58632 EP_NO: 11467 Repair Type: Non-Urgent EVAL Issue: Unauthorized Encroachment, installed decades prior Crossing Status: Found UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width is about 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing has been updated from No Action Needed to Non-Urgent; need to audit record to confirm if ABO lists current owner for this structure. (O. Magana - DWR UCIP)10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (O. Magana - DWR UCIP) 10/19/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/14/2016 Flap gate propped open. Will make sure its closed before flood season. (A. Freitag - DWR Sutter Yard)04/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: [Highland Canal Diversion Weir and Drainage] 1 of 2: 54-inch corrugated metal drainage pipe through the levee 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (two 54-inch pipes [HLM 6.05] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005 (HLM 6.05). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 6.05), listed as two 54-inch pipes]. FS Date: 10/9/2019 3:05:00 PM					

Photo 1 of 3 : UCIP_FA_2021_58632_46869.jpg



Concrete weir/dam and channel on LS toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.96	Rating **	M	Issue No.	44 (cont)
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.126322 °	39.126322 °	
			-122.882764 °	-122.882764 °	
DWR ID	849				

Photo 2 of 3 : UCIP_FA_2021_58632_46868.jpg



pipe and flap gate on WS toe.

LM Start	5.96	Rating **	M	Issue No.	44 (cont)
LM End	5.96	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58632_46867.jpg



Concrete headwall at inlet 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.96	Rating **	M	Issue No.	45
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126298 °	39.126298 °
				-122.882756 °	-122.882756 °
DWR ID	854				

Comment Code

Inspector Comment

DS_ID:854
FS_ID:58608
EP_NO: 11467
Repair Type: Non-Urgent
EVAL Issue: Unauthorized Encroachment, installed decades prior
Crossing Status: Found
UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width is about 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing has been updated from No Action Needed to Non-Urgent; need to audit record to confirm if ABO lists current owner for this structure. (O. Magana - DWR UCIP)10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (O. Magana - DWR UCIP) 10/19/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/14/2016 Flap gate propped open. Will make sure its closed before flood season. (A. Freitag - DWR Sutter Yard)04/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: [Highland Canal Diversion Weir and Drainage] 2 of 2: 54-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (two 54-inch pipes [HLM 6.05] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005 (HLM 6.05). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 6.05), listed as two 54-inch pipes]. FS Date: 10/9/2019 3:06:00 PM

Photo 1 of 3 : UCIP_FA_2021_58608_46872.jpg



Concrete dam/weir and channel on LS toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	5.96	Rating **	M	Issue No.	45 (cont)
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126298 °	39.126298 °
				-122.882756 °	-122.882756 °
DWR ID	854				

Photo 2 of 3 : UCIP_FA_2021_58608_46871.jpg



Pipe and flap gate on WS toe.

LM Start	5.96	Rating **	M	Issue No.	45 (cont)
LM End	5.96	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58608_46870.jpg



Concrete headwall on LS toe.

LM Start	5.99	Rating **	C	Issue No.	36
LM End	6.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.126080 °	39.126210 °
				-122.883090 °	-122.884348 °
DWR ID	DWR_MA0017_01_s_2021_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation captured in issue 2.					

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
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N/A : Not Applicable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	6.00	Rating **	U	Issue No.	49
LM End	6.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID	850				

Comment Code

Inspector Comment

DS_ID:850
FS_ID:58637
EP_NO: 11467
Repair Type: Urgent
EVAL Issue:
Crossing Status: Found
UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width is more than 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing remains Urgent; WS erosion is still present along WS slope. This crossing has been modified. It appears that this pipe is conveying water from WS to LS and LS to WS. Recommend auditing record to determine current owner. (O. Magana - DWR UCIP)09/06/2018 Same as last inspection; WS erosion is still present so the crossing remains Urgent. (D. Sanoski - DWR UCIP).10/19/2016 WS erosion still present. (A. Freitag - DWR Sutter Yard)06/14/2016 WS erosion is still present. (A. Freitag - DWR Sutter Yard)04/23/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/13/2012 The pipe and appurtenances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2 feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electrical panel, along with multiple valves and appurtenances, on the LS shoulder. (12-inch pipe [HLM 6.11] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - B. F. Modglin). [Additional Reference(s): DWR Levee Log, 2005 (HLM 6.11). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 6.11), listed as 12-inch pipe].
FS Date: 10/9/2019 2:56:00 PM

Photo 1 of 3 : UCIP_FA_2021_58637_46882.jpg



12-inch pipe and appurtenances on WS shoulder.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	6.00	Rating **	U	Issue No.	49 (cont)
LM End	6.00	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.126027 °	39.126027 °	
			-122.883371 °	-122.883371 °	
DWR ID	850				

Photo 2 of 3 : UCIP_FA_2021_58637_46881.jpg



12-inch pipe and appurtenances on WS shoulder.

LM Start	6.00	Rating **	U	Issue No.	49 (cont)
LM End	6.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58637_46880.jpg



Pumping plant and appurtenances on LS shoulder.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	7.16	Rating **	M	Issue No.	50
LM End	7.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID	851				

Comment Code

Inspector Comment

DS_ID:851
 FS_ID:58638
 EP_NO: 11467
 Repair Type: Non-Urgent
 EVAL Issue: Unauthorized Encroachment, installed decades prior
 Crossing Status: Found
 UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width is about 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing remains Non-Urgent; crossing has been abandoned. Owner will need coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. (O. Magana - DWR UCIP)10/19/2016
 Abandoned- should be done so properly. (A. Freitag - DWR Sutter Yard)06/14/2016 Abandoned crossing. (A. Freitag - DWR Sutter Yard)04/23/2015 Same as last inspection. Pipe still needs to be properly abandoned. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/13/2012 Pipe should be properly abandoned. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through the levee, 8 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. Steel plate welded on end of pipe at LS toe. (one 16-inch and one 24-inch pipes [HLM 7.79] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005 (HLM 7.19). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 7.19), listed as 16-inch pipe].
 FS Date: 10/9/2019 3:11:00 PM

Photo 1 of 3 : UCIP_FA_2021_58638_46884.jpg



Pumping plant in shed on LS at drainage ditch.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	7.16	Rating **	M	Issue No.	50 (cont)
LM End	7.16	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.120083 °	39.120083 °	
			-122.886502 °	-122.886502 °	
DWR ID	851				

Photo 2 of 3 : UCIP_FA_2021_58638_46883.jpg



Steel plate welded over end of pipe at LS toe.

LM Start	7.16	Rating **	M	Issue No.	50 (cont)
LM End	7.16	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58638_82325.jpg



Overview of levee crown looking u/s towards pipe crossing.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	7.16	Rating **	M	Issue No.	51	
LM End	7.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.120069 °		39.120069 °
				-122.886484 °		-122.886484 °
DWR ID	855					
Comment Code						
Inspector Comment						
DS_ID:855 FS_ID:58639 EP_NO: 11467 Repair Type: Non-Urgent EVAL Issue: Unauthorized Encroachment, installed decades prior Crossing Status: Found UCIP Comments: 10/09/2019 The levee is maintained by DWR Sutter Yard. The State is currently working on purchasing adjacent land to eventually pursue the de-activation of this levee. Levee crown width is about 12 feet. The UCIP inspection was completed with DWR Inspector, L. Dial, and DWR Sutter Yard Supervisor, B. Reniff. Crossing remains Non-Urgent; crossing has been abandoned. Owner will need coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. (O. Magana - DWR UCIP)10/19/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/14/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/23/2015 No issues seen with pipe. (A. Freitag - DWR Sutter Yard)07/03/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)08/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 8 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (one 16-inch and one 24-inch pipes [HLM 7.79] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005 (HLM 7.19). USACE Sacramento O&M Manual, Unit 506 Part 3 (506.3), 1967, (HLM 7.19), listed as 24-inch pipe]. FS Date: 10/9/2019 3:12:00 PM						

Photo 1 of 3 : UCIP_FA_2021_58639_46886.jpg



24-inch steel pipe and pump house on LS.

* 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/28/2021 10/28/2021	Marvin Marshall

LM Start	7.16	Rating **	M	Issue No.	51 (cont)
LM End	7.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120069 °	39.120069 °
				-122.886484 °	-122.886484 °
DWR ID	855				

Photo 2 of 3 : UCIP_FA_2021_58639_46885.jpg



Air vent on pipe at LS pumphouse.

LM Start	7.16	Rating **	M	Issue No.	51 (cont)
LM End	7.16	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2021_58639_82331.jpg



WS view: overview of WS.

* 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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