

**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.

†	<p><u>SPRING INSPECTIONS:</u> 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.</p> <p><u>FALL INSPECTIONS:</u> 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.</p>
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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	4/26/2023 - 4/26/2023			
DWR Inspector	Makar Sokol			
Accompanied By	Shawn Freitag DWR Sutter 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	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					
OM : O&M Manuals					
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				o	o
					o	o
DWR ID	DWR_MA0013_01_s_2013_8					
Comment Code						
ES : Emergency Supplies & Equipment						
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					
FP : Flood Preparedness & Training					
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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	0.02	Rating **	M	Issue No.	74
LM End	0.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.596568 °	39.596568 °
				-121.702787 °	-121.702787 °
DWR ID	DWR_MA0013_01_f _ 2022_74				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_300_74_20230417_00007.jpg



View of a pile of prunings at the landside toe. Fall 2022.

LM Start	0.05	Rating **	M	Issue No.	54
LM End	3.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.596236 °	39.546977 °
				-121.702853 °	-121.707620 °
DWR ID	DWR_MA0013_01_s_2023_54				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.13	Rating **	M	Issue No.	55
LM End	3.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.595027°	39.546980°
				-121.703296°	-121.707620°
DWR ID	DWR_MA0013_01_s_2023_55				
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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	0.19	Rating **	C	Issue No.	75
LM End	0.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.594261°	39.594261°
				-121.703527°	-121.703527°
DWR ID	DWR_MA0013_01_f_2022_75				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	0.44	Rating **	M	Issue No.	53
LM End	0.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.591277°	39.591277°
				-121.702179°	-121.702179°
DWR ID	DWR_MA0013_01_s_2023_53				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	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_2023_MA0013_300_12_20230417_00004.jpg



View of the equipment along the landside toe. Fall 2021.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	2	
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						
DS_ID:16343 FS_ID:58576 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined corrugated metal 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	2 (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_2023_58576_66688.jpg



View of WS headwall and flap gate.

LM Start	1.13	Rating **	M	Issue No.	2 (cont)
LM End	1.13	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.59	Rating **	M	Issue No.	4
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

DS_ID:16831
FS_ID:58462
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit
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. DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4. Recommend next video inspection in 5 years. (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

Photo 1 of 3 : UCIP_SP_2023_58462_77935.jpg



Crown view: no sign of levee integrity issues.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

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): 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.	4 (cont)
LM End	1.59	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2023_58462_77936.jpg



WS view: riser appears not in use.

LM Start	1.59	Rating **	M	Issue No.	4 (cont)
LM End	1.59	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58462_77937.jpg



LS view: outlet appears in good condition.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.66	Rating **	M	Issue No.	5
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					
DS_ID:16345 FS_ID:58463 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 4b, Safety Issue 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_2023_58463_66700.jpg



Overview of levee 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.66	Rating **	M	Issue No.	5 (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_2023_58463_66704.jpg



WS view looking upstream.

LM Start	1.66	Rating **	M	Issue No.	5 (cont)
LM End	1.66	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.31	Rating **	M	Issue No.	6	
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						
DS_ID:16346 FS_ID:58464 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 4b, Safety Issue 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. DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4. Recommend next video inspection in 5 years. (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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.31	Rating **	M	Issue No.	6 (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_2023_58464_66709.jpg



Corrugated riser located on WS slope.

LM Start	2.31	Rating **	M	Issue No.	6 (cont)
LM End	2.31	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.70	Rating **	M	Issue No.	9	
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						
DS_ID:16347 FS_ID:58465 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.70	Rating **	M	Issue No.	9 (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_2023_58465_66714.jpg



Flap gate at WS.

LM Start	2.70	Rating **	M	Issue No.	9 (cont)
LM End	2.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	11
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

DS_ID:17372
FS_ID:58466
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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_2023_58466_66718.jpg



Overview of levee crown looking downstream at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	11 (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_2023_58466_66716.jpg



WS levee slope.

LM Start	3.05	Rating **	M	Issue No.	11 (cont)
LM End	3.05	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.24	Rating **	M	Issue No.	13
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					
DS_ID:16349 FS_ID:58577 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined corrugated metal 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.24	Rating **	M	Issue No.	13 (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_2023_58577_66724.jpg



Flap gate on WS.

LM Start	3.24	Rating **	M	Issue No.	13 (cont)
LM End	3.24	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	17	
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						
DS_ID:16350 FS_ID:58578 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined corrugated metal 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	17 (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_2023_58578_66730.jpg



View of WS flap gate.

LM Start	3.27	Rating **	M	Issue No.	17 (cont)
LM End	3.27	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.72	Rating **	M	Issue No.	19
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

DS_ID:16351
FS_ID:58469
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined 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_2023_58469_66736.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.72	Rating **	M	Issue No.	19 (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_2023_58469_66738.jpg



WS slope covered by dense vegetation.

LM Start	3.72	Rating **	M	Issue No.	19 (cont)
LM End	3.72	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.74	Rating **	M	Issue No.	20
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

DS_ID:16365
FS_ID:58470
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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_2023_58470_66743.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.74	Rating **	M	Issue No.	20 (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_2023_58470_66741.jpg



WS flap gate blocked by debris.

LM Start	3.74	Rating **	M	Issue No.	20 (cont)
LM End	3.74	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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_2022_18				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_300_18_20230427_00129.jpg



View of the trees along the landside slope. Spring 2023.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.33	Rating **	M	Issue No.	21	
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						
DS_ID:16353 FS_ID:57531 EP_NO: 6084 Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue 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						

Photo 1 of 3 : UCIP_SP_2023_57531_66747.jpg



Visible marker for underground cable on LS.

LM Start	4.33	Rating **	M	Issue No.	21 (cont)
LM End	4.33	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.33	Rating **	M	Issue No.	21 (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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.35	Rating **	M	Issue No.	22
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					
DS_ID:16341 FS_ID:58471 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58471_66752.jpg



Overview of levee crown at crossing looking upstream.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.35	Rating **	M	Issue No.	22 (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_2023_58471_66753.jpg



View of WS slope and toe.

LM Start	4.35	Rating **	M	Issue No.	22 (cont)
LM End	4.35	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58471_66750.jpg



View of WS.

LM Start	4.39	Rating **	M	Issue No.	56
LM End	18.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.536957°	39.373547°
				-121.707678°	-121.850258°
DWR ID	DWR_MA0013_01_s_2023_56				
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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.43	Rating **	M	Issue No.	57
LM End	16.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.536270°	39.394643°
				-121.707702°	-121.817596°
DWR ID	DWR_MA0013_01_s _ 2023_57				
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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	23
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					
DS_ID:16355 FS_ID:58472 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	23 (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_2023_58472_66758.jpg



Burrow activity on WS slope.

LM Start	4.85	Rating **	M	Issue No.	23 (cont)
LM End	4.85	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.33	Rating **	M	Issue No.	24	
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						
DS_ID:16356 FS_ID:58473 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.33	Rating **	M	Issue No.	24 (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_2023_58473_66760.jpg



WS Flap Gate

LM Start	5.33	Rating **	M	Issue No.	24 (cont)
LM End	5.33	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.38	Rating **	M	Issue No.	25	
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						
DS_ID:16357 FS_ID:58579 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined corrugated metal 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_2023_58579_66764.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.38	Rating **	M	Issue No.	25 (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_2023_58579_66765.jpg



View of WS slope and channel.

LM Start	5.38	Rating **	M	Issue No.	25 (cont)
LM End	5.38	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	26
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					
DS_ID:16359 FS_ID:58478 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58478_66793.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	26 (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_2023_58478_66794.jpg



View of WS slope and toe.

LM Start	5.63	Rating **	M	Issue No.	26 (cont)
LM End	5.63	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.87	Rating **	M	Issue No.	27	
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						
DS_ID:16360 FS_ID:58479 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58479_66800.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.87	Rating **	M	Issue No.	27 (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_2023_58479_66801.jpg



View of WS slope and toe.

LM Start	5.87	Rating **	M	Issue No.	27 (cont)
LM End	5.87	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58479_66799.jpg



Flap gate WS

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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	28	
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						
DS_ID:16361 FS_ID:58480 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	28 (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_2023_58480_66806.jpg



View of WS slope and toe.

LM Start	6.23	Rating **	M	Issue No.	28 (cont)
LM End	6.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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_2023_MA0013_300_3_20230417_00001.jpg



View of the agricultural ditch along the toe. Fall 2021.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	6.45	Rating **	U	Issue No.	29
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

DS_ID:16362
FS_ID:77840
EP_NO: 5200B
Repair Type: Urgent
EVAL Issue: 1, Pipe Integrity
Crossing Status: Found
UCIP Comments: 12/13/2022 Record updated from Non-Urgent to Urgent. DMP internal video inspection has found pipe integrity issues. LOF of crossing is between 5 and 6. Crossing will be monitored until funding becomes available to address the issues. (O.Yakimov - DWR UCIP)
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- A.Freitag)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 8:32:49 PM

Photo 1 of 3 : UCIP_SP_2023_77840_66814.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	6.45	Rating **	U	Issue No.	29 (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_2023_77840_66813.jpg



View of WS slope and toe.

LM Start	6.45	Rating **	U	Issue No.	29 (cont)
LM End	6.45	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_77840_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	6.99	Rating **	M	Issue No.	30
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					
DS_ID:16329 FS_ID:58483 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	6.99	Rating **	M	Issue No.	30 (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_2023_58483_66832.jpg



View of WS slope and toe.

LM Start	6.99	Rating **	M	Issue No.	30 (cont)
LM End	6.99	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	31
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

DS_ID:16354
FS_ID:58484
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined 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_2023_58484_66844.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	31 (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_2023_58484_66845.jpg



View of WS slope and toe.

LM Start	7.22	Rating **	M	Issue No.	31 (cont)
LM End	7.22	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	7.46	Rating **	M	Issue No.	32	
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						
DS_ID:16352 FS_ID:58485 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	7.46	Rating **	M	Issue No.	32 (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_2023_58485_66851.jpg



WS view of slope and channel.

LM Start	7.46	Rating **	M	Issue No.	32 (cont)
LM End	7.46	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	33
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					
DS_ID:16320 FS_ID:58487 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 4b, Safety Issue 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. DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4. Recommend next video inspection in 5 years. 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	33 (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_2023_58487_66865.jpg



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

LM Start	7.64	Rating **	M	Issue No.	33 (cont)
LM End	7.64	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	34	
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						
DS_ID:16321 FS_ID:58488 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58488_66872.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	N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain
N/A: Not Applicable		Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	34 (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_2023_58488_66873.jpg



View of WS slope and toe.

LM Start	8.00	Rating **	M	Issue No.	34 (cont)
LM End	8.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	35
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

DS_ID:16322
FS_ID:58489
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue: 11, Maintenance Compliance Issue
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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	35 (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_2023_58489_66874.jpg



View of WS slope and toe.

LM Start	8.27	Rating **	M	Issue No.	35 (cont)
LM End	8.27	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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_2023_MA0013_300_49_20230417_00006.jpg



View of the erosion site along the landside toe. 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.82	Rating **	U	Issue No.	36
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				
Comment Code					
Inspector Comment					
DS_ID:16323 FS_ID:58490 EP_NO: N/A Repair Type: Urgent EVAL Issue: 2b, Levee Integrity Crossing Status: Found UCIP Comments: 08/27/2019 Same as last inspection; crossing remains Urgent due to LS toe erosion. No permit has been identified authorizing irrigation structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 Same as last inspection; crossing remains Urgent because LS erosion is still present and poses a levee integrity risk (D. Sanoski - DWR UCIP).06/14/2017 LS underwater but levee erosion is still present- needs to be repaired. 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 erosion is still a major problem here. (A. Freitag - DWR Sutter Yard)04/28/2016 Erosion still present at the LS headwall. (A. Freitag - DWR Sutter Yard)07/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. (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 Concrete headwall is cracked, erosion behind headwall is also present. LS headwall needs to be repaired/replaced. Remove wooden debris from levee shoulder. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: [Richvale Irrigation Canal Siphon] 60-inch by 84-inch (5-foot by 7 foot) concrete irrigation conduit through the levee, 18.4 feet below the crown. Distribution box and walkway are located on the waterside (WS). Concrete headwall on the landside (LS). 28-foot reinforced concrete protective slab on top of the conduit in the center of the levee. [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.95). USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 8.95), listed as 5-foot by 7-foot concrete conduit, As-built DWG No. 50-4-3608, Sheet No. 3608/20, STA 651+66E, page 21 of 28 electronic file, listed as 6-foot diameter concrete pipe (siphon)] FS Date: 8/27/2019 2:09:00 PM					

Photo 1 of 3 : UCIP_SP_2023_58490_77939.jpg



Crown view: recently repaved 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.82	Rating **	U	Issue No.	36 (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_2023_58490_77940.jpg



LS view: erosion still present around headwall.

LM Start	8.82	Rating **	U	Issue No.	36 (cont)
LM End	8.82	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_58490_77941.jpg



WS view: catwalk and gate; no pipe daylight on WS.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.84	Rating **	M	Issue No.	37
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

DS_ID:16325
FS_ID:58493
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Spoke to Richvalle 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. DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4. Recommend next video inspection in 5 years. (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_2023_58493_66895.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.84	Rating **	M	Issue No.	37 (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_2023_58493_66897.jpg



View of WS slope with 2 slide gates.

LM Start	8.84	Rating **	M	Issue No.	37 (cont)
LM End	8.84	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.89	Rating **	M	Issue No.	38
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

DS_ID:16828
FS_ID:58494
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue: 6, Levee Damage or Threat for Levee Damage
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_2023_58494_66908.jpg



Overview picture 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.89	Rating **	M	Issue No.	38 (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_2023_58494_66907.jpg



Headwall at LS distribution box

LM Start	8.89	Rating **	M	Issue No.	38 (cont)
LM End	8.89	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.90	Rating **	M	Issue No.	39
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					
DS_ID:16328 FS_ID:58516 EP_NO: 1234A Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue 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					

Photo 1 of 3 : UCIP_SP_2023_58516_66909.jpg



Underground telephone cable marker located on WS.

LM Start	8.90	Rating **	M	Issue No.	39 (cont)
LM End	8.90	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.90	Rating **	M	Issue No.	39 (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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	40	
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						
DS_ID:16317 FS_ID:58495 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 Insect 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	40 (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_2023_58495_66911.jpg



View of WS slope and toe.

LM Start	9.70	Rating **	M	Issue No.	40 (cont)
LM End	9.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	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_2023_MA0013_300_10_20230417_00003.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 and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	11.58	Rating **	M	Issue No.	76
LM End	11.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.442868°	39.442868°
				-121.759906°	-121.759906°
DWR ID	DWR_MA0013_01_f_2022_76				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_300_76_20230417_00008.jpg



View of rodent activity along the landside slope. Fall 2022.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	12.11	Rating **	M	Issue No.	77
LM End	12.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.436130°	39.436130°
				-121.764647°	-121.764647°
DWR ID	DWR_MA0013_01_f _ 2022_77				
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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	12.74	Rating **	U	Issue No.	41
LM End	12.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428070°	39.428070°
				-121.770080°	-121.770080°
DWR ID	16336				

Comment Code

Inspector Comment

DS_ID:16336
FS_ID:58501
EP_NO: N/A
Repair Type: Urgent
EVAL Issue: 1, Pipe Integrity
Crossing Status: Found
UCIP Comments: 08/27/2019 Record updated from Non-Urgent to Urgent. DMP internal video inspection has found pipe integrity issues. LOF of crossing is between 5 and 6. Crossing will be monitored until funding becomes available to address the issues. 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	12.74	Rating **	U	Issue No.	41 (cont)
LM End	12.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428070°	39.428070°
				-121.770080°	-121.770080°
DWR ID	16336				

Photo 2 of 3 : UCIP_SP_2023_58501_66959.jpg



View of WS slope.

LM Start	12.74	Rating **	U	Issue No.	41 (cont)
LM End	12.74	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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	+ Issue Type 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	13.76	Rating **	M	Issue No.	42
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

DS_ID:16338
FS_ID:58515
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 overgrown 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 CIPP-lined 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_2023_58515_77942.jpg



WS view: flapgate appears fixed.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	13.76	Rating **	M	Issue No.	42 (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_2023_58515_77945.jpg



WS view: levee slope looks in good condition.

LM Start	13.76	Rating **	M	Issue No.	42 (cont)
LM End	13.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58515_77944.jpg



LS view: vegetation and debris still present; levee looks in good condition.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	14.58	Rating **	M	Issue No.	43
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

DS_ID:16368
FS_ID:58505
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
Crossing Status: Found
UCIP Comments: 02/11/2020 Record updated from Urgent to Non-Urgent. Pipe has been CIPP-lined. Levee integrity issue recorded previously needs to be confirmed during next field inspection and updated if not present. (O.Yakimov - DWR UCIP)
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 CIPP-lined corrugated metal drainage

Photo 1 of 3 : UCIP_SP_2023_58505_77946.jpg



LS view: levee slope and headwall with screw gate.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

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. 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 **	M	Issue No.	43 (cont)
LM End	14.58	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2023_58505_77947.jpg



WS view: levee slope and WS headwall.

LM Start	14.58	Rating **	M	Issue No.	43 (cont)
LM End	14.58	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58505_77948.jpg



WS view: long crack above the headwall could be of concern.

* Location LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	** Rating A: Acceptable M: Minimally Acceptable U: Unacceptable	N: Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	14.91	Rating **	M	Issue No.	44
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

DS_ID:16367
FS_ID:58506
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined 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_2023_58506_66981.jpg



WS headwall and flapgate

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	14.91	Rating **	M	Issue No.	44 (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_2023_58506_66980.jpg



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

LM Start	14.91	Rating **	M	Issue No.	44 (cont)
LM End	14.91	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58506_66982.jpg



WS slope 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	45
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

DS_ID:16373
FS_ID:57621
EP_NO: 11805B
Repair Type: Non-Urgent
EVAL Issue: 6, Levee Damage or Threat for Levee Damage
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_2023_57621_66993.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	45 (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_2023_57621_66995.jpg



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

LM Start	15.77	Rating **	M	Issue No.	45 (cont)
LM End	15.77	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_57621_66996.jpg



LS view of shoulder and 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	47	
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						
DS_ID:16372 FS_ID:58508 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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_2023_58508_74500.jpg



WS view of structure.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	47 (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_2023_58508_74503.jpg



View of crossing and panels attached to concrete walls.

LM Start	16.19	Rating **	M	Issue No.	47 (cont)
LM End	16.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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					

Photo 1 of 1 : SP_2023_MA0013_300_7_20230417_00002.jpg



View of the ditch along the landside toe. Fall 2021.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	48
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					
DS_ID:16370 FS_ID:58510 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue 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_2023_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 M: Minimally Acceptable U: Unacceptable	N: Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	48 (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_2023_58510_67010.jpg



View of WS headwall.

LM Start	17.19	Rating **	M	Issue No.	48 (cont)
LM End	17.19	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	50	
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						
DS_ID:17133 FS_ID:58511 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	50 (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_2023_58511_67002.jpg



View of WS headwall.

LM Start	17.19	Rating **	M	Issue No.	50 (cont)
LM End	17.19	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	51
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

DS_ID:16369
FS_ID:58512
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined corrugated metal 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_2023_58512_67017.jpg



View of WS slope and toe.

* Location	** Rating	+ Issue Type
LS: Land Side WS: Water Side CR: Crown	A: Acceptable M: Minimally Acceptable U: Unacceptable	Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement
N/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	51 (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_2023_58512_67019.jpg



View of WS headwall and flap gate.

LM Start	17.23	Rating **	M	Issue No.	51 (cont)
LM End	17.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.24	Rating **	M	Issue No.	52
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

DS_ID:16366
FS_ID:57627
EP_NO: 10918
Repair Type: Non-Urgent
EVAL Issue: 11, Maintenance Compliance Issue
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 god 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.	52 (cont)
LM End	17.24	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2023_57627_67024.jpg



Underground telephone line marker.

Photo 2 of 3 : UCIP_SP_2023_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		+ 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/26/2023 04/26/2023	Makar Sokol

LM Start	17.24	Rating **	M	Issue No.	52 (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_2023_57627_67023.jpg



Underground telephone line crossing at bridge

LM Start	17.26	Rating **	M	Issue No.	58
LM End	18.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.384831 °	39.373662 °
				-121.832573 °	-121.850055 °
DWR ID	DWR_MA0013_01_s_2023_58				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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		** 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
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	4/26/2023 - 4/26/2023			
DWR Inspector	Makar Sokol			
Accompanied By	Shawn Freitag DWR Sutter 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	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

DS_ID:16397
FS_ID:58518
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined corrugated metal 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	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				

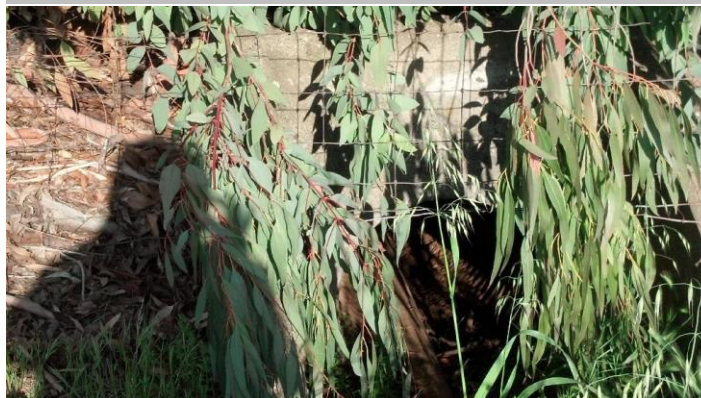
Photo 2 of 3 : UCIP_SP_2023_58518_45642.jpg



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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	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

LM Start	0.53	Rating **	M	Issue No.	47
LM End	22.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.567162°	39.360373°
				-121.702450°	-121.871224°
DWR ID	DWR_MA0013_02_s_2023_47				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.57	Rating **	M	Issue No.	49
LM End	19.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.566594°	39.378049°
				-121.702439°	-121.838817°
DWR ID	DWR_MA0013_02_s_2023_49				
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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

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

Comment Code

Inspector Comment

DS_ID:16398
FS_ID:58519
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit
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 internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4. Recommend next video inspection in 5 years. (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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

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

Photo 2 of 3 : UCIP_SP_2023_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 +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_58519_67045.jpg



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

LM Start	0.77	Rating **	M	Issue No.	91
LM End	0.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.563684°	39.562508°
				-121.702413°	-121.702535°
DWR ID	DWR_MA0013_02_f_2021_91				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_301_91_20230417_00013.jpg



View of the equipment along the landside toe. Fall 2021.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.15	Rating **	U	Issue No.	92
LM End	1.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.558741°	39.558741°
				-121.704800°	-121.704800°
DWR ID	DWR_MA0013_02_f_2021_92				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_301_92_20230417_00014.jpg



View of the pile of tree limbs along the landside toe. Fall 2021.

LM Start	1.26	Rating **	U	Issue No.	93
LM End	1.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.557153°	39.556600°
				-121.704880°	-121.704936°
DWR ID	DWR_MA0013_02_f_2021_93				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_301_93_20230417_00015.jpg



View of the pile of tree limbs along landside toe. Fall 2021.

LM Start	1.37	Rating **	M	Issue No.	94
LM End	1.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.555504°	39.555504°
				-121.705001°	-121.705001°
DWR ID	DWR_MA0013_02_f_2021_94				
Comment Code					
FW : Firewood					
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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.51	Rating **	U	Issue No.	95
LM End	1.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.553457°	39.553457°
				-121.704923°	-121.704923°
DWR ID	DWR_MA0013_02_f_2021_95				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_301_95_20230417_00016.jpg



View of a large pile of tree limbs along the landside toe. Fall 2022.

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_2023_MA0013_301_56_20230417_00007.jpg



View of the agricultural ditch along the landside toe. Fall 2021.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.70	Rating **	M	Issue No.	4
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

DS_ID:16399
FS_ID:58573
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined corrugated metal 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	1.70	Rating **	M	Issue No.	4 (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_2023_58573_67058.jpg



View of flap gate on WS.

LM Start	1.70	Rating **	M	Issue No.	4 (cont)
LM End	1.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	5	
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						
DS_ID:16400 FS_ID:58522 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	5 (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_2023_58522_67068.jpg



View of WS slope.

LM Start	2.53	Rating **	M	Issue No.	5 (cont)
LM End	2.53	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	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			39.539179°	39.539179°	
				-121.706060°	-121.706060°	
DWR ID	17169					
Comment Code						
Inspector Comment						
DS_ID:17169 FS_ID:58523 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58523_67075.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	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			39.539179°	39.539179°	
				-121.706060°	-121.706060°	
DWR ID	17169					

Photo 2 of 3 : UCIP_SP_2023_58523_67074.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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.62	Rating **	M	Issue No.	7
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

DS_ID:16402
FS_ID:58524
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined 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_2023_58524_67077.jpg



Overview looking south from 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.62	Rating **	M	Issue No.	7 (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_2023_58524_67076.jpg



Headwall and flap gate located on WS.

LM Start	2.62	Rating **	M	Issue No.	7 (cont)
LM End	2.62	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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	+ Issue Type 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.63	Rating **	M	Issue No.	8	
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						
DS_ID:16403 FS_ID:58525 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.63	Rating **	M	Issue No.	8 (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_2023_58525_67084.jpg



Headwall and flap gate located on WS

LM Start	2.63	Rating **	M	Issue No.	8 (cont)
LM End	2.63	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	9	
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						
DS_ID:16415 FS_ID:58526 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58526_67090.jpg



Overview looking south from 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	9 (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_2023_58526_67091.jpg



Headwall and flap gate located on WS.

LM Start	2.65	Rating **	M	Issue No.	9 (cont)
LM End	2.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.59	Rating **	M	Issue No.	10
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

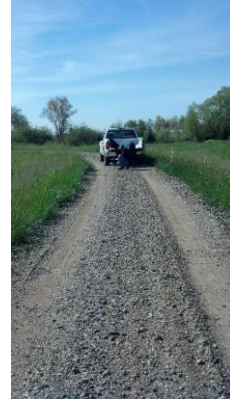
Inspector Comment

DS_ID:16405
FS_ID:58527
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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_2023_58527_67094.jpg



Overview looking south from 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.59	Rating **	M	Issue No.	10 (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_2023_58527_67095.jpg



Flap gate submerged in water on WS of levee

LM Start	3.59	Rating **	M	Issue No.	10 (cont)
LM End	3.59	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.65	Rating **	M	Issue No.	11
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

DS_ID:16848
FS_ID:58528
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.65	Rating **	M	Issue No.	11 (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_2023_58528_67103.jpg



Headwall and flap gate located on WS.

LM Start	3.65	Rating **	M	Issue No.	11 (cont)
LM End	3.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.83	Rating **	M	Issue No.	14
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

DS_ID:16847
FS_ID:58529
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined 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_2023_58529_67107.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	3.83	Rating **	M	Issue No.	14 (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_2023_58529_67108.jpg



Headwall and flap gate located on WS toe.

LM Start	3.83	Rating **	M	Issue No.	14 (cont)
LM End	3.83	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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_2023_MA0013_301_911_20230417_00017.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.17	Rating **	M	Issue No.	15
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

DS_ID:16846
FS_ID:58530
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue: 6, Levee Damage or Threat for Levee Damage
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 CIPP-lined 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_2023_58530_67115.jpg



Overview looking east on right bank of Cottonwood

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.17	Rating **	M	Issue No.	15 (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_2023_58530_67116.jpg



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

LM Start	4.17	Rating **	M	Issue No.	15 (cont)
LM End	4.17	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LMR Start	4.65	Rating **	M	Issue No.	16	
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						
DS_ID:16845 FS_ID:58532 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58532_67119.jpg



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

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	4.65	Rating **	M	Issue No.	16 (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_2023_58532_67122.jpg



Headwall and flap gate located on WS.

LM Start	4.65	Rating **	M	Issue No.	16 (cont)
LM End	4.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58532_67123.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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.01	Rating **	M	Issue No.	17	
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						
DS_ID:16395 FS_ID:58533 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58533_67131.jpg



Overview looking west on the left levee of Cottonwood

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.01	Rating **	M	Issue No.	17 (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_2023_58533_67129.jpg



Headwall and flap gate located on WS.

LM Start	5.01	Rating **	M	Issue No.	17 (cont)
LM End	5.01	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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	+ Issue Type 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.06	Rating **	M	Issue No.	22	
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						
DS_ID:16407 FS_ID:57645 EP_NO: 6084 Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue 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.	22 (cont)
LM End	5.06	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2023_57645_67136.jpg



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

Photo 2 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.06	Rating **	M	Issue No.	22 (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_2023_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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.09	Rating **	M	Issue No.	23
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					
DS_ID:16408 FS_ID:58574 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined corrugated metal 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_2023_58574_67138.jpg



Overview of levee crown at crossing looking west.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.09	Rating **	M	Issue No.	23 (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_2023_58574_67140.jpg



Headwall and flap gate located on WS.

LM Start	5.09	Rating **	M	Issue No.	23 (cont)
LM End	5.09	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58574_67141.jpg



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

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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.29	Rating **	M	Issue No.	24
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					
DS_ID:16409 FS_ID:58536 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58536_67146.jpg



Overview of 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.29	Rating **	M	Issue No.	24 (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_2023_58536_67149.jpg



View of WS headwall with dense vegetation in channel.

LM Start	5.29	Rating **	M	Issue No.	24 (cont)
LM End	5.29	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	25
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

DS_ID:16411
FS_ID:58538
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue: 11, Maintenance Compliance Issue
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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	25 (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_2023_58538_67157.jpg



Headwall and flap gate on WS.

LM Start	5.80	Rating **	M	Issue No.	25 (cont)
LM End	5.80	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	26
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					
DS_ID:16466 FS_ID:57650 EP_NO: 13170 Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	26 (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_2023_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.	26 (cont)
LM End	5.80	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_57650_67160.jpg



Headwall and screw gate on land side of levee

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_2023_MA0013_301_12_20230417_00001.jpg



View of the agricultural ditch along the toe.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	27
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					
DS_ID:16838 FS_ID:58548 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	27 (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_2023_58548_67285.jpg



View of crossing looking from channel towards WS levee.

LM Start	9.56	Rating **	M	Issue No.	27 (cont)
LM End	9.56	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	9.57	Rating **	M	Issue No.	28
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					
DS_ID:16839 FS_ID:58549 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	9.57	Rating **	M	Issue No.	28 (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_2023_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.	28 (cont)
LM End	9.57	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58549_67286.jpg



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

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_2023_MA0013_301_13_20230417_00002.jpg



View of the agricultural ditch along the toe. Fall 2021.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	10.46	Rating **	U	Issue No.	50
LM End	10.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.465893°	39.465492°
				-121.743091°	-121.743351°
DWR ID	DWR_MA0013_02_s_2023_50				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_301_50_20230427_00127.jpg



View of the slope stability/sloughing issue along the landside slope. LMA put a raincoat to protect from further saturation. Spring 2023.

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_2023_MA0013_301_18_20230417_00003.jpg



View of the agricultural ditch along the landside toe. Fall 2021.

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 and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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		+ 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 2023****Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

* Location LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	** Rating A: Acceptable M: Minimally Acceptable U: Unacceptable N: Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	12.88	Rating **	U	Issue No.	29
LM End	12.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.434779°	39.434779°
				-121.763940°	-121.763940°
DWR ID	16385				

Comment Code

Inspector Comment

DS_ID:16385
FS_ID:77841
EP_NO: N/A
Repair Type: Urgent
EVAL Issue: 1, Pipe Integrity
Crossing Status: Found
UCIP Comments: 12/14/2022 Record updated from Non-Urgent to Urgent. DMP internal video inspection has found pipe integrity issues. LOF of crossing is between 5 and 6. Crossing will be monitored until funding becomes available to address the issues. (O.Yakimov - DWR UCIP)
08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. 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

Photo 1 of 3 : UCIP_SP_2023_77841_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 N: Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

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 8:33:12 AM

LM Start	12.88	Rating **	U	Issue No.	29 (cont)
LM End	12.88	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2023_77841_67337.jpg



Stand pipe with screw gate WS

LM Start	12.88	Rating **	U	Issue No.	29 (cont)
LM End	12.88	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_77841_67335.jpg



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

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

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_2023_MA0013_301_19_20230417_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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	15.44	Rating **	M	Issue No.	30
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

DS_ID:16376
FS_ID:58552
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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. DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4. Recommend next video inspection in 5 years. (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_2023_58552_67341.jpg



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

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	15.44	Rating **	M	Issue No.	30 (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_2023_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.	30 (cont)
LM End	15.44	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	31
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

DS_ID:16382
FS_ID:58553
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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. DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4. Recommend next video inspection in 5 years. (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_2023_58553_67352.jpg



Overview of crossing looking downstream of the left bank of Cherokee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	31 (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_2023_58553_67351.jpg



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

LM Start	15.68	Rating **	M	Issue No.	31 (cont)
LM End	15.68	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	16.07	Rating **	M	Issue No.	32
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

DS_ID:16377
FS_ID:58554
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue: 4b, Safety Issue
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]

Photo 1 of 3 : UCIP_SP_2023_58554_67353.jpg



Overview of levee crown.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

FS Date: 8/29/2019 7:34:00 AM

LM Start	16.07	Rating **	M	Issue No.	32 (cont)
LM End	16.07	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2023_58554_67359.jpg



Appurtenances on WS.

LM Start	16.07	Rating **	M	Issue No.	32 (cont)
LM End	16.07	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	16.86	Rating **	M	Issue No.	33
LM End	16.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.406410°	39.406410°
				-121.794600°	-121.794600°
DWR ID	16841				
Comment Code					
Inspector Comment					
DS_ID:16841 FS_ID:58555 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

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_2023_MA0013_301_20_20230417_00005.jpg



View of the agricultural ditch along the landside toe. Fall 2022.

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 **	C	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					

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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	34
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

DS_ID:16379
FS_ID:58557
EP_NO: N/A
Repair Type: Non-Urgent
EVAL Issue:
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 CIPP-lined 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_2023_58557_67387.jpg



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

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	34 (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_2023_58557_67386.jpg



View of WS slope and berm.

LM Start	18.16	Rating **	M	Issue No.	34 (cont)
LM End	18.16	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58557_67390.jpg



View of flap gate located on WS.

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_2023_MA0013_301_21_20230417_00006.jpg



View of the agricultural ditch along the landside toe. Fall 2021.

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

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	19.37	Rating **	M	Issue No.	35
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

DS_ID:16381
FS_ID:57681
EP_NO: 10918
Repair Type: Non-Urgent
EVAL Issue: 11, Maintenance Compliance Issue
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.	35 (cont)
LM End	19.37	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2023_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_2023_57681_67394.jpg



Splice box information located on LS approximately 60 feet from levee crown.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	19.37	Rating **	M	Issue No.	35 (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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	36	
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						
DS_ID:16375 FS_ID:58558 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined 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_2023_58558_67401.jpg



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

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	36 (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_2023_58558_67400.jpg



Erosion behind WS headwall at the upstream edge of headwall.

LM Start	19.92	Rating **	M	Issue No.	36 (cont)
LM End	19.92	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58558_67402.jpg



Flap gate located on the WS.

LM Start	20.19	Rating **	M	Issue No.	48
LM End	21.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.375009°	39.364734°
				-121.841430°	-121.862631°
DWR ID	DWR_MA0013_02_s_2023_48				
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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	20.55	Rating **	M	Issue No.	81
LM End	20.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.372244°	39.372244°
				-121.847034°	-121.847034°
DWR ID	DWR_MA0013_02_f_2022_81				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					

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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	37
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

DS_ID:16383
FS_ID:58559
EP_NO: N/A
Repair Type: Urgent
EVAL Issue: 1, Pipe Integrity
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_2023_58559_77951.jpg



LS view: levee slope and headwall.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	37 (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_2023_58559_77952.jpg



LS view: corroded outlet pipes.

LM Start	20.76	Rating **	U	Issue No.	37 (cont)
LM End	20.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_58559_77954.jpg



WS view: massive erosion around 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	38
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

DS_ID:17014
FS_ID:58560
EP_NO: N/A
Repair Type: Urgent
EVAL Issue: 1, Pipe Integrity
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_2023_58560_77955.jpg



LS view: levee slope and headwall.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	38 (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				

Photo 2 of 3 : UCIP_SP_2023_58560_77956.jpg



LS view: corroded outlet pipes.

LM Start	20.76	Rating **	U	Issue No.	38 (cont)
LM End	20.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_58560_77957.jpg



WS view: massive erosion around 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	39
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

DS_ID:17185
FS_ID:58561
EP_NO: N/A
Repair Type: Urgent
EVAL Issue: 1, Pipe Integrity
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_2023_58561_77958.jpg



LS view: levee slope and headwall.

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	39 (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_2023_58561_77959.jpg



LS view: corroded outlet pipes.

LM Start	20.76	Rating **	U	Issue No.	39 (cont)
LM End	20.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_58561_77960.jpg



WS view: massive erosion around headwall.

LM Start	20.77	Rating **	C	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					

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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Sutter Maintenance Yard Maintenance Area 0013

Overview of crossing looking downstream.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

(irrigation structure); As-built DWG No. 50-4-3037 referenced not available]

FS Date: 8/29/2019 7:39:00 AM

LM Start	21.35	Rating **	M	Issue No.	40 (cont)
LM End	21.35	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2023_58562_67451.jpg



View of WS daylight. Hole present at pipe daylight.

LM Start	21.35	Rating **	M	Issue No.	40 (cont)
LM End	21.35	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	21.83	Rating **	M	Issue No.	41
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					
DS_ID:16394 FS_ID:58575 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 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 CIPP-lined corrugated metal 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). Rusted 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_2023_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 M: Minimally Acceptable U: Unacceptable	N: Not Inspected/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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	21.83	Rating **	M	Issue No.	41 (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_2023_58575_67460.jpg



View of WS headwall.

LM Start	21.83	Rating **	M	Issue No.	41 (cont)
LM End	21.83	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	21.86	Rating **	M	Issue No.	42
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					
DS_ID:16374 FS_ID:58569 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	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_2023_MA0013_301_59_20230417_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**

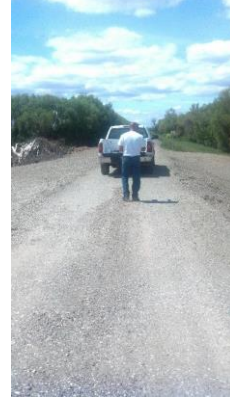
Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	43	
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						
DS_ID:16842 FS_ID:58570 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 4b, Safety Issue 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_2023_58570_67481.jpg



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

* 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	43 (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_2023_58570_67482.jpg



View of corrugated metal risers located on WS slope.

LM Start	22.14	Rating **	M	Issue No.	43 (cont)
LM End	22.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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**

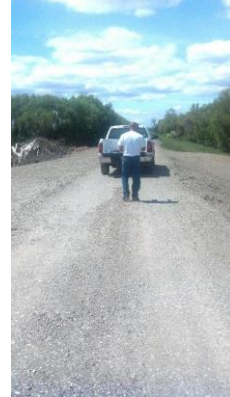
Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	44
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					
DS_ID:16389 FS_ID:58571 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 4b, Safety Issue 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_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	44 (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_2023_58571_67491.jpg



View of corrugated metal risers located on WS.

LM Start	22.14	Rating **	M	Issue No.	44 (cont)
LM End	22.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	22.15	Rating **	M	Issue No.	45	
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					
Comment Code						
Inspector Comment						
DS_ID:16391 FS_ID:58572 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue Crossing Status: Found UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. WS outlet is blocked by dense vegetation. LS inlet is still unknown. DWR Geophysical Survey was unable to confirm alignment. Need to contact property owner to determine if crossing is still being used and confirm pipe alignment. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Location of LS inlet still unknown. Need to trace with utility locator/GPR to find. 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 appears to be in good condition. (A. Freitag - DWR Sutter Yard)04/26/2016 Still unable to locate the LS headwall and end of pipe. Pipe is still being used. Pipe was draining to WS. (A. Freitag - DWR Sutter Yard)06/30/2015 Still unable to locate the LS headwall and 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. (A. Freitag - DWR Sutter Yard)07/08/2013 Same as last inspection. Unable to locate LS headwall. (A. Freitag - DWR Sutter Yard)04/24/2012 Unable to locate LS headwall. Need photo of LS headwall during next inspection. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 15.3 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. This pipe runs on an angle through the levee, then underground along the LS slope to historic levee mile (HLM) 22.39 where it enters a ditch on the LS. [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.41), listed as 30-inch pipe. USACE Sacramento O&M Manual, Unit 519, June 1962, Revised 3 Feb 2011, (HLM 22.41), listed as 24-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/21.2, STA 50+87E, page 21 of 31 electronic file, listed as 30-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 7:44:00 AM						

Photo 1 of 3 : UCIP_SP_2023_58572_67498.jpg



View of WS slope looking from WS headwall to 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 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	22.15	Rating **	M	Issue No.	45 (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_2023_58572_67496.jpg



View of WS slope looking from WS headwall to levee crown.

LM Start	22.15	Rating **	M	Issue No.	45 (cont)
LM End	22.15	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2023_58572_67497.jpg



View of flap gate on WS.

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_2023_MA0013_301_62_20230417_00010.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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/26/2023 04/26/2023	Makar Sokol

LM Start	22.46	Rating **	M	Issue No.	46
LM End	22.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.357407°	39.357407°
				-121.877114°	-121.877114°
DWR ID	DWR_MA0013_02_s_2023_46				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

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	Slope Stability			39.357085°	39.357033°
				-121.877812°	-121.877901°
DWR ID	DWR_MA0013_02_f_2019_58				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2023_MA0013_301_58_20230427_00128.jpg



View of the sloughing along the landside slope. Spring 2023.

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