

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet**

Sutter Maintenance Yard Maintenance Area 0013

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet**

Sutter Maintenance Yard Maintenance Area 0013

Waterway			Bank	Unit Miles
Unit No. 01 Cherokee Canal			Right	18.19
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2021 - 3/24/2021			
DWR Inspector	Makar Sokol			
Accompanied By	Bob Duffey Sutter Maintenance Yard			

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_1				
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 *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0013_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.	16
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_16				
Comment Code					
Inspector Comment					
The LMA completes flood fight training annually.					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.27	Rating **	U	Issue No.	2
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.593094 °	39.593094 °
				-121.703570 °	-121.703570 °
DWR ID	16327				

Comment Code

Inspector Comment

FS_ID:57514
DS_ID:16327
EP_NO: 6135
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Crossing remains Urgent because of the levee erosion on both the WS and LS. Need to contact owner to address the open section to levee and determine if the pipe is still leaking. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 Same as last inspection; crossing remains Urgent because levee erosion on both WS and LS still present (D. Sanoski - DWR UCIP).06/14/2017 LS slope still dug away from around the pipe. Appears no repairs have been made to the pipe yet. (A. Freitag - DWR Sutter Yard)11/16/2016 Appears no repairs have been made here yet as LS slope is still dug away. (A. Freitag - DWR Sutter Yard)04/28/2016 8-inch pipe was running water but was leaking at a weld joint on the LS slope. Pipe appears to have been dug out by the landowner but unsure if repairs are being made yet. (see photo 5) (A. Freitag - DWR Sutter Yard)07/14/2015 Pipe end is still welded solid. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 2.8 feet below the crown. Permit requirements are as follow: during the flood season the 5-inch irrigation pipe will be removed and a plate bolted over the waterside (WS) end of the 8-inch. Pipe section is completely buried. Current configuration does not allow for 5-inch irrigation pipe to slide pipe through. 8-inch pipe is welded solid. (8-inch pipe authorized under Permit No. 6135, 1968 - George Washington)
[Additional Reference(s): DWR Levee Log, 1993 (HLM 0.29)]
FS Date: 8/6/2019 8:33:00 AM

Photo 1 of 3 : UCIP_SP_2021_57514_66680.jpg



Overview of the crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.27	Rating **	U	Issue No.	2 (cont)
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.593094 °	39.593094 °	
			-121.703570 °	-121.703570 °	
DWR ID	16327				

Photo 2 of 3 : UCIP_SP_2021_57514_66683.jpg



Air Vent located on WS.

LM Start	0.27	Rating **	U	Issue No.	2 (cont)
LM End	0.27	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57514_66681.jpg



Air vent and gate located in channel. Unable to determine if part of crossing.

LM Start	0.40	Rating **	M	Issue No.	81
LM End	0.40	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.591504 °	39.591504 °
				-121.702985 °	-121.702985 °
DWR ID	DWR_MA0013_01_f_2020_81				
Comment Code					
PR : Prunings					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.44	Rating **	M	Issue No.	80
LM End	0.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.591260 °	39.591260 °
				-121.702181 °	-121.702181 °
DWR ID	DWR_MA0013_01_f_2020_80				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	0.50	Rating **	M	Issue No.	4	
LM End	0.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.590968 °	39.590968 °	
				-121.701240 °	-121.701240 °	
DWR ID	16342					
Comment Code						
Inspector Comment						
FS_ID:57515 DS_ID:16342 EP_NO: 12129 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Need to contact owner to address proper abandonment per Title 23. Owner will need to coordinate with CVFPB. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Abandoned- needs to be done properly. (A. Freitag - DWR Sutter Yard)11/16/2016 Abandoned. WS end still has plate bolted on. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing still has plate bolted on it at the WS end and LS end was mostly buried. (A. Freitag - DWR Sutter Yard)07/14/2015 WS pipe end still had plate bolted on it. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/12/2012 WS pipe daylight has bolted plate. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 2.4 feet below the crown. Steel plate bolted on the waterside (WS) end. (5-inch water pipe authorized under Permit No. 12129, 12129A, 1977 - John & Jerie Malina) [Additional Reference(s): DWR Levee Log, 1993 (HLM 0.52)] FS Date: 8/6/2019 8:35:00 AM						

Photo 1 of 3 : UCIP_SP_2021_57515_66686.jpg



View of levee crown at crossing looking downstream at right bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.50	Rating **	M	Issue No.	4 (cont)
LM End	0.50	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.590968 °	39.590968 °	
			-121.701240 °	-121.701240 °	
DWR ID	16342				

Photo 2 of 3 : UCIP_SP_2021_57515_66684.jpg



WS-Bolted plate

LM Start	0.50	Rating **	M	Issue No.	4 (cont)
LM End	0.50	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57515_66685.jpg



LS-Outlet

LM Start	0.63	Rating **	M	Issue No.	46
LM End	0.63	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.589337 °	39.589337 °
				-121.700604 °	-121.700604 °
DWR ID	DWR_MA0013_01_f _ 2016_46				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.63	Rating **	M	Issue No.	14
LM End	1.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.589272 °	39.581472 °
				-121.700599 °	-121.700518 °
DWR ID	DWR_MA0013_01_s_2012_14				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

LM Start	0.73	Rating **	M	Issue No.	12
LM End	0.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.587905 °	39.587505 °
				-121.700822 °	-121.700880 °
DWR ID	DWR_MA0013_01_s_2012_12				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the equipment from the landside toe.					

Photo 1 of 1 : SP_2021_MA0013_300_12_20210224_00003.jpg



View of the equipment along the landside toe of the levee.

LM Start	0.83	Rating **	M	Issue No.	61
LM End	0.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.586417 °	39.586417 °
				-121.700585 °	-121.700585 °
DWR ID	DWR_MA0013_01_f _ 2018_61				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP_2021_MA0013_300_61_20210224_00007.jpg



View of the prunings along the landside 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.94	Rating **	M	Issue No.	79
LM End	0.94	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.584874 °	39.584874 °
				-121.700497 °	-121.700497 °
DWR ID	DWR_MA0013_01_f _ 2020_79				
Comment Code					
PR : Prunings					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	5
LM End	1.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.582147 °	39.582147 °
				-121.700540 °	-121.700540 °
DWR ID	16343				
Comment Code					
Inspector Comment					
FS_ID:58576 DS_ID:16343 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, due to unauthorized encroachment. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/17/2012 Drain is still in use. 4 inch pipe in channel near WS headwall (see photo). The pipe does not appear to impact the crossing. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 8.6 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS). Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 1.15). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 1.15), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 1072+20E, page 20 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/6/2019 8:46:00 AM					

Photo 1 of 3 : UCIP_SP_2021_58576_66689.jpg



Overview of levee crown at crossing looking D/S .

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	5 (cont)	
LM End	1.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.582147 °		39.582147 °
				-121.700540 °		-121.700540 °
DWR ID	16343					

Photo 2 of 3 : UCIP_SP_2021_58576_66688.jpg



View of WS headwall and flap gate.

LM Start	1.13	Rating **	M	Issue No.	5 (cont)
LM End	1.13	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58576_66687.jpg



View of WS with pipe in channel.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.59	Rating **	M	Issue No.	6
LM End	1.59	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.576883 °	39.576883 °	
			-121.702770 °	-121.702770 °	
DWR ID	16831				

Comment Code

Inspector Comment

FS_ID:58462
DS_ID:16831
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record remains Non-Urgent, need to clarify owner for this crossing. This pipe has been identified as an LMA responsible drainage pipe. However, adjacent property owner has modified the WS outlet by burying the concrete headwall. No permit has been found authorizing the modification to the WS. LMA and adjacent property owner will need to coordinate with the CVFPB to comply with Title 23. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 Same as last inspection; still no sign of WS pipe end. Unclear if this SD crossing is still in use. The WS toe has standing, mucky, water around where the pipe end should be. Downgrading to Non-Urgent from Urgent because there appears no immediate threat to levee. Recommend follow up with owner to determine pipe use, and an internal pipe inspection to determine pipe integrity and threat to levee. (D. Sanoski - DWR UCIP)06/14/2017 Still no sign of WS pipe end. Pipe may need to be traced with GPR and excavated to determine if the WS end was properly capped after the Headwall and pipe sections were removed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 WS structures still removed. (A. Freitag - DWR Sutter Yard)10/17/2016 Landowner removed WS concrete headwall and pipe section through floodway to make room for orchard. The area disturbed appears to be from WS toe to where the mature trees are located within floodway, approximately 45 feet from WS toe. Crossing is classified as Urgent with potential levee integrity issues due to the disturbance of the WS without prior approval from the CVFPB. (O. Magana - DWR UCIP) 04/28/2016 Landowner appears to have removed the WS headwall and pipe to make room for planting more orchard trees. LS pipe end was full of water as it has no where to drain to anymore. Changing to urgent listing but it currently does not affect the levee integrity. (see photos 8, 9, & 10) (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (A. Freitag - DWR Sutter Yard) 04/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s):

Photo 1 of 3 : UCIP_SP_2021_58462_66695.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

DWR Levee Log, 1993 (HLM 1.61), listed as 26-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 1.62), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 1049+53E, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/6/2019 8:50:00 AM

LM Start	1.59	Rating **	M	Issue No.	6 (cont)
LM End	1.59	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2021_58462_66699.jpg



Corrugated metal riser with slide gate located on WS slope.

LM Start	1.59	Rating **	M	Issue No.	6 (cont)
LM End	1.59	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58462_66698.jpg



WS headwall, rock protection, and outlet blocked by shrub.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.66	Rating **	M	Issue No.	9
LM End	1.66	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.575816 °	39.575816 °	
			-121.702900 °	-121.702900 °	
DWR ID	16345				

Comment Code

Inspector Comment

FS_ID:58463
DS_ID:16345
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record remains Non-Urgent, pipe has been abandoned. Crossing needs to be abandoned properly per Title 23. No owner has been identified for this crossing. Recommend adding cover to riser as a safety measure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 PVC pipe still present blocking screw gate. LS inlet of the 24" cmp pipe is about 75% blocked by sediment. (A. Freitag - DWR Sutter Yard)11/16/2016 PVC pipe still present blocking the screw gate. (A. Freitag - DWR Sutter Yard)04/28/2016 Pvc pipe is still present through the crossing. Slide gate cannot shut fully. (A. Freitag - DWR Sutter Yard)07/14/2015 4-inch pipe still present and blocking the screw gate. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/17/2012 Crossing has 4-inch pipe inside blocking positive closure/notify landowner to remove prior to flood season. LS crossing is blocked about 50% by sediment build up. Burrow activity present on LS near crossing. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 7.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS). 36-inch concrete standpipe in the channel with 2 piles to deflect debris (39.576614, -121.7009). [Additional Reference(s): DWR Levee Log, 1993 (HLM 1.68). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 1.69), listed as 24-inch pipe, no as-built referenced found]
FS Date: 8/6/2019 9:20:00 AM

Photo 1 of 3 : UCIP_SP_2021_58463_66700.jpg



Overview of levee at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.66	Rating **	M	Issue No.	9 (cont)	
LM End	1.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.575816 °	39.575816 °	
				-121.702900 °	-121.702900 °	
DWR ID	16345					

Photo 2 of 3 : UCIP_SP_2021_58463_66704.jpg



WS view looking upstream.

LM Start	1.66	Rating **	M	Issue No.	9 (cont)
LM End	1.66	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58463_66702.jpg



Positive closure device on WS slope, panel lid fell in.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.31	Rating **	M	Issue No.	11
LM End	2.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566433 °	39.566433 °
				-121.703750 °	-121.703750 °
DWR ID	16346				

Comment Code

Inspector Comment

FS_ID:58464
DS_ID:16346
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record remains Non-Urgent, pipe has been abandoned. Crossing needs to be abandoned properly per Title 23. No owner has been identified for this irrigation pipe. Recommend adding cover to riser as a safety measure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Still no LS inlet visible- trace with locator/GPR to try and locate. Wooden debris down inside of WS standpipe. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Appears abandoned. Unable to find anything on LS. (A. Freitag - DWR Sutter Yard)04/28/2016 Appears to be an abandoned crossing. LS headwall and pipe inlet are still completely buried. (A. Freitag - DWR Sutter Yard)07/14/2015 Still cannot find an inlet or outlet. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/17/2012 Non functional crossing due to LS headwall buried. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0119 for no inlet or outlet visible. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee 7.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Pipe continues across channel. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.35). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 2 Feb 2011, (HLM 2.35), listed as 24-inch pipe, no as-built referenced found]
FS Date: 8/6/2019 9:30:00 AM

Photo 1 of 3 : UCIP_SP_2021_58464_66708.jpg



Overview of crossing looking DS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.31	Rating **	M	Issue No.	11 (cont)
LM End	2.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566433 °	39.566433 °
				-121.703750 °	-121.703750 °
DWR ID	16346				

Photo 2 of 3 : UCIP_SP_2021_58464_66709.jpg



Corrugated riser located on WS slope.

LM Start	2.31	Rating **	M	Issue No.	11 (cont)
LM End	2.31	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58464_66707.jpg



Corrugated metal riser on WS slope. Lid panel blocking gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.70	Rating **	M	Issue No.	13	
LM End	2.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.561130 °	39.561130 °	
				-121.705140 °	-121.705140 °	
DWR ID	16347					
Comment Code						
Inspector Comment						
FS_ID:58465 DS_ID:16347 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, no permit identified. Crossing is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/17/2012 Vegetation/sedimentation from WS has been removed. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0130 for WS flap gate closed and blocked by sediment. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.74). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 2.74), listed as 24-inch pipe, no as-built referenced found] FS Date: 8/6/2019 9:39:00 AM						

Photo 1 of 3 : UCIP_SP_2021_58465_66715.jpg



Overview of levee crown looking downstream at crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.70	Rating **	M	Issue No.	13 (cont)
LM End	2.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.561130 °	39.561130 °
				-121.705140 °	-121.705140 °
DWR ID	16347				

Photo 2 of 3 : UCIP_SP_2021_58465_66714.jpg



Flap gate at WS.

LM Start	2.70	Rating **	M	Issue No.	13 (cont)
LM End	2.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58465_66711.jpg



View of channel.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	17	
LM End	3.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.556310 °	39.556310 °	
				-121.706470 °	-121.706470 °	
DWR ID	17372					
Comment Code						
Inspector Comment						
FS_ID:58466 DS_ID:17372 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record remains Non-Urgent, no permit identified authorizing pipe. Pipe has been internally cleaned and cleared of any obstructions on the WS and LS. DMP internal inspection pending. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is completely buried by sediment-needs to be dug out. Pipe is about 50% full of sediment inside. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Pipe about 50% full of sediment. (A. Freitag - DWR Sutter Yard)04/28/2016 Pipe on LS is about 50% full of sediment. There is now a concrete pipe that discharges into the LS inlet of this crossing. Not sure where the concrete pipe comes from. (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (A. Freitag - DWR Sutter Yard)07/15/2013 Pipe appears to have a possible hole in top of pipe about 10ft. in from LS headwall. (A. Freitag - DWR Sutter Yard)04/17/2012 LS headwall blocked by sediment (50 % of opening is covered). LS floor is higher than LS pipe invert. WS headwall has been recently cleared of vegetation and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0157 for WS and LS inlet/outlet blocked by sediment. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.8 feet below the crown. Flap gate is located on the waterside (WS). Concrete headwall located on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.07), listed as 24-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.10), listed as 36-inch pipe, no as-built referenced found] FS Date: 8/6/2019 9:47:00 AM						

Photo 1 of 3 : UCIP_SP_2021_58466_66718.jpg



Overview of levee crown looking downstream at crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	17 (cont)	
LM End	3.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.556310 °	39.556310 °	
				-121.706470 °	-121.706470 °	
DWR ID	17372					

Photo 2 of 3 : UCIP_SP_2021_58466_66716.jpg



WS levee slope.

LM Start	3.05	Rating **	M	Issue No.	17 (cont)
LM End	3.05	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58466_66720.jpg



Flap gate on waterside.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.24	Rating **	M	Issue No.	19
LM End	3.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.553490 °	39.553490 °
				-121.706680 °	-121.706680 °
DWR ID	16349				

Comment Code

Inspector Comment

FS_ID:58577
DS_ID:16349
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record remains Non-Urgent, no permit found authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both pipe ends and gates are mostly buried- need to be dug out. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Both gates closed but partially buried and unable to open. (A. Freitag - DWR Sutter Yard)04/28/2016 Sediment build up on both gates blocking them from operating properly. (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Stem on LS screw gate has been replaced and is now full functional. (A. Freitag - DWR Sutter Yard)04/17/2012 LS slide gate stem is bent and prevents gate from fully closing. Both WS and LS have been cleared of debris and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0162 for inoperable gates on WS & LS due to sediment and grass blocking inlet and outlet. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 8.9 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate visible on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.29). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.29), listed as 24-inch pipe, no as-built referenced found]
FS Date: 8/6/2019 10:02:00 AM

Photo 1 of 3 : UCIP_SP_2021_58577_66725.jpg



Overview of levee crown looking DS at crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.24	Rating **	M	Issue No.	19 (cont)
LM End	3.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.553490 °	39.553490 °
				-121.706680 °	-121.706680 °
DWR ID	16349				

Photo 2 of 3 : UCIP_SP_2021_58577_66724.jpg



Flap gate on WS.

LM Start	3.24	Rating **	M	Issue No.	19 (cont)
LM End	3.24	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58577_66726.jpg



Recent sediment removal on WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	20	
LM End	3.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.553129 °	39.553129 °	
				-121.706640 °	-121.706640 °	
DWR ID	16350					
Comment Code						
Inspector Comment						
FS_ID:58578 DS_ID:16350 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is buried by sediment- needs to be dug out. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/17/2012 WS headwall has been cleared of debris and sedimentation. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 8.4 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.31). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.31), listed as 24-inch pipe, no as-built referenced found] FS Date: 8/6/2019 10:03:00 AM						

Photo 1 of 3 : UCIP_SP_2021_58578_66731.jpg



Overview of levee crown at crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	20 (cont)
LM End	3.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.553129 °	39.553129 °
				-121.706640 °	-121.706640 °
DWR ID	16350				

Photo 2 of 3 : UCIP_SP_2021_58578_66730.jpg



View of WS flap gate.

LM Start	3.27	Rating **	M	Issue No.	20 (cont)
LM End	3.27	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58578_66732.jpg



Sedimentation cleared on WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.72	Rating **	M	Issue No.	21	
LM End	3.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.546592 °	39.546592 °	
				-121.707560 °	-121.707560 °	
DWR ID	16351					
Comment Code						
Inspector Comment						
FS_ID:58469 DS_ID:16351 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Crossing is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both pipe ends were underwater during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Both sides of the crossing were underwater during time of inspection. (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugate metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.80). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.80), listed as 24-inch pipe, no as-built referenced found] FS Date: 8/26/2019 12:22:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58469_66736.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.72	Rating **	M	Issue No.	21 (cont)	
LM End	3.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.546592 °	39.546592 °	
				-121.707560 °	-121.707560 °	
DWR ID	16351					

Photo 2 of 3 : UCIP_SP_2021_58469_66738.jpg



WS slope covered by dense vegetation.

LM Start	3.72	Rating **	M	Issue No.	21 (cont)
LM End	3.72	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58469_66735.jpg



WS flap gate

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.74	Rating **	M	Issue No.	22
LM End	3.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID	16365				

Comment Code

Inspector Comment

FS_ID:58470
DS_ID:16365
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, pipe has been abandoned. No permit has been identified for this crossing. DMP internal inspection has not been completed. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Appears abandoned-needs to be done properly. WS gate was buried/submerged and the LS slide gate is still damaged and buried. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Both LS and WS gates buried. (A. Freitag - DWR Sutter Yard)04/28/2016 Abandoned crossing. Ls screw is still bent and mostly buried. (A. Freitag - DWR Sutter Yard)07/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over. (A. Freitag - DWR Sutter Yard)04/18/2012 LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.80). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.82), listed as 24-inch pipe, no as-built referenced found]
FS Date: 8/26/2019 12:24:00 PM

Photo 1 of 3 : UCIP_SP_2021_58470_66743.jpg



Overview of levee crown at crossing looking downstream.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.74	Rating **	M	Issue No.	22 (cont)
LM End	3.74	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.546317 °	39.546317 °	
			-121.707510 °	-121.707510 °	
DWR ID	16365				

Photo 2 of 3 : UCIP_SP_2021_58470_66741.jpg



WS flap gate blocked by debris.

LM Start	3.74	Rating **	M	Issue No.	22 (cont)
LM End	3.74	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58470_66742.jpg



LS slide gate covered with silt. Slide gate is bent.

LM Start	4.06	Rating **	M	Issue No.	18
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.541660 °	39.540651 °
				-121.707408 °	-121.707404 °
DWR ID	DWR_MA0013_01_s_2013_18				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_300_18_20210224_00004.jpg



View of the trees along the landside slope. Spring 2020.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.33	Rating **	M	Issue No.	23
LM End	4.33	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537820 °	39.537820 °
				-121.707480 °	-121.707480 °
DWR ID	16353				

Comment Code

Inspector Comment

FS_ID:57531
DS_ID:16353
EP_NO: 6084
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, maintenance required. Sign is down on LS. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/14/2015 Crossing appears in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Visible marker on LS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: Underground telephone cable, 1.5-inch through the levee at approximately 2 feet below the crown. (buried cable authorized to go through Cherokee Canal and across Cottonwood Creek under Permit No. 6084, 1968 - Pacific Telephone and Telegraph Company [PT&T]) Contact No. listed in case of emergencies is 1-800-642-2444. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.41)]
FS Date: 8/26/2019 12:25:00 PM

LM Start	4.33	Rating **	M	Issue No.	23 (cont)
LM End	4.33	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_57531_66747.jpg



Visible marker for underground cable on LS.

Photo 2 of 3 : UCIP_SP_2021_57531_75003.jpg



Marker sign with contact info

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.33	Rating **	M	Issue No.	23 (cont)
LM End	4.33	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537820 °	39.537820 °
				-121.707480 °	-121.707480 °
DWR ID	16353				

Photo 3 of 3 : UCIP_SP_2021_57531_80281.jpg



Overview of levee crown looking d/s towards crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.35	Rating **	M	Issue No.	24
LM End	4.35	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.537516 °	39.537516 °	
			-121.707580 °	-121.707580 °	
DWR ID	16341				

Comment Code

Inspector Comment

FS_ID:58471
DS_ID:16341
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is shut but blocked by sediment- needs to be dug out. LS slide gate has some minor sediment built up against it. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Minor debris on landside inlet. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0189 for sediment and grass blocking WS and LS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.43). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 4.43), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 891+52E, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:26:00 PM

Photo 1 of 3 : UCIP_SP_2021_58471_66752.jpg



Overview of levee crown at crossing looking upstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.35	Rating **	M	Issue No.	24 (cont)
LM End	4.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537516 °	39.537516 °
				-121.707580 °	-121.707580 °
DWR ID	16341				

Photo 2 of 3 : UCIP_SP_2021_58471_66753.jpg



View of WS slope and toe.

LM Start	4.35	Rating **	M	Issue No.	24 (cont)
LM End	4.35	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58471_66750.jpg



View of WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	25
LM End	4.85	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.530220 °	39.530220 °	
			-121.707940 °	-121.707940 °	
DWR ID	16355				

Comment Code

Inspector Comment

FS_ID:58472
DS_ID:16355
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is submerged and appears to be half buried by sediment. LS slide gate is fully submerged on the edge of the rice field. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard) 11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 No signs of burrowing activity on this inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Burrow activity near crossing, burrow holes present on WS slope. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee 7.7 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.94). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 4.94), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 865+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:28:00 PM

Photo 1 of 3 : UCIP_SP_2021_58472_66756.jpg



Overview of levee crown at crossing looking downstream at right bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	25 (cont)
LM End	4.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.530220 °	39.530220 °
				-121.707940 °	-121.707940 °
DWR ID	16355				

Photo 2 of 3 : UCIP_SP_2021_58472_66758.jpg



Burrow activity on WS slope.

LM Start	4.85	Rating **	M	Issue No.	25 (cont)
LM End	4.85	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58472_66755.jpg



View of WS flap gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.33	Rating **	M	Issue No.	26
LM End	5.33	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.523236 °	39.523236 °	
			-121.707650 °	-121.707650 °	
DWR ID	16356				

Comment Code

Inspector Comment

FS_ID:58473
DS_ID:16356
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this pipe. Pipe is scheduled to be lined. Minor sloughing observed on LS just immediately d/s of concrete headwall (see photo). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 LS screw gate was completely submerged and WS flap gate was propped open by a wood block but crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Minor vegetation on LS slope. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0204 for restriction view of gates. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.43). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.43), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 839+50E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:29:00 PM

Photo 1 of 3 : UCIP_SP_2021_58473_66762.jpg



Overview of levee crown at crossing looking D/S on right bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.33	Rating **	M	Issue No.	26 (cont)
LM End	5.33	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.523236 °	39.523236 °	
			-121.707650 °	-121.707650 °	
DWR ID	16356				

Photo 2 of 3 : UCIP_SP_2021_58473_66760.jpg



WS Flap Gate

LM Start	5.33	Rating **	M	Issue No.	26 (cont)
LM End	5.33	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58473_66763.jpg



WS view of outlet cleared of vegetation.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.38	Rating **	M	Issue No.	27
LM End	5.38	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.522566 °	39.522566 °	
			-121.707560 °	-121.707560 °	
DWR ID	16357				

Comment Code

Inspector Comment

FS_ID:58579
DS_ID:16357
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing this pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is partially buried by sediment- needs to be dug out. LS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 WS flap gate closed but blocked from opening by sediment. (A. Freitag - DWR Sutter Yard)04/28/2016 WS flap gate blocked from opening by sediment. (A. Freitag - DWR Sutter Yard)07/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls an both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.48). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.48), listed as 24-inch pipe, no as-built referenced found]
FS Date: 8/26/2019 12:30:00 PM

Photo 1 of 3 : UCIP_SP_2021_58579_66764.jpg



Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.38	Rating **	M	Issue No.	27 (cont)
LM End	5.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.522566 °	39.522566 °
				-121.707560 °	-121.707560 °
DWR ID	16357				

Photo 2 of 3 : UCIP_SP_2021_58579_66765.jpg



View of WS slope and channel.

LM Start	5.38	Rating **	M	Issue No.	27 (cont)
LM End	5.38	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58579_66768.jpg



View of WS flap gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.39	Rating **	M	Issue No.	28
LM End	5.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522376 °	39.522376 °
				-121.707520 °	-121.707520 °
DWR ID	16358				

Comment Code

Inspector Comment

FS_ID:58475
DS_ID:16358
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Western Canal Siphon was running during inspection. WS was dry and no signs of leaks were observed during inspection. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: [Western Canal Siphon] 1 of 3: Three 8-foot by 10-foot irrigation concrete conduits through the levee and channel. Top of concrete conduit, 4 feet below the crown. Conduit on the downstream end is closed off with a removable concrete flashboard. Concrete "U" headwall on the landside (LS) with slots for flashboards for other two openings. Guardrails around headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.50). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.49), listed as three 8-foot by 10-foot concrete conduit, no as-built referenced found]
FS Date: 8/26/2019 12:31:00 PM

Photo 1 of 3 : UCIP_SP_2021_58475_66778.jpg



Levee view over Siphon

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.39	Rating **	M	Issue No.	28 (cont)
LM End	5.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522376 °	39.522376 °
				-121.707520 °	-121.707520 °
DWR ID	16358				

Photo 2 of 3 : UCIP_SP_2021_58475_66777.jpg



Flood Channel over Siphon

LM Start	5.39	Rating **	M	Issue No.	28 (cont)
LM End	5.39	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58475_66776.jpg



Siphon - LS. View of U/S wingwall.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	29	
LM End	5.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.522376 °	39.522376 °	
				-121.707520 °	-121.707520 °	
DWR ID	17375					
Comment Code						
Inspector Comment						
FS_ID:58476 DS_ID:17375 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Western Canal Siphon was running during inspection. WS was dry and no signs of leaks were observed during inspection. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: [Western Canal Siphon] 2 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit, 4 feet below the crown. Conduit on the downstream end is closed off with a removable concrete flashboard. Concrete "U" headwall on the landside (LS) with slots for flashboards for other two openings. Guardrails around headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.50). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.49), listed as three 8-foot by 10-foot concrete conduit, no as-built referenced found] FS Date: 8/26/2019 12:31:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58476_66772.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	29 (cont)
LM End	5.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522376 °	39.522376 °
				-121.707520 °	-121.707520 °
DWR ID	17375				

Photo 2 of 3 : UCIP_SP_2021_58476_66773.jpg



View of flood channel over siphon.

LM Start	5.40	Rating **	M	Issue No.	29 (cont)
LM End	5.40	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58476_66774.jpg



View of LS structure.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	30
LM End	5.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522338 °	39.522338 °
				-121.707530 °	-121.707530 °
DWR ID	17376				

Comment Code

Inspector Comment

FS_ID:58477
DS_ID:17376
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Western Canal Siphon was running during inspection. WS was dry and no signs of leaks were observed during inspection. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: [Western Canal Siphon] 3 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit, 4 feet below the crown elevation. Conduit on the downstream end is closed off with a removable concrete flashboard. Concrete "U" headwall on the landside (LS) with slots for flashboards for other two openings. Guardrails around headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.50). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.49), listed as three 8-foot by 10-foot concrete conduit, no as-built referenced found]
FS Date: 8/26/2019 12:33:00 PM

Photo 1 of 3 : UCIP_SP_2021_58477_66781.jpg



Overview of levee crown at crossing looking D/S at right bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	30 (cont)
LM End	5.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522338 °	39.522338 °
				-121.707530 °	-121.707530 °
DWR ID	17376				

Photo 2 of 3 : UCIP_SP_2021_58477_66782.jpg



View of flood channel over siphon.

LM Start	5.40	Rating **	M	Issue No.	30 (cont)
LM End	5.40	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58477_66780.jpg



View of LS structure.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	31
LM End	5.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.519212 °	39.519212 °
				-121.709030 °	-121.709030 °
DWR ID	16359				

Comment Code

Inspector Comment

FS_ID:58478
DS_ID:16359
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS Flap gate is completely buried- needs to be dug out. LS is blocked off by flashboards that are partially buried. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 WS still completely buried. (A. Freitag - DWR Sutter Yard)04/28/2016 WS gate and headwall are buried. Only the top of the headwall was visible. LS appeared ok. (A. Freitag - DWR Sutter Yard)07/13/2015 Both the LS screw gate and WS flap gate are completely buried. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. WS headwall and flap gate are fully covered in debris and not visible. Need to clear. (A. Freitag - DWR Sutter Yard)04/18/2012 High sedimentation build up at WS and LS headwall. Limited inspection due to dense vegetation on WS and LS slope. Need photo of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13D_2011_p_0210 for WS gate submerged. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.73). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.73), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 820+50E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:38:00 PM

Photo 1 of 3 : UCIP_SP_2021_58478_66793.jpg



Overview of levee crown at crossing looking downstream.

* 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/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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	31 (cont)
LM End	5.63	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.519212 °	39.519212 °	
			-121.709030 °	-121.709030 °	
DWR ID	16359				

Photo 2 of 3 : UCIP_SP_2021_58478_66794.jpg



View of WS slope and toe.

LM Start	5.63	Rating **	M	Issue No.	31 (cont)
LM End	5.63	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58478_66791.jpg



View of WS flap gate buried.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.87	Rating **	(M	Issue No.	32	
LM End	5.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.516059 °	39.516059 °	
				-121.710810 °	-121.710810 °	
DWR ID	16360					
Comment Code						
Inspector Comment						
FS_ID:58479 DS_ID:16360 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. LS is completely submerged in an irrigation ditch. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Burrow activity near crossing; burrow holes present on LS. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 6.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.97). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.97), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 808+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 12:40:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58479_66800.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.87	Rating **	M	Issue No.	32 (cont)
LM End	5.87	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.516059 °	39.516059 °	
			-121.710810 °	-121.710810 °	
DWR ID	16360				

Photo 2 of 3 : UCIP_SP_2021_58479_66801.jpg



View of WS slope and toe.

LM Start	5.87	Rating **	M	Issue No.	32 (cont)
LM End	5.87	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58479_66799.jpg



Flap gate WS

LM Start	5.91	Rating **	M	Issue No.	83
LM End	7.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.515587 °	39.495929 °
				-121.711095 °	-121.725305 °
DWR ID	DWR_MA0013_01_s_2021_83				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.17	Rating **	M	Issue No.	67
LM End	6.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.512157 °	39.509468 °
				-121.713171 °	-121.714640 °
DWR ID	DWR_MA0013_01_f _ 2016_67				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	33
LM End	6.23	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.511337 °	39.511337 °	
			-121.713620 °	-121.713620 °	
DWR ID	16361				

Comment Code

Inspector Comment

FS_ID:58480
DS_ID:16361
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS appears to be in good condition. LS slide gate is buried and submerged. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 LS screw gate is buried and non-operational. (A. Freitag - DWR Sutter Yard)04/28/2016 LS screw gate is still completely buried. (A. Freitag - DWR Sutter Yard)07/13/2015 LS screw gate is completely buried. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 WS slope has been cleared of vegetation and is in good condition. LS screw gate is still buried. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 LS slide gate is buried. Pipe is not visible on LS toe. Limited inspection on WS slope due to dense vegetation. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.32). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 6.34), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 789+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:41:00 PM

Photo 1 of 3 : UCIP_SP_2021_58480_66808.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	33 (cont)
LM End	6.23	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.511337 °	39.511337 °	
			-121.713620 °	-121.713620 °	
DWR ID	16361				

Photo 2 of 3 : UCIP_SP_2021_58480_66806.jpg



View of WS slope and toe.

LM Start	6.23	Rating **	M	Issue No.	33 (cont)
LM End	6.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58480_66804.jpg



View of WS flap gate.

LM Start	6.41	Rating **	M	Issue No.	3
LM End	6.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.508928 °	39.501438 °
				-121.714842 °	-121.719715 °
DWR ID	DWR_MA0013_01_s_2012_3				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_300_3_20210224_00001.jpg



View of the agricultural ditch along the 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.45	Rating **	M	Issue No.	34
LM End	6.45	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508309 °	39.508309 °
				-121.715100 °	-121.715100 °
DWR ID	16362				

Comment Code

Inspector Comment

FS_ID:58481
DS_ID:16362
EP_NO: 5200B
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, potential levee integrity issues. This crossing is part of DMP's Phase 1 eligibility. No internal inspection has been completed for this crossing. Minor holes visible on LS that could be associated with burrow activity or signs of sink hole. Need internal inspection of pipe to determine condition of pipe through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Hole/erosion behind the flashboards was repaired. New flash boards were installed and the erosion hole filled back in. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Hole/erosion still present behind the LS flashboards. (DWR Sutter Yard-AFreitag)04/28/2016 Hole still present behind the LS flashboards. Rest of the crossing appeared in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Hole still present behind the LS flashboards. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. (A. Freitag - DWR Sutter Yard)04/18/2012 Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends (Permit No. 5200B - 1965, Richvale Irrigation District) (Additional Related Permit(s): Permit No. 5200 and 5200A) [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.56). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 6.56), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 777+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:42:00 PM

Photo 1 of 3 : UCIP_SP_2021_58481_66814.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.45	Rating **	M	Issue No.	34 (cont)
LM End	6.45	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.508309 °	39.508309 °	
			-121.715100 °	-121.715100 °	
DWR ID	16362				

Photo 2 of 3 : UCIP_SP_2021_58481_66813.jpg



View of WS slope and toe.

LM Start	6.45	Rating **	M	Issue No.	34 (cont)
LM End	6.45	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58481_66811.jpg



WS flap gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.99	Rating **	M	Issue No.	35
LM End	6.99	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.501479 °	39.501479 °
				-121.719710 °	-121.719710 °
DWR ID	16329				

Comment Code

Inspector Comment

FS_ID:58483
DS_ID:16329
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, due to no permit found authorizing pipe and maintenance issue. Pipe is scheduled to be lined. Slide gate detached and sitting on the side of concrete wingwall. Slide gate will need to be re-attached. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 LS slide gate is still damaged and needing to be replaced. WS appeared to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Needs a new screw gate installed on the LS. (A. Freitag - DWR Sutter Yard)04/28/2016 LS slide gate is still bent. Everything else with the crossing appeared ok. (A. Freitag - DWR Sutter Yard)07/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged. (A. Freitag - DWR Sutter Yard)04/18/2012 LMA's inspection sheet of 2011 indicates settlement and visible corrosion. Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes for this crossing. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.10). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 7.10), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 748+50E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:59:00 PM

Photo 1 of 3 : UCIP_SP_2021_58483_66833.jpg



Overview of levee crown at crossing looking D/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.99	Rating **	M	Issue No.	35 (cont)
LM End	6.99	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.501479 °	39.501479 °
				-121.719710 °	-121.719710 °
DWR ID	16329				

Photo 2 of 3 : UCIP_SP_2021_58483_66832.jpg



View of WS slope and toe.

LM Start	6.99	Rating **	M	Issue No.	35 (cont)
LM End	6.99	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58483_66837.jpg



WS Flap Gate

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	36
LM End	7.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.498845 °	39.498845 °
				-121.722440 °	-121.722440 °
DWR ID	16354				
Comment Code					
Inspector Comment					
FS_ID:58484 DS_ID:16354 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 LS slide gate stem still bent. WS appeared to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Screw gate stem bent but gate is still operational. (A. Freitag - DWR Sutter Yard)04/28/2016 Tested positive closure device the bent stem on the slide gate did not seem to affect its functions. Gate operable. (A. Freitag - DWR Sutter Yard)07/13/2015 LS screw gate stem is still bent. Gate should still be able to close fully. The rest of the crossing seems to be in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent. (A. Freitag - DWR Sutter Yard)04/18/2012 LS slide gate stem is bent and needs to be replaced. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes during next inspection. Confirmed flap gate on WS. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0244 for submerged WS gate. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.34). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 7.34), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 736+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 1:02:00 PM					

Photo 1 of 3 : UCIP_SP_2021_58484_66844.jpg



Overview of levee crown at crossing looking D/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	36 (cont)
LM End	7.22	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.498845 °	39.498845 °	
			-121.722440 °	-121.722440 °	
DWR ID	16354				

Photo 2 of 3 : UCIP_SP_2021_58484_66845.jpg



View of WS slope and toe.

LM Start	7.22	Rating **	M	Issue No.	36 (cont)
LM End	7.22	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58484_66842.jpg



WS Flap Gate

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	7.46	Rating **	M	Issue No.	37
LM End	7.46	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.496146 °	39.496146 °	
			-121.725160 °	-121.725160 °	
DWR ID	16352				

Comment Code

Inspector Comment

FS_ID:58485
DS_ID:16352
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 WS ditch is getting to be heavily vegetated but it is not yet affecting flap gate operation. Vegetation needs to be cleared back some. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/02/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.58). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 7.58), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 724+32E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 1:03:00 PM

Photo 1 of 3 : UCIP_SP_2021_58485_66853.jpg



View of levee crown at crossing looking D/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	7.46	Rating **	M	Issue No.	37 (cont)	
LM End	7.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.496146 °	39.496146 °	
				-121.725160 °	-121.725160 °	
DWR ID	16352					

Photo 2 of 3 : UCIP_SP_2021_58485_66851.jpg



WS view of slope and channel.

LM Start	7.46	Rating **	M	Issue No.	37 (cont)
LM End	7.46	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58485_66849.jpg



View of WS flap gate. Dense vegetation 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	38
LM End	7.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.493756 °	39.493756 °
				-121.726570 °	-121.726570 °
DWR ID	16320				

Comment Code

Inspector Comment

FS_ID:58487
DS_ID:16320
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. The following maintenance issues should be addressed: clear vegetation from LS inlet and repair CMP riser lid (safety measure). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Debris down inside of WS riser. The rest of the crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 The bottom of the entire pipe has about 8inch of sediment in it. Sediment is preventing the screw gate from fully closing. WS flap gate seems to be in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 9.9 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in corrugated metal pipe riser on the WS slope. Concrete "U" headwalls on both ends. Spillway grouted for 35 feet. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.76). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 7.76), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 714+28E, page 19 of 28 electronic file, listed as 48-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 1:06:00 PM

Photo 1 of 3 : UCIP_SP_2021_58487_66867.jpg



Overview of levee crown at crossing (past gate) looking D/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	38 (cont)
LM End	7.64	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.493756 °	39.493756 °	
			-121.726570 °	-121.726570 °	
DWR ID	16320				

Photo 2 of 3 : UCIP_SP_2021_58487_66865.jpg



View of WS slope, corrugated metal riser with slide gate.

LM Start	7.64	Rating **	M	Issue No.	38 (cont)
LM End	7.64	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58487_66863.jpg



WS Slide gate

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	39
LM End	8.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.489061 °	39.489061 °
				-121.729430 °	-121.729430 °
DWR ID	16321				
Comment Code					
Inspector Comment					
FS_ID:58488 DS_ID:16321 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Sediment build up against flashboards. Flashboards are in use on landside of levee. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.11). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 8.12), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 696+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/27/2019 2:07:00 PM					

Photo 1 of 3 : UCIP_SP_2021_58488_66872.jpg



Overview of levee crown at crossing looking D/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	39 (cont)	
LM End	8.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.489061 °	39.489061 °	
				-121.729430 °	-121.729430 °	
DWR ID	16321					

Photo 2 of 3 : UCIP_SP_2021_58488_66873.jpg



View of WS slope and toe.

LM Start	8.00	Rating **	M	Issue No.	39 (cont)
LM End	8.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58488_66869.jpg



WS Flap gate

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	40
LM End	8.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.485432 °	39.485432 °
				-121.731590 °	-121.731590 °
DWR ID	16322				

Comment Code

Inspector Comment

FS_ID:58489
DS_ID:16322
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Vegetation needs to be cleared from inlet/outlet. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both sides of the crossing were buried with sediment- needs to be cleared away. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 WS flap gate is closed but is blocked from opening by sediment. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes are cleared of vegetation and are in good condition. WS flap gate is blocked from opening fully by sediment. (A. Freitag - DWR Sutter Yard)04/18/2012 Sediment build up on LS. Debris (broken panels) scattered near LS headwall. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared WS and LS slopes. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.40). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 8.40), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 681+30E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:08:00 PM

Photo 1 of 3 : UCIP_SP_2021_58489_66876.jpg



Overview of levee crown at crossing looking D/S.

* 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/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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	40 (cont)
LM End	8.27	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.485432 °	39.485432 °	
			-121.731590 °	-121.731590 °	
DWR ID	16322				

Photo 2 of 3 : UCIP_SP_2021_58489_66874.jpg



View of WS slope and toe.

LM Start	8.27	Rating **	M	Issue No.	40 (cont)
LM End	8.27	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58489_66877.jpg



View of WS flap gate and headwall.

LM Start	8.81	Rating **	M	Issue No.	49
LM End	8.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.478648 °	39.478648 °
				-121.736477 °	-121.736477 °
DWR ID	DWR_MA0013_01_f _ 2016_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_300_49_20210224_00005.jpg




View of the erosion site along the landside toe. Fall 2020.

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

Levee Inspection Report By Mile - Spring 2021

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

Photo 1 of 3 : UCIP_SP_2021_58490_66881.jpg



Catwalk and screw gate located on WS.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.82	Rating **	U	Issue No.	41 (cont)	
LM End	8.82	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.478573 °	39.478573 °	
				-121.736550 °	-121.736550 °	
DWR ID	16323					

Photo 2 of 3 : UCIP_SP_2021_58490_66884.jpg



Catwalk & gate located on WS. No daylight point on WS.

LM Start	8.82	Rating **	U	Issue No.	41 (cont)
LM End	8.82	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58490_66882.jpg



View of LS structure. Erosion present behind headwall.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.82	Rating **	M	Issue No.	42
LM End	8.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478483 °	39.478483 °
				-121.736550 °	-121.736550 °
DWR ID	16324				
Comment Code					
Inspector Comment					
FS_ID:58491 DS_ID:16324 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing structure. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: 1 of 2: 48-inch by 48-inch (4-foot by 4-foot) concrete irrigation conduit through the levee 13.9 feet below the crown. This crossing record is for the upstream conduit. Sluice gates on the concrete headwall on the waterside (WS) side. Wooden walkway to the sluice gates. Concrete "U" headwall on the landside (LS) end. WS slope cobble revetted. [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.96). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 8.96), listed as two 4.5-foot by 4.5-foot concrete conduits, As-built DWG No. 50-4-3608, Sheet No. 3608/20, 28, STA 651+11E, page 21, 27, 28 (dup) of 28 electronic file, listed as dual 4'-6" concrete conduit (irrigation structure)] FS Date: 8/27/2019 2:10:00 PM					

Photo 1 of 3 : UCIP_SP_2021_58491_66894.jpg



Overview of levee crown at crossing looking U/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.82	Rating **	M	Issue No.	42 (cont)
LM End	8.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478483 °	39.478483 °
				-121.736550 °	-121.736550 °
DWR ID	16324				

Photo 2 of 3 : UCIP_SP_2021_58491_66892.jpg



Catwalk, sluice gates, & headwall on WS.

LM Start	8.82	Rating **	M	Issue No.	42 (cont)
LM End	8.82	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58491_66891.jpg



Headwall and sluice gates located on WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.83	Rating **	M	Issue No.	43
LM End	8.83	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478483 °	39.478483 °
				-121.736630 °	-121.736630 °
DWR ID	17521				

Comment Code

Inspector Comment

FS_ID:58492
DS_ID:17521
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing structure. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears to be in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 2 of 2: 48-inch by 48-inch (4-foot by 4-foot) concrete conduits through the levee, 13.9 feet below the crown. This crossing is for the downstream conduit. Sluice gates on the concrete headwall on the waterside (WS). Wooden walkway to the sluice gates. Concrete "U" headwall on the landside (LS) end. WS slope cobble revetted. [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.96). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 8.96), listed as two 4.5-foot by 4.5-foot concrete conduits, As-built DWG No. 50-4-3608, Sheet No. 3608/20, 28, STA 651+11E, page 21, 27, 28 (dup) of 28 electronic file, listed as dual 4'-6" concrete conduit (irrigation structure)]
FS Date: 8/27/2019 2:10:00 PM

Photo 1 of 3 : UCIP_SP_2021_58492_66889.jpg



Overview of levee crown at crossing looking U/S.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.83	Rating **	M	Issue No.	43 (cont)
LM End	8.83	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478483 °	39.478483 °
				-121.736630 °	-121.736630 °
DWR ID	17521				

Photo 2 of 3 : UCIP_SP_2021_58492_66887.jpg



Catwalk and screw gates on WS, view looking south from crown road

LM Start	8.83	Rating **	M	Issue No.	43 (cont)
LM End	8.83	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58492_66888.jpg



Sluice gates located on 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.84	Rating **	M	Issue No.	44
LM End	8.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.478281 °	39.478281 °
				-121.736780 °	-121.736780 °
DWR ID	16325				

Comment Code

Inspector Comment

FS_ID:58493
DS_ID:16325
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Spoke to Richville Irrigation District manager and he mentioned that this structure is not theirs. He recommended that LMA-Sutter Yard break lock to access crossing. Crossing appears to fit general configuration for drainage structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/27/2019 No permit has been found authorizing this structure. Need to find owner. Originally assigned to LMA-Sutter Yard however, unknown locks on WS slide gates. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Debris drifts built up around the WS slide gates-needs to be cleared away. LS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 LS slope has been sprayed and cleared of vegetation and is in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on LS slope due to dense vegetation. Need photo of cleared vegetation from slopes and WS headwall. Minor debris scattered on WS slope. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe angled through the levee, 12.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate on the WS end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.98). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 8.98), As-built DWG No. 50-4-3608, Sheet No. 3608/18, 20, STA 648+55.16E, page 19, 21 of 28 electronic file, listed as 24-inch CMP]
FS Date: 8/27/2019 2:11:00 PM

Photo 1 of 3 : UCIP_SP_2021_58493_66895.jpg



Overview of levee crown at crossing looking D/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.84	Rating **	M	Issue No.	44 (cont)
LM End	8.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.478281 °	39.478281 °
				-121.736780 °	-121.736780 °
DWR ID	16325				

Photo 2 of 3 : UCIP_SP_2021_58493_66897.jpg



View of WS slope with 2 slide gates.

LM Start	8.84	Rating **	M	Issue No.	44 (cont)
LM End	8.84	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58493_66900.jpg



View of slide gate on WS. Debris blocking gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.88	Rating **	M	Issue No.	45
LM End	8.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477817 °	39.477817 °
				-121.736990 °	-121.736990 °
DWR ID	16326				
Comment Code					
Inspector Comment					
FS_ID:57571 DS_ID:16326 EP_NO: 3836 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, need to reach out to owner to obtain maintenance records. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Line is still in use. Visible markers on WS and LS. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch high pressure steel fuel line through the levee, 3.2 feet below the crown. Marker located on the waterside (WS). Kinder Morgan is the owner of line--contact information is 213.624.9461 or Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 ? Or email villalovosf@kindermorgan.com. Additional contact is Ken Yeo, Sacramento Local Area Manager, at 916.416.7938 or by email yeok@kindermorgan.com. Frank Villalovos is the primary contact for this crossing. (8.625-inch pipe authorized under Permit No. 3836, 1962 - Southern Pacific Pipelines Inc.) [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.01)] FS Date: 8/27/2019 2:11:00 PM					

Photo 1 of 3 : UCIP_SP_2021_57571_66904.jpg



Underground petroleum pipeline marker visible on WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.88	Rating **	M	Issue No.	45 (cont)
LM End	8.88	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477817 °	39.477817 °	
			-121.736990 °	-121.736990 °	
DWR ID	16326				

Photo 2 of 3 : UCIP_SP_2021_57571_66903.jpg



Petroleum information marker.

LM Start	8.88	Rating **	M	Issue No.	45 (cont)
LM End	8.88	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57571_66902.jpg



Sign visible on 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.89	Rating **	M	Issue No.	47
LM End	8.89	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477588 °	39.477588 °
				-121.737040 °	-121.737040 °
DWR ID	16828				

Comment Code

Inspector Comment

FS_ID:58494
DS_ID:16828
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent due to potential threat to levee and no permit identified authorizing this pipe. Small leak found on LS by concrete distribution box about 10 feet from levee toe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Erosion still present on the side of the LS structure-still not affecting levee yet. (A. Freitag - DWR Sutter Yard)11/16/2016 Some erosion still present near the LS structure. Does not affect the levee yet. (A. Freitag - DWR Sutter Yard)04/28/2016 Erosion happening around the concrete structure on LS. Its not yet affecting the levee but will keep monitoring. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Crossing is not visible on WS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 72-inch irrigation pipe through the levee located 14.2 feet below the crown. Appurtenances include concrete pipe siphon, screw gate, and distribution box visible on the landside (LS). No appurtenances found on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.02), listed as 60-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 9.02), listed as 72-inch pipe siphon, As-built DWG No. 50-4-3608, Sheet No. 3608/20, STA 646+33.31E, page 21 of 28 electronic file, listed as 6-foot diameter concrete pipe (siphon)]
FS Date: 8/27/2019 2:12:00 PM

Photo 1 of 3 : UCIP_SP_2021_58494_66908.jpg



Overview picture looking south

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.89	Rating **	M	Issue No.	47 (cont)
LM End	8.89	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477588 °	39.477588 °	
			-121.737040 °	-121.737040 °	
DWR ID	16828				

Photo 2 of 3 : UCIP_SP_2021_58494_66907.jpg



Headwall at LS distribution box

LM Start	8.89	Rating **	M	Issue No.	47 (cont)
LM End	8.89	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58494_66905.jpg



LS Screw gate in distribution box (downstream view)

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.90	Rating **	M	Issue No.	48
LM End	8.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477530 °	39.477530 °
				-121.737060 °	-121.737060 °
DWR ID	16328				

Comment Code

Inspector Comment

FS_ID:58516
DS_ID:16328
EP_NO: 1234A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, due to maintenance issue and/or potential abandonment of pipe through levee. Marker is still missing unable to determine if crossing has been abandoned. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS marker missing. (A. Freitag - DWR Sutter Yard)11/16/2016 WS marker is knocked over and laying on the ground. (A. Freitag - DWR Sutter Yard)04/28/2016 Marker missing on WS. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Need to contact owner to replace marker. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: Underground telephone cable through the levee at an unknown depth below the crown. (buried and submarine cables authorized under Permit No. 1234, 1234A, 1947 - Pacific Telephone and Telegraph Company [PT&T]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.03)]
FS Date: 8/27/2019 2:13:00 PM

LM Start	8.90	Rating **	M	Issue No.	48 (cont)
LM End	8.90	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_58516_66909.jpg



Underground telephone cable marker located on WS.

Photo 2 of 3 : UCIP_SP_2021_58516_80467.jpg



LS view: overview of LS, no marker found.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.90	Rating **	M	Issue No.	48 (cont)
LM End	8.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477530 °	39.477530 °
				-121.737060 °	-121.737060 °
DWR ID	16328				

Photo 3 of 3 : UCIP_SP_2021_58516_80468.jpg



WS view: overview of WS, no marker found.

LM Start	8.92	Rating **	M	Issue No.	65
LM End	9.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.477245 °	39.473928 °
				-121.737253 °	-121.739521 °
DWR ID	DWR_MA0013_01_f _ 2016_65				
Comment Code					
FE : Fence					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	50
LM End	8.95	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.476839 °	39.476839 °	
			-121.737540 °	-121.737540 °	
DWR ID	16317				

Comment Code

Inspector Comment

FS_ID:58495
DS_ID:16317
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 LS inlet has minor vegetation still. WS appears in good condition. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID# USACE_CESPK_M13D_2011_p_0278 for WS outlet sedimentation and sediment/grass at LS inlet. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.09). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 9.09), As-built DWG No. 50-4-3511, Sheet No. 3511/28.2, STA 644+50E listed under Right Bank should be STA 644+50W, page 28 of 31 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:13:00 PM

Photo 1 of 3 : UCIP_SP_2021_58495_66910.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	50 (cont)
LM End	8.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.476839 °	39.476839 °
				-121.737540 °	-121.737540 °
DWR ID	16317				

Photo 2 of 3 : UCIP_SP_2021_58495_66911.jpg



View of WS slope and toe.

LM Start	9.70	Rating **	M	Issue No.	50 (cont)
LM End	9.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58495_66912.jpg



View of LS slope and toe.

LM Start	9.70	Rating **	M	Issue No.	78
LM End	9.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.467193 °	39.467193 °
				-121.743886 °	-121.743886 °
DWR ID	DWR_MA0013_01_f _ 2020_78				
Comment Code					
PR : Prunings					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.73	Rating **	M	Issue No.	10
LM End	9.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.466732 °	39.466478 °
				-121.744180 °	-121.744338 °
DWR ID	DWR_MA0013_01_f _ 2013_10				
Comment Code					
MA : Material					
Inspector Comment					
Move the trailer and materials outside the 10 foot easement.					

Photo 1 of 1 : SP_2021_MA0013_300_10_20210224_00002.jpg



View of trailer and material along the landside toe. Spring 2020.

LM Start	9.75	Rating **	M	Issue No.	64
LM End	9.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.466478 °	39.466478 °
				-121.744338 °	-121.744338 °
DWR ID	DWR_MA0013_01_f _ 2016_64				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.88	Rating **	M	Issue No.	51
LM End	9.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464850 °	39.464850 °
				-121.745290 °	-121.745290 °
DWR ID	16331				

Comment Code

Inspector Comment

FS_ID:57608
DS_ID:16331
EP_NO: 1238
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of line through levee. Need to contact owner to request maintenance records to confirm integrity of line. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard) 04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 New structure with shutoff valve installed about 5ft. from LS toe. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: 8-inch high pressure gas line through the levee, 13.3 feet below the crown. Substation with wire enclosure at the landside (LS) toe. (6.625-inch gas line authorized under Permit No. 1238, 1947 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 10.03). USACE Sacramento O&M Manual 519, June 1962 (HLM 10.03), listed as 8-inch gas line]
FS Date: 8/27/2019 2:15:00 PM

LM Start	9.88	Rating **	M	Issue No.	51 (cont)
LM End	9.88	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_57608_66917.jpg



Underground gas line marker on LS.

Photo 2 of 3 : UCIP_SP_2021_57608_66919.jpg



Substation near 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.88	Rating **	M	Issue No.	51 (cont)
LM End	9.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464850 °	39.464850 °
				-121.745290 °	-121.745290 °
DWR ID	16331				

Photo 3 of 3 : UCIP_SP_2021_57608_66918.jpg



New shutoff valve structure near 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	11.03	Rating **	M	Issue No.	52
LM End	11.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.449886 °	39.449886 °
				-121.755050 °	-121.755050 °
DWR ID	16332				

Comment Code

Inspector Comment

FS_ID:58496
DS_ID:16332
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee canal is diverted about 900 feet upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/16/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends and weir in channel. Crossing is used as an irrigation turnout. [Additional Reference(s): DWR Levee Log, 1993 (HLM 11.21). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 11.21), As-built DWG No. 50-4-3511, Sheet No. 3511/10.3, STA 534+52E, page 10 of 31 electronic file, listed as 60-inch CMP through the levee; As-built DWG No. 50-4-3037 and DWG No. 50-4-3511 sheet 3511/28 referenced not available]
FS Date: 8/27/2019 2:16:00 PM

Photo 1 of 3 : UCIP_SP_2021_58496_66926.jpg



View of WS corrugated metal riser and concrete wall.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	11.03	Rating **	M	Issue No.	52 (cont)	
LM End	11.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.449886 °	39.449886 °	
				-121.755050 °	-121.755050 °	
DWR ID	16332					

Photo 2 of 3 : UCIP_SP_2021_58496_66925.jpg



Corrugated metal riser with owner information.

LM Start	11.03	Rating **	M	Issue No.	52 (cont)
LM End	11.03	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58496_66928.jpg



Trash rack on WS headwall.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	11.60	Rating **	M	Issue No.	53
LM End	11.60	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.442639 °	39.442639 °
				-121.760070 °	-121.760070 °
DWR ID	16333				
Comment Code					
Inspector Comment					
FS_ID:58498 DS_ID:16333 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe angled through the levee, 11.3 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends. Crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 145). [Additional Reference(s): DWR Levee Log, 1993 (HLM 11.78). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 11.78), listed as 60-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 28.2, STA 504+71E, page 9, 28 of 31 electronic file, As-built DWG No. 50-4-3037 referenced not available] FS Date: 8/27/2019 2:16:00 PM					

Photo 1 of 3 : UCIP_SP_2021_58498_66934.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	11.60	Rating **	M	Issue No.	53 (cont)
LM End	11.60	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.442639 °	39.442639 °
				-121.760070 °	-121.760070 °
DWR ID	16333				

Photo 2 of 3 : UCIP_SP_2021_58498_66932.jpg



WS slide gate with owner information.

LM Start	11.60	Rating **	M	Issue No.	53 (cont)
LM End	11.60	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58498_66930.jpg



Trash rack on WS headwall.

LM Start	11.82	Rating **	M	Issue No.	82
LM End	12.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.439816 °	39.428187 °
				-121.762090 °	-121.770035 °
DWR ID	DWR_MA0013_01_s_2021_82				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	54
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.435169 °	39.435169 °
				-121.765290 °	-121.765290 °
DWR ID	16334				

Comment Code

Inspector Comment

FS_ID:58499
DS_ID:16334
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this crossing. Irrigation siphon crosses under Cherokee Canal and Unit 2 levee at DSID 16385. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 WS pipe end still unknown- try to locate using GPR/ utility locator. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Cannot locate the WS pipe end. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition but could not locate the WS pipe end. (A. Freitag - DWR Sutter Yard)07/13/2015 New screw gate installed inside the WS standpipe. (A. Freitag - DWR Sutter Yard) 05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylight after WS slope is cleared. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch corrugated metal siphon pipe through the levee, 11 feet below the crown. Pipe size changes from 30-inch pipe through levee to a 24-inch pipe underneath the canal. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.35). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 12.37), listed as 30-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 24.1, STA 473+86E, page 9, 24 of 31 electronic file, listed as combination of new 30-inch section pipe through the levee and existing 24-inch concrete siphon pipe through the channel (Keller Siphon structure, irrigation facilities); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:17:00 PM

Photo 1 of 3 : UCIP_SP_2021_58499_66940.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	54 (cont)
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.435169 °	39.435169 °	
			-121.765290 °	-121.765290 °	
DWR ID	16334				

Photo 2 of 3 : UCIP_SP_2021_58499_66936.jpg



View of Ws slope and channel.

LM Start	12.19	Rating **	M	Issue No.	54 (cont)
LM End	12.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58499_66939.jpg



Slide gate located 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	55
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.435152 °	39.435152 °
				-121.765300 °	-121.765300 °
DWR ID	16335				

Comment Code

Inspector Comment

FS_ID:58500
DS_ID:16335
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/28/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 LS slope has been cleared of vegetation and is in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on LS slope due to dry vegetation. Need photos of cleared LS slope. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 144). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.36). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 12.38), listed as 36-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, STA unk, page 9 of 31 electronic file, As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:17:00 PM

Photo 1 of 3 : UCIP_SP_2021_58500_66949.jpg



Overview of levee crown at crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	55 (cont)
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.435152 °	39.435152 °
				-121.765300 °	-121.765300 °
DWR ID	16335				

Photo 2 of 3 : UCIP_SP_2021_58500_66947.jpg



View from levee crown of WS slope and channel.

LM Start	12.19	Rating **	M	Issue No.	55 (cont)
LM End	12.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58500_66948.jpg



Water side screw gate located near crown hinge

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.74	Rating **	M	Issue No.	56
LM End	12.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.428070 °	39.428070 °
				-121.770080 °	-121.770080 °
DWR ID	16336				

Comment Code

Inspector Comment

FS_ID:58501
DS_ID:16336
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing and slide gate is still missing from the WS CMP riser. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Slide gate still missing from inside of WS standpipe. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Slide gate still missing from inside the WS standpipe. (A. Freitag - DWR Sutter Yard)04/28/2016 Slide gate was removed from inside the WS standpipe. (A. Freitag - DWR Sutter Yard)07/13/2015 New screw gate installed on the WS pipe end in the irrigation ditch. (A. Freitag - DWR Sutter Yard)05/21/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Irrigation turnout. Not in use during April 2012 Inspection. During the follow up May 2012 Inspection structure was being used as irrigation turnout, reason for barcode tags. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.7 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 141 and 142). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.94). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 12.94), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, STA 444+29E, page 8 of 31 electronic file, listed as 30-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:18:00 PM

Photo 1 of 3 : UCIP_SP_2021_58501_66952.jpg



Overview picture looking south on right bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.74	Rating **	M	Issue No.	56 (cont)
LM End	12.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.428070 °	39.428070 °
				-121.770080 °	-121.770080 °
DWR ID	16336				

Photo 2 of 3 : UCIP_SP_2021_58501_66959.jpg



View of WS slope.

LM Start	12.74	Rating **	M	Issue No.	56 (cont)
LM End	12.74	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58501_66951.jpg



Slide gate located on WS slope. Owner information marked on gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2021

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

Photo 1 of 3 : UCIP_SP_2021_58502_66966.jpg



Overview of levee crown at crossing looking downstream.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.33	Rating **	M	Issue No.	58 (cont)
LM End	13.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.420667 °	39.420667 °
				-121.775700 °	-121.775700 °
DWR ID	16337				

Photo 2 of 3 : UCIP_SP_2021_58502_66963.jpg



View of WS slope.

LM Start	13.33	Rating **	M	Issue No.	58 (cont)
LM End	13.33	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58502_66967.jpg



View of WS slope and channel.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.76	Rating **	M	Issue No.	59
LM End	13.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.416833 °	39.416833 °
				-121.781930 °	-121.781930 °
DWR ID	16338				

Comment Code

Inspector Comment

FS_ID:58515
DS_ID:16338
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 WS flap gate has been replaced. LS outlet still has a lot of vegetation, but overall levee integrity looks good at time of this inspection. Downgrading to Non-Urgent from Urgent due to fixed flap gate and current levee condition. (D. Sanoski - DWR UCIP)06/15/2017 Not abandoned- WS flap gate was dug out and opened draining water from the LS ditch. WS flap gate is heavily corroded and has a broken hinge-needs to be replaced. LS is still very overgrown and needs to be cleared. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Appears abandoned. WS flap gate completely silted over and LS screw gate is completely overgrown by a tree and is not accessible for inspection. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing appears to be abandoned. WS flap gate was completely silted over and LS slide gate is very overgrown by a tree. (A. Freitag - DWR Sutter Yard)07/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutback. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Tree has fallen at LS inlet and damaged slide gate. The tree needs to be removed and screw gate repaired. Limited inspection on LS due to fallen tree. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe angled through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.96). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 13.96), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact page, STA 336+56W, page 7 of 31 electronic file, listed as 24-inch CMP]
FS Date: 8/27/2019 2:19:00 PM

Photo 1 of 3 : UCIP_SP_2021_58515_66970.jpg



WS headwall and flap gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.76	Rating **	M	Issue No.	59 (cont)
LM End	13.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.416833 °	39.416833 °
				-121.781930 °	-121.781930 °
DWR ID	16338				

Photo 2 of 3 : UCIP_SP_2021_58515_66971.jpg



View of channel at crossing.

LM Start	13.76	Rating **	M	Issue No.	59 (cont)
LM End	13.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58515_66969.jpg



Tree fallen at LS headwall.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.77	Rating **	M	Issue No.	60
LM End	13.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.416756 °	39.416756 °
				-121.782060 °	-121.782060 °
DWR ID	16339				

Comment Code

Inspector Comment

FS_ID:58504
DS_ID:16339
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, crossing has been abandoned. Need to update crossing type from Drainage to Irrigation. Crossing was used as a irrigation line and not drainage. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Abandoned- still only the structure on the WS shoulder found. (A. Freitag - DWR Sutter Yard)11/17/2016 Abandoned. (A. Freitag - DWR Sutter Yard)05/03/2016 ABANDONED CROSSING. (A. Freitag - DWR Sutter Yard)07/13/2015 Abandoned crossing. Slide gate is buried on the WS. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 Non-functional crossing-buried slide gate on WS. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photo of cleared WS & LS slopes or toe. This crossing is listed in the USACE periodic inspection report as Corp's Inspection ID# USACE_CESPK_M13D_2011_p_0352 for abandoned gate on WS slope. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 3 feet below the crown. Gate valve on the waterside (WS) slope. 0.25-inch steel plate welded on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.97). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 13.97), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact page and 24.1, STA 334+60W, page 7, 24 of 31 electronic file, listed as 12-inch steel pipe with welded 1/4-inch steel plate on both ends of the pipe (WS and LS)]
FS Date: 8/27/2019 2:20:00 PM

Photo 1 of 3 : UCIP_SP_2021_58504_66972.jpg



Buried slide gate on the 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/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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.77	Rating **	M	Issue No.	60 (cont)
LM End	13.77	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.416756 °	39.416756 °	
			-121.782060 °	-121.782060 °	
DWR ID	16339				

Photo 2 of 3 : UCIP_SP_2021_58504_66973.jpg



View of LS slope and toe. Unable to find welded plate on LS.

LM Start	13.77	Rating **	M	Issue No.	60 (cont)
LM End	13.77	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58504_80558.jpg



WS view: pipe section capped off on WS.

LM Start	13.78	Rating **	M	Issue No.	77
LM End	13.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.416643 °	39.416643 °
				-121.782255 °	-121.782255 °
DWR ID	DWR_MA0013_01_s_2021_77				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	14.53	Rating **	M	Issue No.	76
LM End	14.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.409940 °	39.409940 °
				-121.793272 °	-121.793272 °
DWR ID	DWR_MA0013_01_s _ 2021_76				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	14.58	Rating **	U	Issue No.	62
LM End	14.58	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.409481 °	39.409481 °	
			-121.794010 °	-121.794010 °	
DWR ID	16368				

Comment Code

Inspector Comment

FS_ID:58505
DS_ID:16368
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Urgent due to pipe integrity and levee integrity issues. Previously noted holes on the pipe collar located at WS have been sealed using splash zone epoxy. Two holes (possible sink holes) were observed behind WS concrete headwall. Recommend internal inspection of pipe through levee to determine if sink holes are attributed to holes in pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 WS pipe unable to be inspected due to heavy vegetation at inlet, so assume same as last inspection. Noticed a long crack a couple feet above WS headwall that could be of concern; possible future slough if soil gets saturated during next high water event and could be a sign of internal pipe degradation. LS outlet and slope looked good. Urgent due to long crack, obstructed inspection view of WS inlet, and 2016 photos of holes in pipe. (D. Sanoski - DWR UCIP)06/15/2017 WS pipe end still showing heavy signs of corrosion and deterioration with visible holes between the concrete headwall and flap gate flange. Pipe was almost 100% full of water so could not visually inspect inside of the pipe to see if theres any damage inside of the levee segment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Top of pipe on WS still showing heavy signs of corrosion with visible holes between the flap gate flange and the concrete headwall. The pipe was mostly underwater so could not internally inspect it for more damage or corrosion. (A. Freitag - DWR Sutter Yard)05/03/2016 Top of the pipe on the WS has holes in it between the flap gate flange and headwall. Crossing is showing signs of rust and deterioration but it was mostly underwater so could not inspect the inside of the pipe. (A. Freitag - DWR Sutter Yard)07/13/2015 Both sides of crossing were underwater at the time of inspection. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. WS flap gate is still lodged open. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared WS & LS slopes. The flap gate is lodged open. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 14.79). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 14.79), As-built DWG No. 50-4-3511, Sheet No. 3511/7.

Photo 1 of 3 : UCIP_SP_2021_58505_66976.jpg



Headwall and flapgate located on water side of levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

unable to read exact page, STA 293+17W, page 7 of 31 electronic file, listed as 36-inch CMP]
FS Date: 8/27/2019 2:20:00 PM

LM Start	14.58	Rating **	U	Issue No.	62 (cont)
LM End	14.58	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2021_58505_66974.jpg



Headwall and flapgate located on water side of levee

LM Start	14.58	Rating **	U	Issue No.	62 (cont)
LM End	14.58	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58505_66975.jpg



Head wall and screw gate located on land side of levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	14.91	Rating **	M	Issue No.	63
LM End	14.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.406570 °	39.406570 °
				-121.798770 °	-121.798770 °
DWR ID	16367				

Comment Code

Inspector Comment

FS_ID:58506
DS_ID:16367
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need overall photo of crossing and photos of cleared WS & LS slopes. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 15.12). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 15.12), As-built DWG No. 50-4-3511, Sheet No. 3511/6. unable to read exact page, STA 276+00W, page 6 of 31 electronic file, listed as 36-inch CMP; As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:21:00 PM

Photo 1 of 3 : UCIP_SP_2021_58506_66981.jpg



WS headwall and flapgate

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	14.91	Rating **	M	Issue No.	63 (cont)
LM End	14.91	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.406570 °	39.406570 °	
			-121.798770 °	-121.798770 °	
DWR ID	16367				

Photo 2 of 3 : UCIP_SP_2021_58506_66980.jpg



Slide gate located on LS toe. Dense vegetation present on LS slope.

LM Start	14.91	Rating **	M	Issue No.	63 (cont)
LM End	14.91	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58506_66982.jpg



WS slope cleared of vegetation

LM Start	15.58	Rating **	M	Issue No.	57
LM End	15.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.400380 °	39.400380 °
				-121.808432 °	-121.808432 °
DWR ID	DWR_MA0013_01_f _ 2016_57				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_300_57_20210224_00006.jpg



View of the slope instability along the landside slope. Fall 2020.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Spring 2021

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

FS_ID:58507
DS_ID:16364
EP_NO: 7521
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent due to limited inspection, both pipe ends completely submerged. DMP internal inspection has not been completed. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Both pipe ends completely submerged during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Both pipe ends underwater at time of inspection. (A. Freitag - DWR Sutter Yard)05/03/2016 Tree near the WS pipe end has been cut down. Stump is still in place. Water was too high to be able to see if the pipe inside was damaged. Minor erosion starting behind the WS headwall. (A. Freitag - DWR Sutter Yard)07/13/2015 WS pipe end is heavily vegetated with trees and is making it almost impossible to inspect. Needs to be cleared out. LS appears in good condition. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slopes/toe due to dense vegetation. Erosion behind headwall on WS toe. Need photos of cleared WS & LS slopes. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. A 48-inch corrugated metal standpipe located approximately 12 feet from landside (LS) levee toe. (30-inch pipe authorized under Permit No. 7521, 1972 - Askew Ranch, replace intake structure with standpipe for drainage pump on LS) [Additional Reference(s): DWR Levee Log, 1993 (HLM 15.95). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 15.95), As-built DWG No. 50-4-3511, Sheet No. 3511/6. unable to read exact page, STA 232+93W, page 6 of 31 electronic file, listed as 30-inch CMP; As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:22:00 PM

A wide, gravel-covered road stretches from the foreground towards a white vehicle in the distance. The road is flanked by dry, yellowish-brown grass and some green shrubs. The sky is clear and blue.

Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	15.72	Rating **	M	Issue No.	66 (cont)
LM End	15.72	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.399051 °	39.399051 °	
			-121.810550 °	-121.810550 °	
DWR ID	16364				

Photo 2 of 3 : UCIP_SP_2021_58507_66987.jpg



View of WS.

LM Start	15.72	Rating **	M	Issue No.	66 (cont)
LM End	15.72	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58507_66986.jpg



View of headwall within channel.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	68	
LM End	15.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.398615 °	39.398615 °	
				-121.811250 °	-121.811250 °	
DWR ID	16373					
Comment Code						
Inspector Comment						
FS_ID:57621 DS_ID:16373 EP_NO: 11805B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record remains Non-Urgent, sloughing/erosion observed on the LS toe during inspection. Recommend monitoring to determine progression of sloughing/erosion. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Both pipe ends submerged during site visit. LS ditch near pipe end is heavily vegetated and covering the pipe end. There is some erosion happening at the LS levee toe but this is more of a ditch problem and not a problem with the pipe. (A. Freitag - DWR Sutter Yard)11/17/2016 Both pipe ends underwater at time of inspection. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing was underwater on both sides of levee during this inspection. Looks as if the wooden walkway was the same and no repairs have been made. (A. Freitag - DWR Sutter Yard)07/13/2015 LS inlet still underwater. WS screw gate appears in good condition. Wooden walkway to the screw gate needs repairs. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 LS inlet is not visible-underwater. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photos of cleared WS & LS slopes. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 48-inch reinforced concrete irrigation pipe with six concrete collars through the levee, 14.4 feet below the crown to center of conduit. Slide gate, head-wall and wood walkway on two concrete piers on the waterside (WS) of levee. Revetment on the WS slope. Irrigation ditch on the landside (LS). (two 30-inch pipes and one 48-inch pipe authorized under Permit No. 11805, -A, -B, and -C 1979 - Elna Schohr, Inc.) [Additional Reference(s): DWR Levee Log, 1993 (HLM 16.00)] FS Date: 8/27/2019 2:22:00 PM						

Photo 1 of 3 : UCIP_SP_2021_57621_66993.jpg



WS view of appurtenances (catwalk, slide gate, and headwall)

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	68 (cont)
LM End	15.77	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.398615 °	39.398615 °	
			-121.811250 °	-121.811250 °	
DWR ID	16373				

Photo 2 of 3 : UCIP_SP_2021_57621_66995.jpg



WS view of catwalk, slide/screw gate, and headwall

LM Start	15.77	Rating **	M	Issue No.	68 (cont)
LM End	15.77	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57621_66996.jpg



LS view of shoulder and slope.

LM Start	15.80	Rating **	M	Issue No.	75
LM End	15.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.398286 °	39.397806 °
				-121.811721 °	-121.812465 °
DWR ID	DWR_MA0013_01_s_2021_75				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_300_75_20210407_00176.jpg



View of the vegetation along the waterside slope. 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	69
LM End	16.19	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.394748 °	39.394748 °	
			-121.817360 °	-121.817360 °	
DWR ID	16372				

Comment Code

Inspector Comment

FS_ID:58508
DS_ID:16372
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Structure is referenced in Permit Number 11805. Need to pull permit to review details. Need to update structure description to reference correct permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 The structures are closed with metal stop logs (weir type structure). The stop logs appear to be removable, however; there is a wooden bridge over the structure that would have to be removed in order to raise the stop logs. There is 1-foot of clearance between the bottom of the bridge and the top of the stop logs. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: Two 10-foot by 10-foot concrete drain openings through the levee at an unknown depth below the crown. Wooden bridge, 10 ton load limit. [Additional Reference(s): DWR Levee Log, 1993 (HLM 16.43). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 16.43), listed as two 9.9-foot by 9.7-foot concrete conduits, As-built DWG No. 50-4-3511, Sheet No. 3511/27.1, STA 208+02W, page 27 of 31 electronic file, listed as drainage structure]
FS Date: 8/27/2019 2:23:00 PM

Photo 1 of 3 : UCIP_SP_2021_58508_74500.jpg



WS view of structure.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	69 (cont)
LM End	16.19	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.394748 °	39.394748 °	
			-121.817360 °	-121.817360 °	
DWR ID	16372				

Photo 2 of 3 : UCIP_SP_2021_58508_74503.jpg



View of crossing and panels attached to concrete walls.

LM Start	16.19	Rating **	M	Issue No.	69 (cont)
LM End	16.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58508_74501.jpg



LS view of structure

LM Start	16.22	Rating **	M	Issue No.	7
LM End	17.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.394523 °	39.385580 °
				-121.817630 °	-121.831282 °
DWR ID	DWR_MA0013_01_s_2012_7				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.18	Rating **	M	Issue No.	70
LM End	17.18	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.385540 °	39.385540 °	
			-121.831280 °	-121.831280 °	
DWR ID	16371				
Comment Code					
Inspector Comment					
FS_ID:57623 DS_ID:16371 EP_NO: 3511 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/27/2019 Record remains Non-Urgent, unable to determine status of crossing. Crossing not found. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)11/17/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)05/03/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)07/13/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Unable to locate. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. Unable to locate. (A. Freitag - DWR Sutter Yard)04/18/2012 Unable to determine if cable is still in use, per permit records indicate communication cable was installed in 1961, 1968 USACE requested to abandon line, 1974 USACE communication is not abandoned. Cable crosses multiple levees. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: U.S. Army communication cable through the levee, 3 feet below the crown. (underground cable authorized under Permit No. 3511, 1961 - US Army Engineer District) [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.42)] FS Date: 8/27/2019 2:58:00 PM					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	71
LM End	17.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385415 °	39.385415 °
				-121.831480 °	-121.831480 °
DWR ID	16370				

Comment Code

Inspector Comment

FS_ID:58510
DS_ID:16370
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issue. Minor scour is present at the concrete wingwalls located on LS. Need to contact owner to address maintenance issue (minor scour). No permit has been identified authorizing pipe. Structure is referenced in permit number 11805. Need to pull permit to review details and update structure description to reference correct permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 42 inch pipes transport water to LS sump. Quantity (4) irrigation pumps push water to adjacent irrigation ditches. WS crossing underwater. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 1 of 2: 42-inch corrugated metal irrigation pipe through the levee, 13.5 feet below the crown. Slide gates in corrugated metal pipe risers on the waterside (WS) slope. Concrete headwall on the WS end. Distribution box on the landside (LS) with three pumps mounted on I-beam. [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.43). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 17.43), As-built DWG No. 50-4-3511, Sheet No. 3511/26.2, STA 155+66W, page 26 of 31 electronic file, listed as two 42-inch CMPs through the levee (irrigation structure); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:24:00 PM

Photo 1 of 3 : UCIP_SP_2021_58510_67011.jpg



WS View of slope, risers, and channel.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	71 (cont)
LM End	17.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385415 °	39.385415 °
				-121.831480 °	-121.831480 °
DWR ID	16370				

Photo 2 of 3 : UCIP_SP_2021_58510_67010.jpg



View of WS headwall.

LM Start	17.19	Rating **	M	Issue No.	71 (cont)
LM End	17.19	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58510_67009.jpg



WS view of inlets during normal flow in April.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	72
LM End	17.19	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.385415 °	39.385415 °	
			-121.831480 °	-121.831480 °	
DWR ID	17133				

Comment Code

Inspector Comment

FS_ID:58511
DS_ID:17133
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issue. Minor scour is present at the concrete wingwalls located on LS. Need to contact owner to address maintenance issue (minor scour). No permit has been identified authorizing pipe. Structure is referenced in permit number 11805. Need to pull permit to review details and update structure description to reference correct permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/18/2012 42 inch pipes transport water to LS sump. Quantity (4) irrigation pumps push water to adjacent irrigation ditches. WS crossing underwater. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 2 of 2: 42-inch corrugated metal irrigation pipe through the levee, 13.5 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete headwall on the WS end. Distribution box on the landside (LS) with three pumps mounted on I-beam. [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.43). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 17.43), As-built DWG No. 50-4-3511, Sheet No. 3511/26.2, STA 155+66W, page 26 of 31 electronic file, listed as two 42-inch CMPs through the levee (irrigation structure); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:25:00 PM

Photo 1 of 3 : UCIP_SP_2021_58511_67003.jpg



View of WS slope, channel, and risers.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	72 (cont)
LM End	17.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385415 °	39.385415 °
				-121.831480 °	-121.831480 °
DWR ID	17133				

Photo 2 of 3 : UCIP_SP_2021_58511_67002.jpg



View of WS headwall.

LM Start	17.19	Rating **	M	Issue No.	72 (cont)
LM End	17.19	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58511_67001.jpg



View of WS headwall during normal water flow in April.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	73
LM End	17.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.385172 °	39.385172 °
				-121.832060 °	-121.832060 °
DWR ID	16369				

Comment Code

Inspector Comment

FS_ID:58512
DS_ID:16369
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Flap gate bolted shut. Hinges seem very stiff to operate as gate will not fully close and has about a 1/2" gap near the top. Land owner claims the gate leaks during high water times. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Sediment was dug out from WS flap gate allowing it to open. (A. Freitag - DWR Sutter Yard)07/15/2013 Slopes have been sprayed and cleared of vegetation and are in good condition. WS flap gate is blocked from opening by sediment buildup. (A. Freitag - DWR Sutter Yard)04/18/2012 Limited inspection on WS and LS slope due to dense vegetation and steep slopes. Need photos of cleared WS & LS slopes. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.47). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 17.47), As-built DWG No. 50-4-3511, Sheet No. 3511/26.2, STA 153+84W, page 26 of 31 electronic file, listed as 24-inch CMP pipe through the levee (drainage structure); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:25:00 PM

Photo 1 of 3 : UCIP_SP_2021_58512_67017.jpg



View of WS slope and 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	73 (cont)
LM End	17.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.385172 °	39.385172 °
				-121.832060 °	-121.832060 °
DWR ID	16369				

Photo 2 of 3 : UCIP_SP_2021_58512_67019.jpg



View of WS headwall and flap gate.

LM Start	17.23	Rating **	M	Issue No.	73 (cont)
LM End	17.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58512_67018.jpg



View of LS headwall.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.24	Rating **	M	Issue No.	74
LM End	17.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385058 °	39.385058 °
				-121.832210 °	-121.832210 °
DWR ID	16366				

Comment Code

Inspector Comment

FS_ID:57627
DS_ID:16366
EP_NO: 10918
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issue. Marker is no longer available on WS side. Recommend contacting owner to determine if line is still in use. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/03/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/13/2015 Crossing is in good condition. (A. Freitag - DWR Sutter Yard)05/22/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/03/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/15/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 0.6-inch telephone cable through the levee, 2 feet below the crown. Cable goes through MA13 at Unit 1 historic levee mile (HLM) 17.48 and Unit 2 HLM 19.56. (buried cable across channel (attached to bridge) and levees of Cherokee Canal authorized under Permit No. 10918, 1975 - Pacific Telephone and Telegraph Company [PT&T]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.48)]
FS Date: 8/27/2019 2:27:00 PM

LM Start	17.24	Rating **	M	Issue No.	74 (cont)
LM End	17.24	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_57627_67024.jpg



Underground telephone line marker.

Photo 2 of 3 : UCIP_SP_2021_57627_67025.jpg



Underground telephone cable splice box.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.24	Rating **	M	Issue No.	74 (cont)	
LM End	17.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.385058 °	39.385058 °	
				-121.832210 °	-121.832210 °	
DWR ID	16366					

Photo 3 of 3 : UCIP_SP_2021_57627_67023.jpg



Underground telephone line crossing at bridge

LM Start	17.47	Rating **	M	Issue No.	15
LM End	17.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.382852 °	39.378481 °
				-121.835654 °	-121.842394 °
DWR ID	DWR_MA0013_01_s_2012_15				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet**

Sutter Maintenance Yard Maintenance Area 0013

Waterway			Bank	Unit Miles
Unit No. 02 Cherokee Canal			Left	22.84
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2021 - 3/24/2021			
DWR Inspector	Makar Sokol			
Accompanied By	Bob Duffey Sutter Maintenance Yard			

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.05	Rating **	M	Issue No.	88
LM End	0.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.573826 °	39.573826 °
				-121.701266 °	-121.701266 °
DWR ID	DWR_MA0013_02_s _ 2021_88				
Comment Code					
FW : Firewood					
Inspector Comment					

No Photos

LM Start	0.05	Rating **	M	Issue No.	90
LM End	0.05	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.573821 °	39.573821 °
				-121.701265 °	-121.701265 °
DWR ID	DWR_MA0013_02_s _ 2021_90				
Comment Code					
FW : Firewood					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.05	Rating **	M	Issue No.	2
LM End	0.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.573816 °	39.573816 °
				-121.701290 °	-121.701290 °
DWR ID	16397				

Comment Code

Inspector Comment

FS_ID:58518
DS_ID:16397
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. 4inch pipe still present on LS but it does not affect the function of the crossing. (A. Freitag - DWR Sutter Yard)09/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--sleeved pipe does not prevent flap gate from closing on WS. Still need to coordinate with owner to remove sleeved pipe through existing crossing per Title 23. (O. Magana - DWR UCIP)04/27/2016 Crossing appears to be in good condition. 4 inch pipe is still present in LS opening but does not go all the way through to the WS. (A. Freitag - DWR Sutter Yard)07/01/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 4in. Pipe was removed and flap gate is closed and ready for high water. (A. Freitag - DWR Sutter Yard)07/10/2013 Same as last inspection. Urgency rating carry over from last entry. (A. Freitag - DWR Sutter Yard)04/19/2012 4-6 inch pipe is not part of original crossing--remove pipe. WS-pipe stockpile on WS slope. LS-Overgrown branches limit inspection. This crossing was listed in the USACE Periodic Inspection report listed as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0009 for WS flap gate not functioning properly as irrigation pipe passes inside crossing. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 6 feet below the crown. Concrete "U" headwalls on both WS and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 0.04). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 0.04), listed as 24-inch pipe, no As-built reference found].
FS Date: 8/28/2019 12:55:00 PM

Photo 1 of 3 : UCIP_SP_2021_58518_45640.jpg



Overview looking south on left levee

* 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/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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.05	Rating **	M	Issue No.	2 (cont)
LM End	0.05	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.573816 °	39.573816 °	
			-121.701290 °	-121.701290 °	
DWR ID	16397				

Photo 2 of 3 : UCIP_SP_2021_58518_45642.jpg



Headwall and flap gate on WS. Soil and pipes stockpiled next to headwall.

LM Start	0.05	Rating **	M	Issue No.	2 (cont)
LM End	0.05	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58518_45643.jpg



LS headwall blocked by overgrown branches.

LM Start	0.07	Rating **	M	Issue No.	1
LM End	0.17	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.573523 °	39.572455 °
				-121.701387 °	-121.702370 °
DWR ID	DWR_MA0013_02_s_2012_1				
Comment Code					
EQ : Equipment					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.19	Rating **	M	Issue No.	55
LM End	0.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.572159 °	39.572159 °
				-121.702368 °	-121.702368 °
DWR ID	DWR_MA0013_02_f_2019_55				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.58	Rating **	M	Issue No.	3
LM End	0.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.566479 °	39.566479 °
				-121.702430 °	-121.702430 °
DWR ID	16398				

Comment Code

Inspector Comment

FS_ID:58519
DS_ID:16398
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe and modifications. Structure type has been changed from drainage to irrigation. Mr. Sohnrey property owner mentioned that this pipe is being used as irrigation line. DMP phase 1 internal inspection did not show any major defects through the section inspected (about 30 feet). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS ditch at outlet is getting over grown with vegetation. WS near concrete standpipe is overgrown with vegetation. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Between the screw gate on the WS shoulder and the LS pipe end the pipe is about 50% full of soil. Crossing is still actively used by landowner for irrigation purposes. (A. Freitag - DWR Sutter Yard)04/27/2016 Pipe gets used by the landowner to irrigate his rice fields. It appeared to be in good condition. (A. Freitag - DWR Sutter Yard)07/01/2015 LS pipe end is still about 50% full of sediment. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken. (A. Freitag - DWR Sutter Yard)04/19/2012 Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). 36-inch concrete stanpipe in the channel (located about 80 feet from levee toe) with two wooden piles to deflect debris. [Additional Reference(s): DWR Levee Log, 1993 (HLM 0.57). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 0.57), listed as 24-inch pipe, no As-built reference found]
FS Date: 8/28/2019 1:25:00 PM

Photo 1 of 3 : UCIP_SP_2021_58519_67047.jpg



Overview looking south

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	0.58	Rating **	M	Issue No.	3 (cont)
LM End	0.58	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.566479 °	39.566479 °	
			-121.702430 °	-121.702430 °	
DWR ID	16398				

Photo 2 of 3 : UCIP_SP_2021_58519_67048.jpg



View of WS slope and toe.

LM Start	0.58	Rating **	M	Issue No.	3 (cont)
LM End	0.58	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58519_67045.jpg



Screw gate located on WS of levee. Screw gate covers needs to be repaired.

LM Start	0.93	Rating **	M	Issue No.	91
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.561421 °	39.559244 °
				-121.703055 °	-121.704734 °
DWR ID	DWR_MA0013_02_s_2021_91				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_91_20210407_00179.jpg



View of the vegetation along the landside slope. 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.60	Rating **	U	Issue No.	56
LM End	1.63	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.552195 °	39.551731 °
				-121.704786 °	-121.704721 °
DWR ID	DWR_MA0013_02_s _ 2016_56				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_56_20210224_00007.jpg



View of the agricultural ditch along the landside 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.67	Rating **	M	Issue No.	4
LM End	1.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551439 °	39.551439 °
				-121.705230 °	-121.705230 °
DWR ID	16833				

Comment Code

Inspector Comment

FS_ID:58520
DS_ID:16833
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. No other issues were recorded during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 Crossing appears to be in good condition. Pump was running during site visit. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/01/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/19/2012 This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0106 for pump station. Permit 3953 is not associated to this crossing. This 16 inch crossing is listed under the USACE O&M Manual with pump on WS. Permit information was incorrect in USACE's report. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee at an unknown depth below the crown. Groundwater pump is located on the waterside (WS). Power pole located on the landside (LS) of levee. Power runs through the levee to pump meter located on the WS.
[Additional Reference(s): USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 1.67), listed as 16-inch pipe, no As-built reference found]
FS Date: 8/28/2019 1:25:00 PM

Photo 1 of 3 : UCIP_SP_2021_58520_67055.jpg



Overview looking south

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.67	Rating **	M	Issue No.	4 (cont)
LM End	1.67	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.551439 °	39.551439 °	
			-121.705230 °	-121.705230 °	
DWR ID	16833				

Photo 2 of 3 : UCIP_SP_2021_58520_67054.jpg



Pump located on water side of levee

LM Start	1.67	Rating **	M	Issue No.	4 (cont)
LM End	1.67	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58520_67053.jpg



Discharge pipe and distribution box located on land side of levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.70	Rating **	M	Issue No.	5
LM End	1.70	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.551178 °	39.551178 °	
			-121.705660 °	-121.705660 °	
DWR ID	16399				

Comment Code

Inspector Comment

FS_ID:58573
DS_ID:16399
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS slide gate stem is bent and the gate appears as if it will not open. LS inlet is becoming heavily vegetated next to rice field. WS flap gate is blocked shut by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 LS screw gate still bent and in-operable. (A. Freitag - DWR Sutter Yard)04/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition. (A. Freitag - DWR Sutter Yard)07/01/2015 LS screw gate frame is still twisted and hindering the gate from opening. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening. (A. Freitag - DWR Sutter Yard)04/19/2012 Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning because of overgrown vegetation. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 7.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate at the LS toe in headwall. In 1962, permit number 3953 was issue for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. (existing water transfer ditch and pump authorized under Permit No. 3953, 1960 - Dr. John O. Gibbs, DBA Empire Land Company, electronic permit page 12 of 22, "The pipe was installed through the levee by the Corps of Engineers during construction of the levee. The pipe was installed as a drainage pipe and is equipped with a slide gate on the landward end and a flap gate on the waterward end.") [Additional Reference(s): DWR Levee Log, 1993 (HLM 1.67). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 1.70), listed as 24-inch pipe, no As-built reference found]
FS Date: 8/28/2019 1:25:00 PM

Photo 1 of 3 : UCIP_SP_2021_58573_67059.jpg



Overview of crossing

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	1.70	Rating **	M	Issue No.	5 (cont)
LM End	1.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.551178 °	39.551178 °
				-121.705660 °	-121.705660 °
DWR ID	16399				

Photo 2 of 3 : UCIP_SP_2021_58573_67058.jpg



View of flap gate on WS.

LM Start	1.70	Rating **	M	Issue No.	5 (cont)
LM End	1.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58573_67057.jpg



View of 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	6	
LM End	2.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.539195 °	39.539195 °	
				-121.706070 °	-121.706070 °	
DWR ID	16400					
Comment Code						
Inspector Comment						
FS_ID:58522 DS_ID:16400 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS inlet was underwater. WS flap gate blocked shut by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard) 11/18/2016 Sediment dug out from in front of flap gate. Gate can now function properly. (A. Freitag - DWR Sutter Yard)04/27/2016 WS flap gate still blocked from opening by sediment buildup. (A. Freitag - DWR Sutter Yard)07/01/2015 New screw gate installed on the LS. WS flap gate is still blocked from opening by sediment. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 Sediment is built up against WS flap gate not allowing it to open. Handle for LS slide gate is still missing. (A. Freitag - DWR Sutter Yard)04/19/2012 Handle missing on slide gate. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.53). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 2.54), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 899+10E LT BK, page 20 of 28 electronic file, listed as two 36-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/28/2019 1:09:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58522_67063.jpg



Overview of levee crown looking south

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	6 (cont)
LM End	2.53	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.539195 °	39.539195 °	
			-121.706070 °	-121.706070 °	
DWR ID	16400				

Photo 2 of 3 : UCIP_SP_2021_58522_67068.jpg



View of WS slope.

LM Start	2.53	Rating **	M	Issue No.	6 (cont)
LM End	2.53	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58522_67064.jpg



Headwall and flap gates (2) located on WS

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	7	
LM End	2.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.539179 °	39.539179 °	
				-121.706060 °	-121.706060 °	
DWR ID	17169					
Comment Code						
Inspector Comment						
FS_ID:58523 DS_ID:17169 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS inlet was underwater. WS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/01/2015 New screw gate installed on the LS. WS appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.53). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 2.54), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 899+10E LT BK, page 20 of 28 electronic file, listed as two 36-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/28/2019 1:11:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58523_67075.jpg



Overview at levee crown looking south

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	7 (cont)	
LM End	2.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.539179 °	39.539179 °	
				-121.706060 °	-121.706060 °	
DWR ID	17169					

Photo 2 of 3 : UCIP_SP_2021_58523_67074.jpg



View of WS slope.

LM Start	2.53	Rating **	M	Issue No.	7 (cont)
LM End	2.53	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58523_67071.jpg



Headwall and flap gates (2) located on the WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.62	Rating **	M	Issue No.	8
LM End	2.62	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID	16402				

Comment Code

Inspector Comment

FS_ID:58524
DS_ID:16402
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Sediment blocking LS slide gate from closing fully. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Sediment still blocking screw gate from fully closing. (A. Freitag - DWR Sutter Yard)04/27/2016 LS slide gate is full of sediment and needs to be dug out so gate can close fully. (A. Freitag - DWR Sutter Yard)07/01/2015 LS screw gate is still silted in and unable to be screwed down all the way. Needs to be cleaned out. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 WS flap gate was closed but LS slide gate is heavily vegetated and blocked from closing by sediment. (A. Freitag - DWR Sutter Yard)07/10/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/19/2012 Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0148 for LS gate obstructed by vegetation and WS flap gate is not functioning (propped open). (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. Structure used to drain water from Nelson Shippe Road. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.63). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 2.63), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 895+65E LT BK, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/28/2019 1:13:00 PM

Photo 1 of 3 : UCIP_SP_2021_58524_67077.jpg



Overview looking south from left levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.62	Rating **	M	Issue No.	8 (cont)
LM End	2.62	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID	16402				

Photo 2 of 3 : UCIP_SP_2021_58524_67076.jpg



Headwall and flap gate located on WS.

LM Start	2.62	Rating **	M	Issue No.	8 (cont)
LM End	2.62	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58524_67078.jpg



Headwall and screw gate located on 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.63	Rating **	M	Issue No.	9
LM End	2.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537671 °	39.537671 °
				-121.706210 °	-121.706210 °
DWR ID	16403				

Comment Code

Inspector Comment

FS_ID:58525
DS_ID:16403
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/01/2015 WS flap gate is partially blocked by sediment and needs to be cleaned. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)04/19/2012 Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.64). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 2.65), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 892+57E LT BK, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/28/2019 1:15:00 PM

Photo 1 of 3 : UCIP_SP_2021_58525_67087.jpg



Overview at levee crown looking south

* 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/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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.63	Rating **	M	Issue No.	9 (cont)	
LM End	2.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.537671 °	39.537671 °	
				-121.706210 °	-121.706210 °	
DWR ID	16403					

Photo 2 of 3 : UCIP_SP_2021_58525_67084.jpg



Headwall and flap gate located on WS

LM Start	2.63	Rating **	M	Issue No.	9 (cont)
LM End	2.63	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58525_67086.jpg



Headwall and screw gate located on the 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	10
LM End	2.65	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.537466 °	39.537466 °	
			-121.706240 °	-121.706240 °	
DWR ID	16415				

Comment Code

Inspector Comment

FS_ID:58526
DS_ID:16415
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Both inlet/outlet were underwater during inspection. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both gates partially submerged during site visit. Appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 LS screw gate closed but partially buried. WS flap gate was half submerged for inspection. (A. Freitag - DWR Sutter Yard)04/27/2016 Both gates were underwater for inspection. (A. Freitag - DWR Sutter Yard)07/01/2015 WS flap gate is partially held open by sediment and needs to be dug out to allow it to fully close. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Both gates were out of water and in good condition. (A. Freitag - DWR Sutter Yard)07/10/2013 LS and WS slopes are in good condition. Both LS and WS gates were fully submerged in water and unable to be inspected. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.65). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 2.66), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 891+80E LT BK, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/28/2019 1:16:00 PM

Photo 1 of 3 : UCIP_SP_2021_58526_67090.jpg



Overview looking south from left levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	10 (cont)	
LM End	2.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.537466 °	39.537466 °	
				-121.706240 °	-121.706240 °	
DWR ID	16415					

Photo 2 of 3 : UCIP_SP_2021_58526_67091.jpg



Headwall and flap gate located on WS.

LM Start	2.65	Rating **	M	Issue No.	10 (cont)
LM End	2.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58526_67092.jpg



WS headwall and flap gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.59	Rating **	M	Issue No.	11
LM End	3.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.523829 °	39.523829 °
				-121.706290 °	-121.706290 °
DWR ID	16405				

Comment Code

Inspector Comment

FS_ID:58527

DS_ID:16405

EP_NO: N/A

Repair Type: Non-Urgent

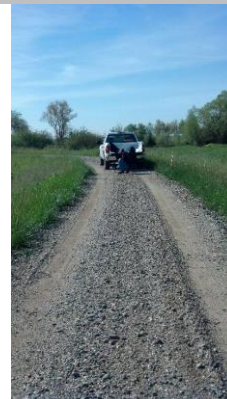
Crossing Status: Found

UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Structure is buried and non-functional. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Abandoned- LS slide gate completely buried in rice field and WS flap gate almost fully buried. (A. Freitag - DWR Sutter Yard)11/18/2016 appears abandoned. Both gates completely buried. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears abandoned. LS screw gate still buried and WS flap gate was 95% buried. (A. Freitag - DWR Sutter Yard)07/01/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flap gate is blocked from opening by sediment and debris. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 LS slide gate is completely buried by soil and WS flap gate is blocked from opening by sediment. Crossing appears abandoned and non-function. (A. Freitag - DWR Sutter Yard)

07/10/2013 LS and WS slopes have been cleared by vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected. (A. Freitag - DWR Sutter Yard)04/19/2012 Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetation-need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation. (O. Magana - DWR UCIP)

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.61). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.61), As-built DWG No. 50-4-3608, Sheet No. 3608/5.2, 19.1, STA 4+50C RT. BK. (Cottonwood), page 5, 20 of 28 electronic file, listed as 36-inch pipe] FS Date: 8/28/2019 1:27:00 PM

Photo 1 of 3 : UCIP_SP_2021_58527_67094.jpg



Overview looking south from left levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.59	Rating **	M	Issue No.	11 (cont)
LM End	3.59	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.523829 °	39.523829 °	
			-121.706290 °	-121.706290 °	
DWR ID	16405				

Photo 2 of 3 : UCIP_SP_2021_58527_67095.jpg



Flap gate submerged in water on WS of levee

LM Start	3.59	Rating **	M	Issue No.	11 (cont)
LM End	3.59	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58527_67096.jpg



View of flap gate submerged 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.65	Rating **	M	Issue No.	14
LM End	3.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.523556 °	39.523556 °
				-121.705340 °	-121.705340 °
DWR ID	16848				

Comment Code

Inspector Comment

FS_ID:58528
DS_ID:16848
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends submerged but appear to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. New slide gate installed on LS. (A. Freitag - DWR Sutter Yard)07/01/2015 Both gates were still submerged in water. Levee slopes were in good condition. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 LS slope has been cleared of vegetation and is in good condition. Both gates are still underwater and not able to be inspected. (A. Freitag - DWR Sutter Yard)04/19/2012 Dense vegetation makes it difficult to evaluate the condition of the LS slope. Both gates underwater. Recommend taking photos of clear slopes and gates during fall inspection. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.67). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.67), As-built DWG No. 50-4-3608, Sheet No. 3608/5.2, 19.1, STA 7+70C RT. BK. (Cottonwood), page 5, 20 of 28 electronic file, listed as 36-inch pipe]
FS Date: 8/28/2019 1:19:00 PM

Photo 1 of 3 : UCIP_SP_2021_58528_67102.jpg



Overview looking south on left levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.65	Rating **	M	Issue No.	14 (cont)
LM End	3.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.523556 °	39.523556 °
				-121.705340 °	-121.705340 °
DWR ID	16848				

Photo 2 of 3 : UCIP_SP_2021_58528_67103.jpg



Headwall and flap gate located on WS.

LM Start	3.65	Rating **	M	Issue No.	14 (cont)
LM End	3.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58528_67101.jpg



Headwall and screw gate located on 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.83	Rating **	M	Issue No.	15
LM End	3.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.524350 °	39.524350 °
				-121.702180 °	-121.702180 °
DWR ID	16847				

Comment Code

Inspector Comment

FS_ID:58529
DS_ID:16847
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends submerged but crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. It appears that this crossing does not require a slide gate. (A. Freitag - DWR Sutter Yard)04/27/2016 LS slide gate was still missing. Rest of crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/01/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Pulled sticks from WS flap gate to allow it to close. LS gate is still missing. (A. Freitag - DWR Sutter Yard)07/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks. (A. Freitag - DWR Sutter Yard)04/19/2012 LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13J_2011_p_0010 for WS gate wedged open & missing LS slide gate. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.85). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 3.85), As-built DWG No. 50-4-3608, Sheet No. 3608/5.2, 19.1, STA 16+85C RT. BK. (Cottonwood), page 5, 20 of 28 electronic file, listed as 36-inch pipe]
FS Date: 8/28/2019 1:21:00 PM

Photo 1 of 3 : UCIP_SP_2021_58529_67107.jpg



Overview looking south on left levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	3.83	Rating **	M	Issue No.	15 (cont)
LM End	3.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.524350 °	39.524350 °
				-121.702180 °	-121.702180 °
DWR ID	16847				

Photo 2 of 3 : UCIP_SP_2021_58529_67108.jpg



Headwall and flap gate located on WS toe.

LM Start	3.83	Rating **	M	Issue No.	15 (cont)
LM End	3.83	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58529_67110.jpg



View of channel at crossing looking D/S.

LM Start	4.04	Rating **	M	Issue No.	911
LM End	4.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.526653 °	39.534091 °
				-121.699675 °	-121.690404 °
DWR ID	DWR_MA0013_02_s_2012_911				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_911_20210224_00015.jpg



View of agricultural ditch along the 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.17	Rating **	M	Issue No.	16
LM End	4.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.528210 °	39.528210 °
				-121.698410 °	-121.698410 °
DWR ID	16846				

Comment Code

Inspector Comment

FS_ID:58530
DS_ID:16846
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent due to potential levee threat. Minor scour was visible on both WS and LS toe. No permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 Both ends submerged during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Both pipe ends underwater for this inspection. (A. Freitag - DWR Sutter Yard)04/27/2016 Both pipe ends were underwater for inspection. (A. Freitag - DWR Sutter Yard)07/01/2015 Both pipe ends and gates were fully submerged. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 WS slope is cleared of vegetation and is in good condition. Both gates were fully submerged under water and unable to be inspected. (A. Freitag - DWR Sutter Yard)04/19/2012 Rodent activity caused partial collapse on LS of levee in the vicinity of pipe. Limited inspection on WS slope due to dense vegetation. Limited inspection on gates due to both gates submerged under water. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. Concrete sump area with flash boards to drain farmers field is located on farmer's property near drain inlet. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.18). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 4.20), As-built DWG No. 50-4-3608, Sheet No. 3608/19, STA 15+85G RT. BK. (Gold Run), page 20 of 28 electronic file, listed as 36-inch pipe]
FS Date: 8/28/2019 1:31:00 PM

Photo 1 of 3 : UCIP_SP_2021_58530_67115.jpg



Overview looking east on right bank of Cottonwood

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.17	Rating **	M	Issue No.	16 (cont)	
LM End	4.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.528210 °	39.528210 °	
				-121.698410 °	-121.698410 °	
DWR ID	16846					

Photo 2 of 3 : UCIP_SP_2021_58530_67116.jpg



Unable to determine condition of flap gate on WS due to high water.

LM Start	4.17	Rating **	M	Issue No.	16 (cont)
LM End	4.17	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58530_67113.jpg



Overview of LS screw gate and concrete sump structure.

LM Start	4.17	Rating **	M	Issue No.	85
LM End	4.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.528244 °	39.528244 °
				-121.698401 °	-121.698401 °
DWR ID	DWR_MA0013_02_f_2020_85				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.65	Rating **	M	Issue No.	17	
LM End	4.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.532510 °	39.532510 °	
				-121.691340 °	-121.691340 °	
DWR ID	16845					
Comment Code						
Inspector Comment						
FS_ID:58532 DS_ID:16845 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS Slide gate mostly underwater due to rice field being flooded but crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)07/01/2015 Crossing appears to be in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/10/2013 WS slope has been cleared of vegetation and is in good condition. (A. Freitag - DWR Sutter Yard)04/19/2012 Limited inspection due to dense vegetation on WS slope. Need photos of clear WS slope. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.6 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.69). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 4.69), listed as 24-inch pipe, no As-built reference found] FS Date: 8/28/2019 3:31:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58532_67119.jpg



Overview looking east on right levee of Gold Run Creek (referred to Unit 2 of Cherokee Canal).

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	4.65	Rating **	M	Issue No.	17 (cont)
LM End	4.65	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.532510 °	39.532510 °	
			-121.691340 °	-121.691340 °	
DWR ID	16845				

Photo 2 of 3 : UCIP_SP_2021_58532_67122.jpg



Headwall and flap gate located on WS.

LM Start	4.65	Rating **	M	Issue No.	17 (cont)
LM End	4.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58532_67123.jpg



View of channel at crossing.

LM Start	4.78	Rating **	M	Issue No.	89
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.534475 °	39.534475 °
				-121.690421 °	-121.690421 °
DWR ID	DWR_MA0013_02_s_2020_89				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.01	Rating **	M	Issue No.	22
LM End	5.01	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.526298 °	39.526298 °	
			-121.688320 °	-121.688320 °	
DWR ID	16395				

Comment Code

Inspector Comment

FS_ID:58533
DS_ID:16395
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 WS mostly submerged but crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. Pipe is a 30" cmp. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Erosion on LS does not appear to be getting any worse with the rip-rap there. WS pipe end and gate appeared in good condition. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/19/2012 Rusted pipe debris located on WS. Remove pipe debris on WS and monitor the LS erosion near headwall. Rip-rap used to protect LS headwall from erosion. Was pipe exposed prior to dumping rock? Erosion on the LS could have exposed pipe. Dense shrub on the LS could restrict flow. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.06), listed as 3-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.06), listed as 30-inch pipe, no As-built reference found]
FS Date: 8/28/2019 3:04:00 PM

Photo 1 of 3 : UCIP_SP_2021_58533_67131.jpg



Overview looking west on the left levee of Cottonwood

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.01	Rating **	M	Issue No.	22 (cont)	
LM End	5.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.526298 °	39.526298 °	
				-121.688320 °	-121.688320 °	
DWR ID	16395					

Photo 2 of 3 : UCIP_SP_2021_58533_67129.jpg



Headwall and flap gate located on WS.

LM Start	5.01	Rating **	M	Issue No.	22 (cont)
LM End	5.01	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58533_67126.jpg



View of channel at crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.03	Rating **	M	Issue No.	23
LM End	5.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526400 °	39.526400 °
				-121.688610 °	-121.688610 °
DWR ID	16837				

Comment Code

Inspector Comment

FS_ID:58534
DS_ID:16837
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no records were obtained to determine line status. Need to contact owner to obtain maintenance records. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Markers are present. Crossing is in good condition. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 New carsonite marker installed with concrete access box on LS about 10 feet east of highway 99. Depth is still unknown. (A. Freitag - DWR Sutter Yard)04/24/2012 Markers not present or visible for hazard line (Health & Safety Issue) unknown depth. Owner is not compliant with Title 23. USA flag located on LS however not visible. No permanent markers available only underground service alert (USA) flags. Active line? Will need to contact PG&E and find out the status of line through levee. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 6-inch steel gas line through the levee unknown depth below the crown. [Additional Reference(s): USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.08), listed as 6-inch pipe, no As-built reference found]
FS Date: 8/28/2019 3:05:00 PM

Photo 1 of 3 : UCIP_SP_2021_58534_67132.jpg



Overview looking west from the left levee of Cottonwood

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.03	Rating **	M	Issue No.	23 (cont)
LM End	5.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526400 °	39.526400 °
				-121.688610 °	-121.688610 °
DWR ID	16837				

Photo 2 of 3 : UCIP_SP_2021_58534_67133.jpg



USA indicator located at land side of levee

LM Start	5.03	Rating **	M	Issue No.	23 (cont)
LM End	5.03	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58534_67134.jpg



USA indicator located at land side of levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.06	Rating **	M	Issue No.	24
LM End	5.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526554 °	39.526554 °
				-121.688940 °	-121.688940 °
DWR ID	16407				

Comment Code

Inspector Comment

FS_ID:57645
DS_ID:16407
EP_NO: 6084
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issues. Sign knocked over. Unable to determine if line has been abandoned. Need to contact owner to make them aware of the sign knocked over and to determine whether line is still in use. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing is in good condition. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: Underground telephone cable, 1.5-inch through the levee at approximately 2 feet below the crown. (buried cable across the levees and channels of Cottonwood Creek and Cherokee Canal authorized under Permit No. 6084, 1968 - Pacific Telephone and Telegraph Company [PT&T]) . Contact number for this crossing is 1-800-642-2444. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.10)]
FS Date: 8/28/2019 3:09:00 PM

LM Start	5.06	Rating **	M	Issue No.	24 (cont)
LM End	5.06	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_57645_67136.jpg



Underground telephone line indicator on LS of Cottonwood left levee looking South on highway.

Photo 2 of 3 : UCIP_SP_2021_57645_67137.jpg



Underground telephone line looking North towards highway.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.06	Rating **	M	Issue No.	24 (cont)
LM End	5.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526554 °	39.526554 °
				-121.688940 °	-121.688940 °
DWR ID	16407				

Photo 3 of 3 : UCIP_SP_2021_57645_74975.jpg



close up of marker sign LS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.09	Rating **	M	Issue No.	25
LM End	5.09	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.526917 °	39.526917 °	
			-121.689340 °	-121.689340 °	
DWR ID	16408				

Comment Code

Inspector Comment

FS_ID:58574
DS_ID:16408
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears to be in good condition. No apparent issues to report. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 WS and LS slopes have been cleared of vegetation and are in good condition. Slide gate on LS has been replaced. (A. Freitag - DWR Sutter Yard)04/24/2012 Slide gate is damaged, needs to be replaced. Limited inspection on WS slope and toe due to dense vegetation. Need photos of clear WS slope and toe. This crossing was listed in the USACE Periodic Inspection report as Corp's inspection ID# USACE_CESPK_M13H_2011_p_0026 for broken gate on LS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 5.7 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both WS and LS ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.13). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.13), listed as 24-inch pipe, no As-built reference found]
FS Date: 8/28/2019 3:11:00 PM

Photo 1 of 3 : UCIP_SP_2021_58574_67138.jpg



Overview of levee crown at crossing looking west.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.09	Rating **	M	Issue No.	25 (cont)
LM End	5.09	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.526917 °	39.526917 °	
			-121.689340 °	-121.689340 °	
DWR ID	16408				

Photo 2 of 3 : UCIP_SP_2021_58574_67140.jpg



Headwall and flap gate located on WS.

LM Start	5.09	Rating **	M	Issue No.	25 (cont)
LM End	5.09	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58574_67141.jpg



Overview of LS floor is higher in elevation than pipe invert causing build up sediment.

LM Start	5.09	Rating **	M	Issue No.	92
LM End	5.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526930 °	39.524383 °
				-121.689363 °	-121.695948 °
DWR ID	DWR_MA0013_02_s_2021_92				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.14	Rating **	M	Issue No.	86
LM End	5.14	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.526979 °	39.526979 °
				-121.690296 °	-121.690296 °
DWR ID	DWR_MA0013_02_f_2020_86				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	5.25	Rating **	M	Issue No.	87
LM End	5.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.526329 °	39.526329 °
				-121.692096 °	-121.692096 °
DWR ID	DWR_MA0013_02_f_2020_87				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.29	Rating **	M	Issue No.	26
LM End	5.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.525958 °	39.525958 °
				-121.692730 °	-121.692730 °
DWR ID	16409				

Comment Code

Inspector Comment

FS_ID:58536
DS_ID:16409
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Internal inspection under DMP Phase 1 is still pending, both inlet and outlet are underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 WS fully submerged and LS slide gate mostly buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 There is a flap gate on the WS and a slide gate on the LS. The LS slide gate appears to be partially buried and blocked by vegetation. (A. Freitag - DWR Sutter Yard)04/27/2016 LS slide gate is blocked by vegetation. Pipe appears to not be used. (A. Freitag - DWR Sutter Yard)06/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0035 non-functional crossing due to overgrown vegetation on WS flap gate. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.34). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.34), listed as 30-inch pipe, no As-built reference found]
FS Date: 8/28/2019 3:22:00 PM

Photo 1 of 3 : UCIP_SP_2021_58536_67146.jpg



Overview of crossing looking downstream.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.29	Rating **	M	Issue No.	26 (cont)
LM End	5.29	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.525958 °	39.525958 °	
			-121.692730 °	-121.692730 °	
DWR ID	16409				

Photo 2 of 3 : UCIP_SP_2021_58536_67149.jpg



View of WS headwall with dense vegetation in channel.

LM Start	5.29	Rating **	M	Issue No.	26 (cont)
LM End	5.29	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58536_67148.jpg



Headwall and flap gate located on WS.

LM Start	5.35	Rating **	M	Issue No.	57
LM End	5.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.525417 °	39.525417 °
				-121.693537 °	-121.693537 °
DWR ID	DWR_MA0013_02_f _ 2019_57				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.36	Rating **	M	Issue No.	27
LM End	5.36	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.525361 °	39.525361 °	
			-121.693630 °	-121.693630 °	
DWR ID	16410				

Comment Code

Inspector Comment

FS_ID:58537
DS_ID:16410
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe remains abandoned through the mid section of the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Abandoned- needs to be done properly. (A. Freitag - DWR Sutter Yard)11/18/2016 Abandoned pipe. It is still present on both sides of the levee and capped on the WS. (A. Freitag - DWR Sutter Yard)04/27/2016 Pipe appears abandoned. Should be removed. (A. Freitag - DWR Sutter Yard)06/30/2015 Pipe still present with the cap on the waterside. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of clear slopes during next inspection. Metal plate bolted on pipe for closure on WS, open on LS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 1.6 feet below the crown. Plate bolted on the waterside (WS) end. Open on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.41). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.41), listed as 6-inch pipe, no As-built reference found]
FS Date: 8/28/2019 3:15:00 PM

Photo 1 of 3 : UCIP_SP_2021_58537_67152.jpg



Overview of site

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.36	Rating **	M	Issue No.	27 (cont)
LM End	5.36	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525361 °	39.525361 °
				-121.693630 °	-121.693630 °
DWR ID	16410				

Photo 2 of 3 : UCIP_SP_2021_58537_67150.jpg



Capped irrigation pipe located on water side of levee

LM Start	5.36	Rating **	M	Issue No.	27 (cont)
LM End	5.36	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58537_67151.jpg



Irrigation crossing located on land side of levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	28
LM End	5.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523381 °	39.523381 °
				-121.701270 °	-121.701270 °
DWR ID	16411				

Comment Code

Inspector Comment

FS_ID:58538
DS_ID:16411
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, unable to determine if crossing is in use. Need to audit record to determine if Permit No. 13170 is associated with 36-inch. Slide gate that is supposed to be located on the WS is still missing. Need to check permit 13170 to see if this pipe crossing is also part of permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends were underwater but it appears that the LS slide gate is still missing. (A. Freitag - DWR Sutter Yard)11/18/2016 LS slide gate still missing. Both pipe ends were submerged during inspection. (A. Freitag - DWR Sutter Yard)09/27/2016 Crossing has been downgraded from Urgent to Non-Urgent-flap gate on WS is present only LS gate missing. (O. Magana - DWR UCIP)04/27/2016 Both sides of pipe were underwater. Appears that LS gate is still missing. (A. Freitag - DWR Sutter Yard)06/30/2015 Slide gate still missing on the LS. WS appears to be in good condition. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Slide gate missing on LS. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0017 for missing slide gate. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls located on both WS and LS toes. (secondary permit reference: 48-inch irrigation pipe authorized under Permit No. 13170, 1981 - S. S. Hinaman, Jr., USACE letter covers installation of a 36-inch pipe dated 14 July 1981, Board summary report references 36-inch pipe and not 48-inch pipe)[Additional Reference(s): DWR Levee Log, 1993 (HLM 5.85). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 5.85), As-built DWG No. 50-4-3608, Sheet No. 3608/22.3, STA 19+30 LT. BK. (Cottonwood), page 23 of 28 electronic file, listed as 36-inch pipe; As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/28/2019 3:17:00 PM

Photo 1 of 3 : UCIP_SP_2021_58538_67155.jpg



Overview looking south

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	28 (cont)
LM End	5.80	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.523381 °	39.523381 °	
			-121.701270 °	-121.701270 °	
DWR ID	16411				

Photo 2 of 3 : UCIP_SP_2021_58538_67157.jpg



Headwall and flap gate on WS.

LM Start	5.80	Rating **	M	Issue No.	28 (cont)
LM End	5.80	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58538_67156.jpg



Headwall and damaged/missing screw gate on 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	29
LM End	5.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523370 °	39.523370 °
				-121.701330 °	-121.701330 °
DWR ID	16466				

Comment Code

Inspector Comment

FS_ID:57650
DS_ID:16466
EP_NO: 13170
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, pipe appears to be part of a larger system and could have been modified. Flow meter labelled 30-58 located on the canal berm lines up with pipe crossing. Both inlet and outlet were underwater during inspection. Need to contact owner to determine purpose of pipe crossing. No other issues were recorded. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both pipe ends fully submerged during site visit but crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. Both pipe ends were submerged during inspection. (A. Freitag - DWR Sutter Yard)04/27/2016 Both sides of crossing were underwater but appeared in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 High water on both side of crossing still. Slopes appear in good condition. Both pipe ends and gates were submerged. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0058 for high water unable to see crossing. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee approximately 7 feet below the crown. Flap gate is located on the waterside (WS). (48-inch irrigation pipe authorized under Permit No. 13170, 1981 - S. S. Hinaman, Jr., USACE letter covers installation of a 36-inch pipe dated 14 July 1981, Board summary report references 36-inch pipe and not 48-inch pipe)
FS Date: 8/28/2019 3:19:00 PM

Photo 1 of 3 : UCIP_SP_2021_57650_67158.jpg



Overview photo of crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	29 (cont)
LM End	5.80	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.523370 °	39.523370 °	
			-121.701330 °	-121.701330 °	
DWR ID	16466				

Photo 2 of 3 : UCIP_SP_2021_57650_67159.jpg



Flap gate on WS unable to determine slope condition on WS due to overgrown vegetation.

LM Start	5.80	Rating **	M	Issue No.	29 (cont)
LM End	5.80	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57650_67160.jpg



Headwall and screw gate on land side of levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.06	Rating **	M	Issue No.	30
LM End	6.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522513 °	39.522513 °
				-121.706010 °	-121.706010 °
DWR ID	16412				

Comment Code

Inspector Comment

FS_ID:58539
DS_ID:16412
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photos of WS slope when cleared. Unable to find WS daylight point. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: [Western Canal Siphon] 1 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit 4 feet below the crown. Catwalk and guardrails around headwall. Debris catchment line located at the wings of the headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.13). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 6.13), listed as three 8-foot by 10-foot concrete conduit, no As-built reference found]
FS Date: 8/28/2019 3:26:00 PM

Photo 1 of 3 : UCIP_SP_2021_58539_67164.jpg



Overview looking south from left levee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.06	Rating **	M	Issue No.	30 (cont)
LM End	6.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522513 °	39.522513 °
				-121.706010 °	-121.706010 °
DWR ID	16412				

Photo 2 of 3 : UCIP_SP_2021_58539_67165.jpg



View of Western Canal Siphon (Richvale Siphon) on LS.

LM Start	6.06	Rating **	M	Issue No.	30 (cont)
LM End	6.06	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58539_67162.jpg



1 of 3 Eight (8) foot by Ten (10) foot concrete conduit (upstream conduit).

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.06	Rating **	M	Issue No.	31
LM End	6.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522488 °	39.522488 °
				-121.706030 °	-121.706030 °
DWR ID	17373				
Comment Code					
Inspector Comment					
FS_ID:58540 DS_ID:17373 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of WS slope when cleared. Unable to find WS outlet. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: [Western Canal Siphon] 2 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit 4 feet below the crown. Catwalk and guardrails around headwall. Debris catchment line located at the wings of the headwall. All conduits are open. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.13). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 6.13), listed as three 8-foot by 10-foot concrete conduit, no As-built reference found] FS Date: 8/28/2019 3:55:00 PM					

Photo 1 of 3 : UCIP_SP_2021_58540_67169.jpg



View of Western Canal Siphon (Richvale Siphon) located 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.06	Rating **	M	Issue No.	31 (cont)
LM End	6.06	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.522488 °	39.522488 °	
			-121.706030 °	-121.706030 °	
DWR ID	17373				

Photo 2 of 3 : UCIP_SP_2021_58540_67168.jpg



Debris catchment line across structure.

LM Start	6.06	Rating **	M	Issue No.	31 (cont)
LM End	6.06	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58540_67166.jpg



2 of 3 Eight (8) foot by Ten (10) foot conduit (middle conduit).

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.07	Rating **	M	Issue No.	32
LM End	6.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522457 °	39.522457 °
				-121.706030 °	-121.706030 °
DWR ID	17374				

Comment Code

Inspector Comment

FS_ID:58541
DS_ID:17374
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears to be in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of WS slope when cleared. Unable to find WS outlet. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: [Western Canal Siphon] 3 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit 4 feet below the crown. Catwalk and guardrails around headwall. Debris catchment line located at the wings of the headwall. All conduits are open. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.13). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 6.13), listed as three 8-foot by 10-foot concrete conduit, no As-built reference found]
FS Date: 8/28/2019 3:43:00 PM

Photo 1 of 3 : UCIP_SP_2021_58541_67172.jpg



View of Western Canal Siphon (Richvale Siphon) looking south.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	6.07	Rating **	M	Issue No.	32 (cont)
LM End	6.07	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.522457 °	39.522457 °	
			-121.706030 °	-121.706030 °	
DWR ID	17374				

Photo 2 of 3 : UCIP_SP_2021_58541_67171.jpg



Overview looking south from levee

LM Start	6.07	Rating **	M	Issue No.	32 (cont)
LM End	6.07	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58541_67170.jpg



3 of 3 Eight (8) foot by Ten (10) foot siphon. (downstream conduit)

LM Start	6.16	Rating **	M	Issue No.	12
LM End	7.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.521089 °	39.502958 °
				-121.706303 °	-121.716953 °
DWR ID	DWR_MA0013_02_s_2012_12				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_12_20210224_00001.jpg



View of the agricultural ditch along the 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	7.18	Rating **	M	Issue No.	33
LM End	7.18	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.507570 °	39.507570 °	
			-121.713870 °	-121.713870 °	
DWR ID	17518				
Comment Code					
Inspector Comment					
FS_ID:57661 DS_ID:17518 EP_NO: 5200B Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, unable to determine status of 36-inch pipe through levee. Need to contact owner to determine details regarding 36-inch pipe referenced in Permit No. 5200. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)11/18/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)04/27/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)06/30/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)05/29/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/09/2013 Unable to locate. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. Unable to locate. (A. Freitag - DWR Sutter Yard)04/24/2012 Not found - Need to verify if there are any signs of the structure during next inspection when slopes are cleared. If not will need to coordinate with applicant regarding the status of this structure. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee embankment, unknown depth below the crown. (reinforced concrete double box culverts, three 72-inch siphon pipes, and one 36-inch pipe authorized under Permit No. 5200, -A, -B, 1967 - Richvale Irrigation District) FS Date: 8/28/2019 3:55:00 PM					

No Photos

LM Start	9.23	Rating **	M	Issue No.	93
LM End	9.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.481574 °	39.478097 °	
			-121.732300 °	-121.734632 °	
DWR ID	DWR_MA0013_02_s_2021_93				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	34
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477542 °	39.477542 °
				-121.735080 °	-121.735080 °
DWR ID	16414				
Comment Code					
Inspector Comment					
FS_ID:58545 DS_ID:16414 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: [Richvale Irrigation District Siphon] 1 of 3: 6-foot by 6.5-foot reinforced concrete irrigation culverts through the levee 17.5 feet below the crown. Concrete "U" headwall with slots for flashboards on the landside (LS). Slide gate in gate well on downstream culvert on the waterside (WS) slope. Access well on downstream culvert 60 feet from the WS toe, manhole flush with the top of the ground. 36-inch corrugated metal pipe through the levee, 11.2 feet below the crown. Flap gate on the WS end. Concrete "U" headwalls on both ends. This pipe drains excess water from the District's canal into Cherokee Canal. The pipe runs through the levee on an angle and discharges opposite historic levee mile (HLM) 9.58. Richvale Irrigation District siphon crosses the channel and levee. [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.66). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 9.66), listed as three 6-foot by 6.5-foot concrete conduit, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 650+00E, page 21 of 28 electronic file, listed as conduit] FS Date: 8/28/2019 4:04:00 PM					

Photo 1 of 3 : UCIP_SP_2021_58545_67212.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	34 (cont)
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477542 °	39.477542 °	
			-121.735080 °	-121.735080 °	
DWR ID	16414				

Photo 2 of 3 : UCIP_SP_2021_58545_67214.jpg



View of crossing looking from the channel towards WS levee. Access well is covered by vegetation right corner.

LM Start	9.55	Rating **	M	Issue No.	34 (cont)
LM End	9.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58545_67213.jpg



WS view, close up of access well located approximately 60 feet from 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	35							
LM End	9.55	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		39.477527 °	39.477527 °								
			-121.735100 °	-121.735100 °								
DWR ID	17522											
Comment Code												
Inspector Comment												
FS_ID:58546 DS_ID:17522 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: [Richvale Irrigation District Siphon] 2 of 3: 6-foot by 6.5-foot concrete culvert through the levee, 17.5 feet below the crown. Concrete "U" headwalls with slots for flashboards on the landside (LS). Slide gate in gate well on downstream culvert on the waterside (WS) slope. Access well on downstream culvert 60 feet from the WS toe, manhole flush with the top of the ground. 36-inch corrugated metal pipe through the levee, 11.2 feet below the crown. Flap gate on the WS end. Concrete "U" headwalls on both ends. This pipe drains excess water from the District's canal into Cherokee Canal. The pipe runs through the levee on an angle and discharges opposite historic levee mile (HLM) 9.58. Richvale Irrigation District siphon crosses the channel and levee. [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.66). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 9.66), listed as three 6-foot by 6.5-foot concrete conduit, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 650+00E, page 21 of 28 electronic file, listed as conduit] FS Date: 8/28/2019 4:02:00 PM												

Photo 1 of 3 : UCIP_SP_2021_58546_67231.jpg



Overview of crossing looking downstream at Cherokee Canal.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	35 (cont)
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477527 °	39.477527 °	
			-121.735100 °	-121.735100 °	
DWR ID	17522				

Photo 2 of 3 : UCIP_SP_2021_58546_67233.jpg



View of crossing looking from the channel towards WS levee. Access well is covered by vegetation right corner.

LM Start	9.55	Rating **	M	Issue No.	35 (cont)
LM End	9.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58546_67234.jpg



WS view, close up of access well located approximately 60 feet from 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	36	
LM End	9.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.477513 °	39.477513 °	
				-121.735130 °	-121.735130 °	
DWR ID	17523					
Comment Code						
Inspector Comment						
FS_ID:58547 DS_ID:17523 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: [Richvale Irrigation District Siphon] 3 of 3: 6-foot by 6.5-foot concrete irrigation culvert through the levee, 17.5 feet below the crown. Concrete "U" headwalls with slots for flashboards on the landside (LS). Slide gate in gate well on downstream culvert on the waterside (WS) slope. Access well on downstream culvert 60 feet from the WS toe, manhole flush with the top of the ground. 36-inch corrugated metal pipe through the levee, 11.2 feet below the crown. Flap gate on the WS end. Concrete "U" headwalls on both ends. This pipe drains excess water from the District's canal into Cherokee Canal. The pipe runs through the levee on an angle and discharges opposite historic levee mile (HLM) 9.58. Richvale Irrigation District siphon crosses the channel and levee. [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.66). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 9.66), listed as three 6-foot by 6.5-foot concrete conduit, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 650+00E, page 21 of 28 electronic file, listed as conduit] FS Date: 8/28/2019 4:03:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58547_67265.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	36 (cont)
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477513 °	39.477513 °	
			-121.735130 °	-121.735130 °	
DWR ID	17523				

Photo 2 of 3 : UCIP_SP_2021_58547_67263.jpg



View of crossing looking from the channel towards WS levee. Access well is covered by vegetation right corner.

LM Start	9.55	Rating **	M	Issue No.	36 (cont)
LM End	9.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58547_67267.jpg



WS view, close up of access well located approximately 60 feet from 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	37
LM End	9.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.477438 °	39.477438 °
				-121.735200 °	-121.735200 °
DWR ID	16838				

Comment Code

Inspector Comment

FS_ID:58548
DS_ID:16838
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Path to access the WS flap gate was getting overgrown with vegetation but other than that everything with the crossing looked in good condition. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0080 for limited visibility of LS slide gate and WS flap gate. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Crossing drains into Cherokee Canal and is part of the Richvale Irrigation District siphon structure. Slide gate is located on the landside (LS). Flap gate is located on the waterside (WS). Crossing angles to the southwest to a flap gate and headwall located about 60 feet from WS toe. [Additional Reference(s): USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 9.66), listed as 36-inch pipe drain into Cherokee Canal, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 649+85E, page 21 of 28 electronic file]
FS Date: 8/28/2019 4:05:00 PM

Photo 1 of 3 : UCIP_SP_2021_58548_67280.jpg



Overview of levee crown at crossing looking D/S.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	37 (cont)	
LM End	9.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.477438 °	39.477438 °	
				-121.735200 °	-121.735200 °	
DWR ID	16838					

Photo 2 of 3 : UCIP_SP_2021_58548_67285.jpg



View of crossing looking from channel towards WS levee.

LM Start	9.56	Rating **	M	Issue No.	37 (cont)
LM End	9.56	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58548_67283.jpg



WS view-access well located 60 feet from 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.57	Rating **	M	Issue No.	38	
LM End	9.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.477335 °	39.477335 °	
				-121.735340 °	-121.735340 °	
DWR ID	16839					
Comment Code						
Inspector Comment						
FS_ID:58549 DS_ID:16839 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 WS flap gate is silted over and unable to open. Needs to be dug out. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Slopes were cleared of vegetation and are in good condition. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of WS and LS slopes during next inspection with cleared slopes. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 9.68), As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 648+82E, page 21 of 28 electronic file, listed as 30-inch; As-built DWG No. 50-4-3037 referenced not available] FS Date: 8/28/2019 4:05:00 PM						

Photo 1 of 3 : UCIP_SP_2021_58549_67289.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 1 of 2)

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.57	Rating **	M	Issue No.	38 (cont)
LM End	9.57	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.477335 °	39.477335 °	
			-121.735340 °	-121.735340 °	
DWR ID	16839				

Photo 2 of 3 : UCIP_SP_2021_58549_67287.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 2 of 2)

LM Start	9.57	Rating **	M	Issue No.	38 (cont)
LM End	9.57	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58549_67286.jpg



View of crossing from LS. Dense vegetation along LS slope limited visual inspection. (LS Photo 1 of 2)

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.60	Rating **	M	Issue No.	39
LM End	9.60	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477040 °	39.477040 °	
			-121.735610 °	-121.735610 °	
DWR ID	16470				
Comment Code					
Inspector Comment					
FS_ID:57669 DS_ID:16470 EP_NO: 3408 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no pipe has been found. Need to determine status of pipe through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)11/18/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)04/27/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)06/30/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Unable to locate. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. Unable to locate. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: Relocate existing cable inspection pit and lower underground cable. (4-foot by 6-foot inspection pit relocation and lowering existing underground cable authorized under Permit No. 3408, 1960 - Pacific Telephone and Telegraph Co.) FS Date: 8/28/2019 4:06:00 PM					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.66	Rating **	M	Issue No.	40
LM End	9.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476260 °	39.476260 °
				-121.736230 °	-121.736230 °
DWR ID	18912				

Comment Code

Inspector Comment

FS_ID:57670
DS_ID:18912
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been found authorizing this encroachment. Marker down on WS shoulder. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. Another marker was found/photographed near the LS toe. Crossing also appears to cross through the Unit1 levee around CLM8.860. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing is in good condition. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: Buried communication line of unknown material through the levee at an unknown depth below the crown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601 as indicated by marker. (Qwest Communication) No permit has been identified since crossing was field discovered in 2012.
FS Date: 8/28/2019 4:08:00 PM

Photo 1 of 3 : UCIP_SP_2021_57670_67292.jpg



Overview of levee crown at crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.66	Rating **	M	Issue No.	40 (cont)
LM End	9.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476260 °	39.476260 °
				-121.736230 °	-121.736230 °
DWR ID	18912				

Photo 2 of 3 : UCIP_SP_2021_57670_67291.jpg



Marker for buried fiber optic cable on WS.

LM Start	9.66	Rating **	M	Issue No.	40 (cont)
LM End	9.66	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57670_67290.jpg



Marker for buried fiber optic cable on LS with contact information.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.67	Rating **	M	Issue No.	41
LM End	9.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476140 °	39.476140 °
				-121.736390 °	-121.736390 °
DWR ID	18913				

Comment Code

Inspector Comment

FS_ID:57671
DS_ID:18913
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been found authorizing this crossing. Also need maintenance records to determine condition of line. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears to be in good condition. But still unknown if this crossing was authorized or unauthorized. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Authorized/unauthorized encroachment? Contact Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com for additional info. Inquiries pertaining to inspection submit to pipelineinquiries@kindermorgan.com and reference as Engr Station 3173+48 plus include coordinates. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 8-inch high pressure line bored through the levee at depth unknown. Kinder Morgan is the owner of line--contact information is 213.624-9461 or Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com. Additional contact is Ken Yeo, Sacramento Local Area Manager, at 916.416.7938 or by email yeok@kindermorgan.com. Frank Villalovos is the primary contact for this crossing. No permit has been identified since crossing was field discovered in 2012.
FS Date: 8/28/2019 4:09:00 PM

Photo 1 of 3 : UCIP_SP_2021_57671_67295.jpg



Overview of levee crown at crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.67	Rating **	M	Issue No.	41 (cont)
LM End	9.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476140 °	39.476140 °
				-121.736390 °	-121.736390 °
DWR ID	18913				

Photo 2 of 3 : UCIP_SP_2021_57671_67294.jpg



WS marker with utility contact information.

LM Start	9.67	Rating **	M	Issue No.	41 (cont)
LM End	9.67	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57671_67293.jpg



View of LS slope and marker.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.69	Rating **	M	Issue No.	42
LM End	9.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.475960 °	39.475960 °
				-121.736540 °	-121.736540 °
DWR ID	18914				

Comment Code

Inspector Comment

FS_ID:57672
DS_ID:18914
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been found authorizing this crossing. Utility marker previously present on LS is missing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/18/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/27/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears to be in good condition. It is still unknown whether this crossing was authorized or unauthorized. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this crossing. Will need to coordinate with Pacific Telephone to determine if permit exist for this crossing. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: Underground communication cable through the levee, depth unknown below the crown. Owner of encroachment is Pacific Telephone. No permit has been identified since crossing was field discovered in 2012.
FS Date: 8/28/2019 4:09:00 PM

LM Start	9.69	Rating **	M	Issue No.	42 (cont)
LM End	9.69	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_57672_67299.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2021_57672_67300.jpg



Marker located on 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.69	Rating **	M	Issue No.	42 (cont)
LM End	9.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.475960 °	39.475960 °
				-121.736540 °	-121.736540 °
DWR ID	18914				

Photo 3 of 3 : UCIP_SP_2021_57672_67298.jpg



Underground cable marker with contact information.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.88	Rating **	M	Issue No.	43	
LM End	9.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.473410 °	39.473410 °	
				-121.738190 °	-121.738190 °	
DWR ID	17731					
Comment Code						
Inspector Comment						
FS_ID:57673 DS_ID:17731 EP_NO: 16994 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no crossing found. Will need to review permit in detail to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)11/18/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)04/27/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)06/30/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Unable to locate. (A. Freitag - DWR Sutter Yard)07/09/2013 Same as last inspection. Unable to locate any signs of this crossing. (A. Freitag - DWR Sutter Yard)04/24/2012 Unable to find any indicators for this crossing. It appears that this encroachment was not built. Check again during next inspection. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 10-inch high-density polyethylene (HDPE) communication conduit through the levee, unknown depth below the crown. Conduit contains fiber-optic cables that goes across and under (bored) Cherokee Canal and its levees. Twelve inner ducts through casing with hand holes placed at each end for initial and future installation of fiber optic telecommunications cable. (10-inch HDPE conduit across and under (bored) Cherokee Canal and its levees authorized under Permit No. 16994, 2000 - Level 3 Comm) FS Date: 8/28/2019 4:10:00 PM						

Photo 1 of 3 : UCIP_SP_2021_57673_80923.jpg



Overview of levee crown looking d/s towards where crossing should be.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	9.88	Rating **	M	Issue No.	43 (cont)
LM End	9.88	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.473410 °	39.473410 °	
			-121.738190 °	-121.738190 °	
DWR ID	17731				

Photo 2 of 3 : UCIP_SP_2021_57673_80925.jpg



LS view: overview of LS.

LM Start	9.88	Rating **	M	Issue No.	43 (cont)
LM End	9.88	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57673_80926.jpg



WS view: overview of WS.

LM Start	9.95	Rating **	M	Issue No.	94
LM End	10.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.472539 °	39.466320 °
				-121.738774 °	-121.742806 °
DWR ID	DWR_MA0013_02_s_2021_94				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	10.03	Rating **	M	Issue No.	13
LM End	10.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.471517 °	39.465113 °
				-121.739433 °	-121.743592 °
DWR ID	DWR_MA0013_02_s _ 2012_13				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_13_20210224_00002.jpg



View of the agricultural ditch along the 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	10.55	Rating **	M	Issue No.	44							
LM End	10.55	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		39.464710 °	39.464710 °								
			-121.743810 °	-121.743810 °								
DWR ID	16406											
Comment Code												
Inspector Comment												
<p>FS_ID:58550 DS_ID:16406 EP_NO: 1238 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of line through the levee. Need to obtain maintenance records to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears in good condition. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Permit was approved for 6-5/8 inch diameter not 8 inch. The permit granted permission to construct pipe to cross Cherokee Canal, Butte Creek, Clear Creek, & Ash Creek. The O&M manual list an 8 inch steel gas line at HLM 10.67, unable to determine if the gas line is the same crossing. Will need to contact applicant to obtain records. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 8-inch steel gas pipe through the levee at an unknown depth below the crown. Utility marker visible at the upstream and downstream face of highway bridge and along highway. Buried utility crosses bridge and crosses left bank of Cherokee Canal downstream of highway bridge. USA marking on highway indicate 6" STL LN 151. (Permit No. 1238, 1947 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 10.67). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 10.67), listed as 8-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/25.1, STA 597+05E, page 25 of 31 electronic file, listed as gas line through both levees] FS Date: 8/29/2019 7:30:00 AM</p>												

Photo 1 of 3 : UCIP_SP_2021_58550_67332.jpg



Utility marker is located near the upstream face of the highway bridge.

* 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/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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	10.55	Rating **	M	Issue No.	44 (cont)
LM End	10.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464710 °	39.464710 °
				-121.743810 °	-121.743810 °
DWR ID	16406				

Photo 2 of 3 : UCIP_SP_2021_58550_67333.jpg



Utility is angled. Alignment crosses highway.

LM Start	10.55	Rating **	M	Issue No.	44 (cont)
LM End	10.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58550_67331.jpg



Downstream utility marker is located across highway.

LM Start	10.59	Rating **	M	Issue No.	18
LM End	11.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.464305 °	39.450333 °
				-121.744172 °	-121.753157 °
DWR ID	DWR_MA0013_02_s_2012_18				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_18_20210224_00003.jpg



View of the agricultural ditch along the 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	10.77	Rating **	M	Issue No.	76
LM End	10.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.461876 °	39.461876 °
				-121.745735 °	-121.745735 °
DWR ID	DWR_MA0013_02_s _ 2019_76				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	11.24	Rating **	M	Issue No.	95
LM End	12.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.455804 °	39.435165 °
				-121.749667 °	-121.763653 °
DWR ID	DWR_MA0013_02_s _ 2021_95				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.88	Rating **	M	Issue No.	45
LM End	12.88	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.434779 °	39.434779 °
				-121.763940 °	-121.763940 °
DWR ID	16385				

Comment Code

Inspector Comment

FS_ID:58551
DS_ID:16385
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Need to change structure type from drainage to irrigation siphon. This crossing is associated with DSID 16334 in Unit 1. LS slide gate was under water during inspection. This structure is not maintained or operated by LMA-DWR Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 WS end cannot be located due to heavy vegetation. LS screw gate was mostly submerged during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 WS still heavily vegetated and cannot access the WS pipe end for inspection. Vegetation needs to be cleared back. (A. Freitag - DWR Sutter Yard)04/26/2016 LS headwall was visible but gate was underwater. WS still heavily vegetated and unable to be inspected. Vegetation needs to be cleared back. (A. Freitag - DWR Sutter Yard)06/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated. (A. Freitag - DWR Sutter Yard)04/24/2012 LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0147 for limited visibility of LS and WS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate in ditch on the landside (LS). Pipe under channel is a 24-inch siphon. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.02). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 13.03), listed as 30-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 24.1, STA 474+13E, page 9, 24 of 31 electronic file, listed as combination of new 30-inch section pipe through the levee and existing 24-inch concrete siphon pipe through the channel (Keller Siphon structure, irrigation facilities); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:31:00 AM

Photo 1 of 3 : UCIP_SP_2021_58551_67336.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	12.88	Rating **	M	Issue No.	45 (cont)
LM End	12.88	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2021_58551_67337.jpg



Stand pipe with screw gate WS

LM Start	12.88	Rating **	M	Issue No.	45 (cont)
LM End	12.88	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58551_67335.jpg



View of the inside of the WS stand pipe. No obstructions blocking slide gate.

LM Start	13.40	Rating **	M	Issue No.	19
LM End	16.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.428192 °	39.414202 °
				-121.768443 °	-121.781863 °
DWR ID	DWR_MA0013_02_s_2012_19				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_19_20210224_00004.jpg



View of the agricultural ditch along the 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**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.45	Rating **	M	Issue No.	96
LM End	13.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.427448 °	39.421822 °
				-121.768878 °	-121.772659 °
DWR ID	DWR_MA0013_02_s _ 2021_96				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.95	Rating **	M	Issue No.	46	
LM End	13.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.421077 °	39.421077 °	
				-121.773149 °	-121.773149 °	
DWR ID	16474					
Comment Code						
Inspector Comment						
FS_ID:57654 DS_ID:16474 EP_NO: 17030 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, crossing is not found. Need to contact owner to determine status of crossing. Need to determine status of pipe through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)11/17/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)04/26/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)06/30/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Unable to locate. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. Unable to locate. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: 8-inch high density polyethylene (HDPE), contains three 2-inch and three 1.5-inch fiber optic cables, backfilled with bentonite on the ends of the bore casing through the levee at an unknown depth below the crown. Conduit is bored across and under Cherokee Canal and its levees. Permit records indicates the conduit is buried 5 feet below the bottom of the low flow of the channel. Permit indicates work was completed as shown in submitted plans. Owner is listed in the permit as Pacific Fiber Link LLC but permit Inspection sheets list Worldwide Fiber. (three 2-inch and three 1.5-inch pipes containing fiber optic cables across and under (bored) Cherokee Canal and its levees authorized under Permit No. 17030, 2000 - Worldwide Fiber) FS Date: 8/29/2019 7:32:00 AM						

Photo 1 of 3 : UCIP_SP_2021_57654_80938.jpg



WS view: overview of WS. No signs of crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	13.95	Rating **	M	Issue No.	46 (cont)
LM End	13.95	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.421077 °	39.421077 °	
			-121.773149 °	-121.773149 °	
DWR ID	16474				

Photo 2 of 3 : UCIP_SP_2021_57654_80939.jpg



LS view: overview of LS. No signs of crossing.

LM Start	13.95	Rating **	M	Issue No.	46 (cont)
LM End	13.95	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_57654_80940.jpg



Overview of levee crown looking u/s towards where pipe should cross.

LM Start	15.31	Rating **	M	Issue No.	97
LM End	17.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.420595 °	39.402841 °
				-121.772091 °	-121.800130 °
DWR ID	DWR_MA0013_02_s_2021_97				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	15.44	Rating **	M	Issue No.	47
LM End	15.44	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.419209 °	39.419209 °	
			-121.773680 °	-121.773680 °	
DWR ID	16376				

Comment Code

Inspector Comment

FS_ID:58552
DS_ID:16376
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Crossing appears abandoned. LMA will need to coordinate with landowner to determine is drainage structure is still needed. DMP internal inspection shows that 90% of the pipe is filled with soil at a length of about 42 feet from WS flap gate. If crossing is not in use anymore, crossing will need to be abandoned properly or removed. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 LS pipe end is buried and location unknown. WS flap gate is bolted shut. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (A. Freitag - DWR Sutter Yard)04/26/2016 LS inlet appears to be buried as could not locate it. WS flap gate was bolted shut. This appears to be an abandoned crossing. (A. Freitag - DWR Sutter Yard)06/30/2015 Still unable to locate the LS pipe end. (A. Freitag - DWR Sutter Yard) 05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. WS flap gate was bolted shut to keep LS rice field flooded. (A. Freitag - DWR Sutter Yard)07/08/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unable to locate LS headwall. (A. Freitag - DWR Sutter Yard)04/24/2012 Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0011 for WS gate blocked by vegetation. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 15.62). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 15.62), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, STA 405+05E, page 8 of 31 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:32:00 AM

Photo 1 of 3 : UCIP_SP_2021_58552_67341.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	15.44	Rating **	M	Issue No.	47 (cont)
LM End	15.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.419209 °	39.419209 °
				-121.773680 °	-121.773680 °
DWR ID	16376				

Photo 2 of 3 : UCIP_SP_2021_58552_67343.jpg



Dense vegetation covering the majority of the WS. WS headwall difficult to see through dense vegetation.

LM Start	15.44	Rating **	M	Issue No.	47 (cont)
LM End	15.44	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58552_67342.jpg



View of WS headwall and flap gate.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	48
LM End	15.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.417043 °	39.417043 °
				-121.777240 °	-121.777240 °
DWR ID	16382				

Comment Code

Inspector Comment

FS_ID:58553
DS_ID:16382
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, structure is non-functional and abandoned. Structure is abandoned. LMA will need to coordinate with landowner to determine if pipe is still needed as drainage structure. Dense vegetation covers the WS outlet and only LS headwall is visible at LS toe. If structure is no longer needed then structure will need to be abandoned properly or removed according to Title 23. DWR DMP internal inspection shows pipe has been filled with grout starting at about 47 feet from WS flap gate. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 LS pipe end is buried and location unknown. WS flap gate bolted shut. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (A. Freitag - DWR Sutter Yard)04/26/2016 Appears to be an abandoned crossing. LS pipe end was still buried and WS flap gate was bolted shut. (A. Freitag - DWR Sutter Yard)06/30/2015 LS headwall still buried somewhere. WS looked to be in good condition. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the status of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). WS gate bolted shut and LS crossing is non-operable (inlet not found). Additional Reference(s): DWR Levee Log, 1993 (HLM 15.87). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 15.87), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, STA 392+42E, page 8 of 31 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:33:00 AM

Photo 1 of 3 : UCIP_SP_2021_58553_67352.jpg



Overview of crossing looking downstream of the left bank of Cherokee

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	48 (cont)
LM End	15.68	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.417043 °	39.417043 °	
			-121.777240 °	-121.777240 °	
DWR ID	16382				

Photo 2 of 3 : UCIP_SP_2021_58553_67351.jpg



View of WS slope. Limited inspection due to the dense vegetation.

LM Start	15.68	Rating **	M	Issue No.	48 (cont)
LM End	15.68	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58553_67350.jpg



View of WS headwall.

LM Start	16.02	Rating **	M	Issue No.	65
LM End	16.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.414021 °	39.414021 °
				-121.782199 °	-121.782199 °
DWR ID	DWR_MA0013_02_f _ 2016_65				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the landside toe.					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	16.07	Rating **	M	Issue No.	49
LM End	16.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.413595 °	39.413595 °
				-121.782890 °	-121.782890 °
DWR ID	16377				

Comment Code

Inspector Comment

FS_ID:58554
DS_ID:16377
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent due to maintenance issues. Unable to determine status of crossing. Steel pipe is deteriorated on the WS between concrete boxes. 36-inch pipe not visible inside concrete boxes. Recommend internal inspection to determine pipe condition through the levee. Riser lid missing on WS (considered a safety issue). LS inlet shows about 75% blockage. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 LS headwall was mostly buried and pipe end over 50% full of sediment. WS distribution box appears to have not been repaired yet but it does not seem to affect the integrity of the levee. (A. Freitag - DWR Sutter Yard)11/17/2016 LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking. (A. Freitag - DWR Sutter Yard)04/26/2016 LS headwall was dry and photographed. LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking. (A. Freitag - DWR Sutter Yard)06/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. (A. Freitag - DWR Sutter Yard) 05/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtenances in good condition. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under separate permit. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). Pipe discharges into distribution box on the WS. Divers on dam in stream. Pump located on the WS berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the LS field. Provision can be made to send water over streambed to irrigation overflow area. [Additional Reference(s): DWR Levee Log, 1993 (HLM 16.24). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 16.26), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact page, STA 372+13E, page 7 of 31 electronic file, listed as 36-inch CMP]
FS Date: 8/29/2019 7:34:00 AM

Photo 1 of 3 : UCIP_SP_2021_58554_67353.jpg



Overview of levee 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	16.07	Rating **	M	Issue No.	49 (cont)
LM End	16.07	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2021_58554_67359.jpg



Appurtenances on WS.

LM Start	16.07	Rating **	M	Issue No.	49 (cont)
LM End	16.07	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58554_67355.jpg



WS view of crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	16.86	Rating **	M	Issue No.	50	
LM End	16.86	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.406410 °	39.406410 °	
				-121.794600 °	-121.794600 °	
DWR ID	16841					
Comment Code						
Inspector Comment						
FS_ID:58555 DS_ID:16841 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/29/2019 Record remains Non-Urgent, unable to determine status of pipe through the levee. No signs were detected during DWR's Geophysical Study. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)11/17/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)04/26/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)06/30/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Unable to locate. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. Unable to locate. (A. Freitag - DWR Sutter Yard)04/24/2012 Dense vegetation limited inspection will need to verify is an features are still present at this location during the next inspection. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee at approximately 14.5 feet below the crown. Flap gate located on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 17.06), As-built DWG No. 50-4-3511, Sheet No. 3511/24.1, STA 329+83E, page 24 of 31 electronic file, listed as 30-inch CMP through the levee (drainage structure); As-built DWG No. 50-4-3037 referenced not available] FS Date: 8/29/2019 7:35:00 AM						

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**

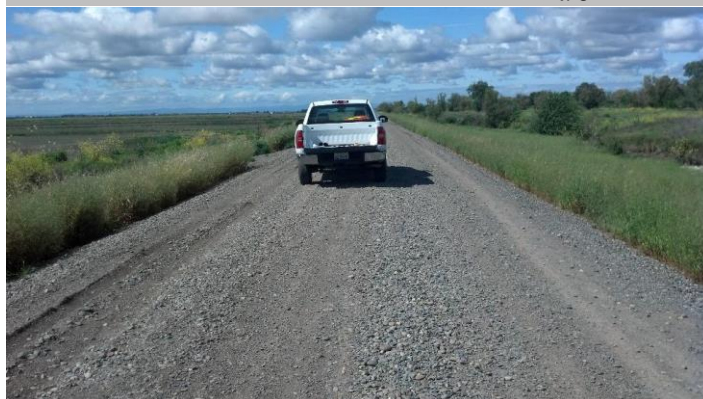
Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	16.87	Rating **	M	Issue No.	51
LM End	16.87	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.406401 °	39.406401 °
				-121.794640 °	-121.794640 °
DWR ID	16378				
Comment Code					
Inspector Comment					
FS_ID:58556 DS_ID:16378 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. No DWR internal inspection has been completed yet. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing appears in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Dense vegetation on the slopes restricted the field inspection at this crossing. Need photos of cleared WS and LS slopes, and appurtances. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. Walkway and slide gate located on the landside (LS) end. Concrete "U" headwalls on both end. Reference noted in Levee Logs as USACE-1960 does not match entry in . [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.06), listed as 30-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 17.06), listed as 36-inch CMP] FS Date: 8/29/2019 7:36:00 AM					

Photo 1 of 3 : UCIP_SP_2021_58556_67382.jpg



Overview of crossing looking downstream of the left bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	16.87	Rating **	M	Issue No.	51 (cont)
LM End	16.87	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.406401 °	39.406401 °	
			-121.794640 °	-121.794640 °	
DWR ID	16378				

Photo 2 of 3 : UCIP_SP_2021_58556_67383.jpg



View of WS slope.

LM Start	16.87	Rating **	M	Issue No.	51 (cont)
LM End	16.87	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58556_67380.jpg



View of flap gate slightly propped open by the sticks on the left.

LM Start	16.89	Rating **	M	Issue No.	20
LM End	18.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.406217 °	39.389187 °
				-121.794945 °	-121.821233 °
DWR ID	DWR_MA0013_02_s_2012_20				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_20_20210224_00005.jpg



View of the agricultural ditch along the 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	17.41	Rating **	N	Issue No.	67
LM End	17.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.401331 °	39.401331 °
				-121.802480 °	-121.802480 °
DWR ID	DWR_MA0013_02_f_2016_67				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Approximately eight stumps are present at the landside toe.					

No Photos

LM Start	17.63	Rating **	U	Issue No.	69
LM End	17.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.399319 °	39.399147 °
				-121.805524 °	-121.805783 °
DWR ID	DWR_MA0013_02_f_2016_69				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_69_20210224_00013.jpg



View of slope instability along the landside slope. Spring 2020.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	53
LM End	18.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.394406 °	39.394406 °
				-121.813180 °	-121.813180 °
DWR ID	16379				

Comment Code

Inspector Comment

FS_ID:58557
DS_ID:16379
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is under water. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Vegetation still present on WS. LS side was underwater during inspection. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 LS slope cleared of vegetation and is in good condition. WS is still vegetated. LS pipe end under water and blocked off by plywood so unable to measure culvert size. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0134 for unknown culvert size on LS and no outlet visible on WS. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 18.37). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 18.37), As-built DWG No. 50-4-3511, Sheet No. 3511/6. unable to read exact page, STA 261+67E, page 6 of 31 electronic file, listed as 36-inch CMP]
FS Date: 8/29/2019 7:36:00 AM

Photo 1 of 3 : UCIP_SP_2021_58557_67387.jpg



Overview of crossing looking D/S at left bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	53 (cont)
LM End	18.16	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.394406 °	39.394406 °	
			-121.813180 °	-121.813180 °	
DWR ID	16379				

Photo 2 of 3 : UCIP_SP_2021_58557_67386.jpg



View of WS slope and berm.

LM Start	18.16	Rating **	M	Issue No.	53 (cont)
LM End	18.16	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58557_67390.jpg



View of flap gate located on WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	19.32	Rating **	M	Issue No.	54
LM End	19.32	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.383700 °	39.383700 °
				-121.829850 °	-121.829850 °
DWR ID	16380				
Comment Code					
Inspector Comment					
FS_ID:57680 DS_ID:16380 EP_NO: 3511 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, unable to determine status of pipe through the levee. Crossing was not found. Need to determine status of crossing through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)11/17/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)04/26/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)06/30/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Unable to locate. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. Unable to locate. (A. Freitag - DWR Sutter Yard) FIELD_STRUCT_DESC: U.S. Army communication cable through the levee, 3 feet below the crown. (underground cable authorized under Permit No. 3511, 1961 - US Army Engineer District) [Additional Reference(s): DWR Levee Log, 1993 (HLM 19.54)] FS Date: 8/29/2019 7:37:00 AM					

No Photos

LM Start	19.37	Rating **	M	Issue No.	21
LM End	19.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.383252 °	39.378192 °
				-121.830565 °	-121.838543 °
DWR ID	DWR_MA0013_02_s_2012_21				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_21_20210224_00006.jpg



View of the agricultural ditch along the 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	19.37	Rating **	M	Issue No.	64
LM End	19.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.383307 °	39.383307 °
				-121.830485 °	-121.830485 °
DWR ID	16381				

Comment Code

Inspector Comment

FS_ID:57681
DS_ID:16381
EP_NO: 10918
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, due to maintenance issue. Recommend contacting owner to determine if line is still in use. No marker visible. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing is in good condition. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 0.6-inch telephone cable through the levee, 2 feet below the crown. Pipe attached to bridge visible on the waterside (WS). Splice box located on the landside (LS). (buried cable across channel (attached to bridge) and levees of Cherokee Canal authorized under Permit No. 10918, 1975 - Pacific Telephone and Telegraph Company [PT&T]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 19.55)]
FS Date: 8/29/2019 7:38:00 AM

LM Start	19.37	Rating **	M	Issue No.	64 (cont)
LM End	19.37	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_57681_67393.jpg



Overview of landside where cable splice box (by front loader) is located approximately 60 feet from levee crown.

Photo 2 of 3 : UCIP_SP_2021_57681_67394.jpg



Splice box information located on LS approximately 60 feet from levee 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	19.37	Rating **	M	Issue No.	64 (cont)
LM End	19.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.383307 °	39.383307 °
				-121.830485 °	-121.830485 °
DWR ID	16381				

Photo 3 of 3 : UCIP_SP_2021_57681_67395.jpg



View of WS where cable line is attached to culvert crossing.

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

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	68
LM End	19.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.378198 °	39.378198 °
				-121.838570 °	-121.838570 °
DWR ID	16375				

Comment Code

Inspector Comment

FS_ID:58558
DS_ID:16375
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Erosion still present at WS headwall. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Erosion still present at WS headwall. (A. Freitag - DWR Sutter Yard)04/26/2016 Erosion still present behind the WS headwall. The rest of the crossing appears in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Erosion still present behind the WS headwall. Everything thing else with the crossing appeared to be in good condition. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape. (A. Freitag - DWR Sutter Yard)04/24/2012 Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 20.15). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 20.15), As-built DWG No. 50-4-3511, Sheet No. 3511/4.3, STA 168+68E, page 4 of 31 electronic file, listed as 30-inch CMP through the levee]
FS Date: 8/29/2019 7:38:00 AM

Photo 1 of 3 : UCIP_SP_2021_58558_67401.jpg



Erosion behind WS headwall looking at the downstream edge of headwall.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	68 (cont)
LM End	19.92	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.378198 °	39.378198 °	
			-121.838570 °	-121.838570 °	
DWR ID	16375				

Photo 2 of 3 : UCIP_SP_2021_58558_67400.jpg



Erosion behind WS headwall at the upstream edge of headwall.

LM Start	19.92	Rating **	M	Issue No.	68 (cont)
LM End	19.92	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58558_67402.jpg



Flap gate located on the WS.

LM Start	20.52	Rating **	M	Issue No.	73
LM End	20.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.372486 °	39.372486 °
				-121.846537 °	-121.846537 °
DWR ID	DWR_MA0013_02_f _ 2016_73				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside slope and toe.					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	20.59	Rating **	M	Issue No.	66
LM End	20.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.371955 °	39.371955 °
				-121.847714 °	-121.847714 °
DWR ID	DWR_MA0013_02_s_2019_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the trees from the landside slope.					

No Photos

LM Start	20.70	Rating **	M	Issue No.	52
LM End	20.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.371108 °	39.371108 °
				-121.849520 °	-121.849520 °
DWR ID	DWR_MA0013_02_s_2014_52				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside slope and toe.					

No Photos

LM Start	20.74	Rating **	N	Issue No.	74
LM End	20.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.370796 °	39.370796 °
				-121.850124 °	-121.850124 °
DWR ID	DWR_MA0013_02_f _ 2016_74				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	70
LM End	20.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370676 °	39.370676 °
				-121.850490 °	-121.850490 °
DWR ID	16383				

Comment Code

Inspector Comment

FS_ID:58559
DS_ID:16383
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Urgent due to pipe and levee integrity concerns. Also no permit has been identified authorizing pump station. Pump station is still active. Crossing shows sloughing on the WS with visible holes in pipe on the LS. This crossing is under investigation under CVFPB enforcement case (ENF ID) 723. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 The CVFPB has filed an enforcement for this crossing, Enforcement Case: 2018-723. There is still massive erosion around the WS headwall and corrosion and degradation of the LS outlet pipes, so the crossing remains Urgent. (D. Sanoski - DWR UCIP)05/30/2017 No repairs have been made here yet. WS still has depressions above the pipe alignment. LS pipe end still showing heavy signs of rusting and deterioration. Sediment build up inside of concrete distribution box on the LS. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (A. Freitag - DWR Sutter Yard)04/26/2016 No repairs have been made at this crossing yet. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/19/2012 LS pipe collars severely damaged--section missing at flap gate. Buried section of pipe could be in the same condition. Crossing needs to be repaired; will need to coordinate with applicant. WS slide gate handle missing. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 1 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 21.00). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 21.00), As-built DWG No. 50-4-3511, Sheet No. 3511/23.3, STA 124+25.04E, page 23 of 31 electronic file, listed as three encased 16-inch steel pipes through the levee (irrigation structure); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:47:00 AM

Photo 1 of 3 : UCIP_SP_2021_58559_67406.jpg



Corrugated metal pipe risers with slide gates located 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	70 (cont)
LM End	20.76	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.370676 °	39.370676 °	
			-121.850490 °	-121.850490 °	
DWR ID	16383				

Photo 2 of 3 : UCIP_SP_2021_58559_67407.jpg



Corrugated metal pipe riser for pipe 1 of 3. Slide gate is missing handle.

LM Start	20.76	Rating **	U	Issue No.	70 (cont)
LM End	20.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58559_67409.jpg



Sink hole observed behind WS headwall at the downstream edge of headwall. (Sink hole picture 1 of 2)

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	71
LM End	20.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID	17014				

Comment Code

Inspector Comment

FS_ID:58560
DS_ID:17014
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Urgent due to pipe and levee integrity concerns. Also no permit has been identified authorizing pump station. Pump station is still active. Crossing shows sloughing on the WS with visible holes in pipe on the LS. This crossing is under investigation under CVFPB enforcement case (ENF ID) 723. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 The CVFPB has filed an enforcement for this crossing, Enforcement Case: 2018-723. There is still massive erosion around the WS headwall and corrosion and degradation of the LS outlet pipes, so the crossing remains Urgent. (D. Sanoski - DWR UCIP)05/30/2017 No repairs have been made here yet. WS still has depressions above the pipe alignment. LS pipe end still showing heavy signs of rusting and deterioration. Sediment build up inside of concrete distribution box on the LS. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (A. Freitag - DWR Sutter Yard)04/26/2016 No repairs have been made at this crossing yet. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 LS pipe collars severely damaged--section missing at flap gate. Crossing needs repair. Will need to coordinate with owner. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 2 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 21.00). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 21.00), As-built DWG No. 50-4-3511, Sheet No. 3511/23.3, STA 124+25.04E, page 23 of 31 electronic file, listed as three encased 16-inch steel pipes through the levee (irrigation structure); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:47:00 AM

Photo 1 of 3 : UCIP_SP_2021_58560_67416.jpg



WS view of corrugated metal pipe risers .

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	71 (cont)
LM End	20.76	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.370679 °	39.370679 °	
			-121.850500 °	-121.850500 °	
DWR ID	17014				



Riser for pipe 2 of 3.

LM Start	20.76	Rating **	U	Issue No.	71 (cont)
LM End	20.76	Issue Type +	En	Location *	



View of pipe 2. Pipe 2 diverts flow to pipe 1.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	72
LM End	20.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID	17185				

Comment Code

Inspector Comment

FS_ID:58561
DS_ID:17185
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Urgent due to pipe and levee integrity concerns. Also no permit has been identified authorizing pump station. Pump station is still active. Crossing shows sloughing on the WS with visible holes in pipe on the LS. This crossing is under investigation under CVFPB enforcement case (ENF ID) 723. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 The CVFPB has filed an enforcement for this crossing, Enforcement Case: 2018-723. There is still massive erosion around the WS headwall and corrosion and degradation of the LS outlet pipes, so the crossing remains Urgent. (D. Sanoski - DWR UCIP)05/30/2017 No repairs have been made here yet. WS still has depressions above the pipe alignment. LS pipe end still showing heavy signs of rusting and deterioration. Sediment build up inside of concrete distribution box on the LS. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (A. Freitag - DWR Sutter Yard)04/26/2016 No repairs have been made at this crossing yet. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Sink hole present on WS. LS pipe collars severely damaged--section missing at flap gate. Crossing needs repair. Need to coordinate with owner. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 3 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates in corrugated metal pipe risers on the waterside (WS) slope. Pump structure located on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 21.00). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 21.00), As-built DWG No. 50-4-3511, Sheet No. 3511/23.3, STA 124+25.04E, page 23 of 31 electronic file, listed as three encased 16-inch steel pipes through the levee (irrigation structure); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:48:00 AM

Photo 1 of 3 : UCIP_SP_2021_58561_67441.jpg



View of corrugated metal risers located on WS.

* 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**

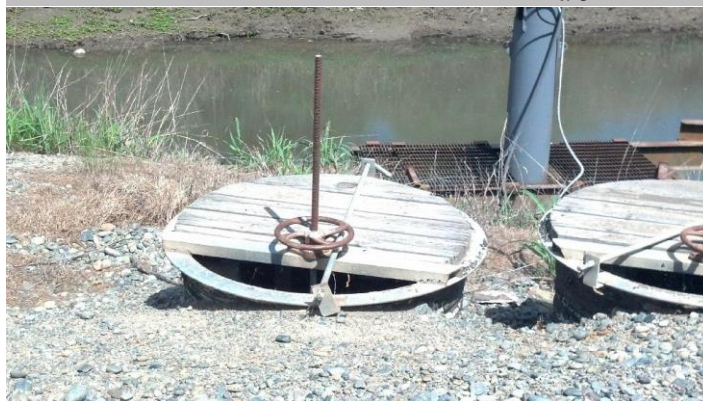
Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	72 (cont)
LM End	20.76	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.370679 °	39.370679 °	
			-121.850500 °	-121.850500 °	
DWR ID	17185				

Photo 2 of 3 : UCIP_SP_2021_58561_67443.jpg



View of corrugated metal pipe for pipe 3 of 3.

LM Start	20.76	Rating **	U	Issue No.	72 (cont)
LM End	20.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58561_67442.jpg



View of Pipe 3 of 3 from WS headwall.

LM Start	20.77	Rating **	M	Issue No.	75
LM End	20.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.370641 °	39.370641 °
				-121.850572 °	-121.850572 °
DWR ID	DWR_MA0013_02_f _ 2016_75				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_75_20210407_00180.jpg



View of the erosion along the waterside toe. Spring 2021.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.35	Rating **	M	Issue No.	77
LM End	21.35	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.366155 °	39.366155 °	
			-121.859880 °	-121.859880 °	
DWR ID	16384				

Comment Code

Inspector Comment

FS_ID:58562
DS_ID:16384
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent due to unauthorized encroachment with recent modifications. Structure type needs to be corrected from Drainage to Irrigation. During inspection water was flowing from WS to LS to irrigate the rice fields. Structure has been modified since 2012, unable to determine extent of repair through levee. Need to contact owner to determine section replaced through levee. Structure is not maintained or operated by LMA-DWR Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 Pipe section that crosses through the levee appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board. (A. Freitag - DWR Sutter Yard)06/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more details on repair. (A. Freitag - DWR Sutter Yard)04/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate present. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of existing pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (24-inch CMP authorized to match existing 24-inch CMP through left bank under Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993 (HLM 21.60). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 21.60), As-built DWG No. 50-4-3511, Sheet No. 3511/22, STA 93+21E, page 22 of 31 electronic file, listed as 24-inch CMP section through the levee (irrigation structure); As-built DWG No. 50-4-3037

Photo 1 of 3 : UCIP_SP_2021_58562_67447.jpg



Overview of crossing looking downstream.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

referenced not available]
FS Date: 8/29/2019 7:39:00 AM

LM Start	21.35	Rating **	M	Issue No.	77 (cont)
LM End	21.35	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2021_58562_67451.jpg



View of WS daylight. Hole present at pipe daylight.

LM Start	21.35	Rating **	M	Issue No.	77 (cont)
LM End	21.35	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58562_67450.jpg



WS-view of internal pipe with severe corrosion-holes present along pipe wall.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.81	Rating **	M	Issue No.	78
LM End	21.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362520 °	39.362520 °
				-121.867030 °	-121.867030 °
DWR ID	17732				

Comment Code

Inspector Comment

FS_ID:58707
DS_ID:17732
EP_NO: 17504
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of pipe through levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing and markers are in good condition. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Carsonite marker installed on WS shoulder identifying gas line location. (A. Freitag - DWR Sutter Yard)04/24/2012 Unable to find crossing during spring inspection. Will need to verify during Fall inspection when vegetation is removed from slopes. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch gas pipeline across and under (bored) Cherokee Canal and its levees with minimum of 50 feet of cover below the levee toes. (30-inch line authorized under Permit No. 17504, 2004 - David D. Davis-Matrix Environmental Planning) Emergency contact number is 1-800-352-8781.
FS Date: 8/29/2019 7:40:00 AM

LM Start	21.81	Rating **	M	Issue No.	78 (cont)
LM End	21.81	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_58707_67457.jpg



Carsonite marker on WS shoulder

Photo 2 of 3 : UCIP_SP_2021_58707_74994.jpg



Close up of marker with contact info

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.81	Rating **	M	Issue No.	78 (cont)
LM End	21.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362520 °	39.362520 °
				-121.867030 °	-121.867030 °
DWR ID	17732				

Photo 3 of 3 : UCIP_SP_2021_58707_81020.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 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.83	Rating **	M	Issue No.	79
LM End	21.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.362378 °	39.362378 °
				-121.867350 °	-121.867350 °
DWR ID	16394				

Comment Code

Inspector Comment

FS_ID:58575
DS_ID:16394
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined and a new flap gate has been installed on the WS. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 WS flap gate showing signs of rusting and deterioration but still appears to be able to function properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (A. Freitag - DWR Sutter Yard)11/17/2016 WS flap gate is really rusted and deteriorated but it appears to still function properly. (A. Freitag - DWR Sutter Yard)04/26/2016 WS flap gate is really rusted and deteriorated. May need to be replaced. The rest of the crossing appeared in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing is in good condition. No noticeable issues to be reported. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 WS and LS slopes are in good condition. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0251 for no outlet visible on WS. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). Rusty gate located on the WS (gate stuck). [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.08). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 22.08), As-built DWG No. 50-4-3511, Sheet No. 3511/2.2 and 31.2, STA 67+70E, page 2, 31 of 31 electronic file, listed as 24-inch CMP section through the levee]
FS Date: 8/29/2019 7:40:00 AM

Photo 1 of 3 : UCIP_SP_2021_58575_67462.jpg



Overview of crossing looking upstream at the left bank of Cherokee Canal.

*** Location**

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

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.83	Rating **	M	Issue No.	79 (cont)
LM End	21.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.362378 °	39.362378 °
				-121.867350 °	-121.867350 °
DWR ID	16394				

Photo 2 of 3 : UCIP_SP_2021_58575_67460.jpg



View of WS headwall.

LM Start	21.83	Rating **	M	Issue No.	79 (cont)
LM End	21.83	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58575_67461.jpg



Flap gate located on WS.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.86	Rating **	M	Issue No.	80
LM End	21.86	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.362150 °	39.362150 °	
			-121.867770 °	-121.867770 °	
DWR ID	16386				

Comment Code

Inspector Comment

FS_ID:58568
DS_ID:16386
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this pipe. No maintenance records are available for this crossing. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing and markers are in good condition. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Markers visible for crossing. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: High pressure gas line through the levee. Depth unknown. [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.11). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, listed in As-built DWG No. 50-4-3511 only and not manual, Sheet No. 3511/31.2, STA 66+00E, page 31 of 31 electronic file, listed as 12-inch underground gas main section through the levee]
FS Date: 8/29/2019 7:41:00 AM

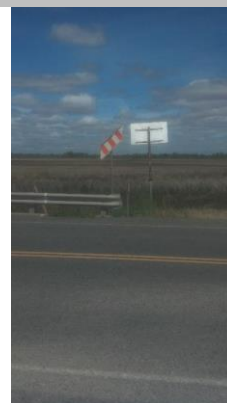
LM Start	21.86	Rating **	M	Issue No.	80 (cont)
LM End	21.86	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2021_58568_67463.jpg



Overview of gas line marker located at the upstream face of the highway bridge.

Photo 2 of 3 : UCIP_SP_2021_58568_67465.jpg



Gas line marker at the upstream face of highway bridge.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.86	Rating **	M	Issue No.	80 (cont)
LM End	21.86	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362150 °	39.362150 °
				-121.867770 °	-121.867770 °
DWR ID	16386				

Photo 3 of 3 : UCIP_SP_2021_58568_67464.jpg



View of second gas line marker looking East at highway (LS view).

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.86	Rating **	M	Issue No.	81
LM End	21.86	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.362103 °	39.362103 °	
			-121.867820 °	-121.867820 °	
DWR ID	16374				

Comment Code

Inspector Comment

FS_ID:58569
DS_ID:16374
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Also modification have been made without prior notification to the CVFPB. Multiple splice boxes can be found along the LS toe. Need to review CVFPB enforcement case to determine if issue has been resolved. Need updated photos for this crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Splice box still present at LS toe. (A. Freitag - DWR Sutter Yard)11/17/2016 Splice box still present at LS toe. (A. Freitag - DWR Sutter Yard)04/26/2016 Communication Splice box was still present. Not sure what was done to ever resolve the encroachment issue. (A. Freitag - DWR Sutter Yard)06/30/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)04/24/2012 Unauthorized Encroachment. This crossing is listed multiple times in the USACE Periodic Inspection report as USACE_CESPK_M13E_2011_p_0307, 0315, 0317, 0318 for slope failure on LS hinge. DWR-Flood Maintenance Office records shows that CVFPB has requested AT&T to remove conduit in June 2, 2009 letter. LMA working with CVFPB to resolve. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: Underground telephone cable through the levee. Depth unknown. (AT&T) START latitude 39.36210336, longitude -121.8678207 END latitude 39.35458541, longitude -121.8823409. Line extends from Gridley Colusa Highway to the south end of project levee along landside (LS) shoulder and levee crown hinge point. Levee sloughs along cable trench after heavy rains. [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.11). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, listed in As-built DWG No. 50-4-3511 only and not manual, Sheet No. 3511/31.2, STA 66+00E, page 31 of 31 electronic file, listed as underground telephone and electric line through the levee]
FS Date: 8/29/2019 7:42:00 AM

Photo 1 of 1 : UCIP_SP_2021_58569_67480.jpg



View of utility line located 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	21.87	Rating **	U	Issue No.	59
LM End	22.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.362022 °	39.360294 °
				-121.867949 °	-121.871339 °
DWR ID	DWR_MA0013_02_s _ 2016_59				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_59_20210224_00009.jpg



View of the ditch along the landside toe. Spring 2020.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

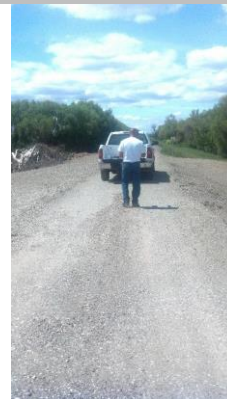
LM Start	22.14	Rating **	M	Issue No.	82
LM End	22.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359910 °	39.359910 °
				-121.872130 °	-121.872130 °
DWR ID	16842				

Comment Code

Inspector Comment

FS_ID:58570
DS_ID:16842
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Recommend CMP riser covers for this crossing for safety purposes. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing is in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 11.7 feet below the crown. Riser unit is located on the waterside (WS). Concrete pipe visible on the landside (LS) outlet. [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.40), listed as 42-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 22.40), listed as 36-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/21.2, STA 51+39E, page 21 of 31 electronic file, listed as combination of existing 36-inch CMP and new 42-inch CMP section through the levee (irrigation and drainage structures); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:42:00 AM

Photo 1 of 3 : UCIP_SP_2021_58570_67481.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	82 (cont)	
LM End	22.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.359910 °	39.359910 °	
				-121.872130 °	-121.872130 °	
DWR ID	16842					

Photo 2 of 3 : UCIP_SP_2021_58570_67482.jpg



View of corrugated metal risers located on WS slope.

LM Start	22.14	Rating **	M	Issue No.	82 (cont)
LM End	22.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58570_67485.jpg



WS view of 18 inch line through corrugated metal riser.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

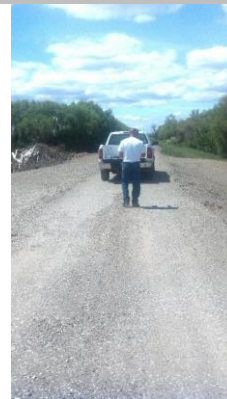
LM Start	22.14	Rating **	M	Issue No.	83
LM End	22.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359870 °	39.359870 °
				-121.872140 °	-121.872140 °
DWR ID	16389				

Comment Code

Inspector Comment

FS_ID:58571
DS_ID:16389
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Recommend CMP riser covers for this crossing for safety purposes. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)11/17/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Crossing appears to be in good condition. (A. Freitag - DWR Sutter Yard)06/30/2015 Crossing is in good condition. No noticeable issues to report. (A. Freitag - DWR Sutter Yard)05/28/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/04/2013 Top of screw gate has been replaced and gate is now fully functional. (A. Freitag - DWR Sutter Yard)07/08/2013 Top of slide gate frame and wheel missing making gate inoperable. Needs to be replaced before flood season. (A. Freitag - DWR Sutter Yard)
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the WS end. A concrete headwall trash gate is located on the WS inlet. [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.40), listed as 42-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 22.40), listed as 36-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/21.2, STA 51+32E, page 21 of 31 electronic file, listed as combination of existing 36-inch CMP and new 42-inch CMP section through the levee (irrigation and drainage structures); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:43:00 AM

Photo 1 of 3 : UCIP_SP_2021_58571_67490.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	83 (cont)
LM End	22.14	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.359870 °	39.359870 °	
			-121.872140 °	-121.872140 °	
DWR ID	16389				

Photo 2 of 3 : UCIP_SP_2021_58571_67491.jpg



View of corrugated metal risers located on WS.

LM Start	22.14	Rating **	M	Issue No.	83 (cont)
LM End	22.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2021_58571_67492.jpg



WS view of buried line through levee berm looking at berm edge from levee 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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	22.15	Rating **	M	Issue No.	84 (cont)
LM End	22.15	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.359827 °	39.359827 °	
			-121.872300 °	-121.872300 °	
DWR ID	16391				

Photo 2 of 3 : UCIP_SP_2021_58572_67496.jpg



View of WS slope looking from WS headwall to levee crown.

LM Start	22.15	Rating **	M	Issue No.	84 (cont)
LM End	22.15	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2021_58572_67497.jpg



View of flap gate on WS.

LM Start	22.32	Rating **	M	Issue No.	63
LM End	22.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358453 °	39.358453 °
				-121.875030 °	-121.875030 °
DWR ID	DWR_MA0013_02_s_2019_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the fallen trees along the landside slope and toe.					

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 - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	22.33	Rating **	A/W	Issue No.	62
LM End	22.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.358419 °	39.358419 °
				-121.875088 °	-121.875088 °
DWR ID	DWR_MA0013_02_s_2016_62				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_62_20210224_00012.jpg



View of the slope instability along the landside slope. Fall 2020.

LM Start	22.50	Rating **	U	Issue No.	58
LM End	22.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.357085 °	39.357033 °
				-121.877812 °	-121.877901 °
DWR ID	DWR_MA0013_02_f _ 2019_58				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_58_20210224_00008.jpg



View of erosion on the landside slope. Fall 2019.

LM Start	22.54	Rating **	M	Issue No.	60
LM End	22.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.356780 °	39.356780 °
				-121.878422 °	-121.878422 °
DWR ID	DWR_MA0013_02_f _ 2019_60				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_60_20210224_00010.jpg



View of sloughing on the landside slope. Fall 2019.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2021

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	03/24/2021 03/24/2021	Makar Sokol

LM Start	22.58	Rating **	U	Issue No.	61
LM End	22.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.356476 °	39.356476 °
				-121.879089 °	-121.879089 °
DWR ID	DWR_MA0013_02_s_2019_61				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2021_MA0013_301_61_20210224_00011.jpg



View of the erosion at the landside shoulder and slope. Spring 2019.

* 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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