

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2020 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2020 Levee Inspection Results

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	4/9/2020 - 4/9/2020			
DWR Inspector	Makar Sokol			
Accompanied By	Bob Duffey Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_1				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	16
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_16				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2019.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.27	Rating **	U	Issue No.	87
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.593094 °	39.593094 °
				-121.703570 °	-121.703570 °
DWR ID	16327				
Comment Code					
Inspector Comment					
DS_ID:16327 FS_ID:54936 EP_NO: 6135 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Crossing remains Urgent because of the levee erosion on both the WS and LS. Need to contact owner to address the open section to levee and determine if the pipe is still leaking. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 Same as last inspection; crossing remains Urgent because levee erosion on both WS and LS still present (D. Sanoski - DWR UCIP).06/14/2017 LS slope still dug away from around the pipe. Appears no repairs have been made to the pipe yet. (DWR Sutter Yard- A.Freitag)11/16/2016 Appears no repairs have been made here yet as LS slope is still dug away. (DWR Sutter Yard- A.Freitag)04/28/2016 8-inch pipe was running water but was leaking at a weld joint on the LS slope. Pipe appears to have been dug out by the landowner but unsure if repairs are being made yet. (see photo 5)07/14/2015 Pipe end is still welded solid.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/10/2013 Same as last inspection. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 2.8 feet below the crown. Permit requirements are as follow: during the flood season the 5-inch irrigation pipe will be removed and a plate bolted over the waterside (WS) end of the 8-inch. Pipe section is completely buried. Current configuration does not allow for 5-inch irrigation pipe to slide pipe through. 8-inch pipe is welded solid. (8-inch pipe authorized under Permit No. 6135, 1968 - George Washington) [Additional Reference(s): DWR Levee Log, 1993 (HLM 0.29)] FS Date: 8/6/2019 8:33:00 AM					

Photo 1 of 3 : UCIP_SP_2020_54936_66680.jpg



Overview of the crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.27	Rating **	U	Issue No.	87 (cont)
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.593094 °	39.593094 °	
			-121.703570 °	-121.703570 °	
DWR ID	16327				

Photo 2 of 3 : UCIP_SP_2020_54936_66683.jpg



Air Vent located on WS.

LM Start	0.27	Rating **	U	Issue No.	87 (cont)
LM End	0.27	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54936_66681.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.50	Rating **	M	Issue No.	88
LM End	0.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.590968 °	39.590968 °
				-121.701240 °	-121.701240 °
DWR ID	16342				
Comment Code					
Inspector Comment					
DS_ID:16342 FS_ID:54937 EP_NO: 12129 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Need to contact owner to address proper abandonment per Title 23. Owner will need to coordinate with CVFPB. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/16/2016 Abandoned. WS end still has plate bolted on. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing still has plate bolted on it at the WS end and LS end was mostly buried.07/14/2015 WS pipe end still had plate bolted on it.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/10/2013 Same as last inspection.04/12/2012 WS pipe daylight has bolted plate. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe through the levee, 2.4 feet below the crown. Steel plate bolted on the waterside (WS) end. (5-inch water pipe authorized under Permit No. 12129, 12129A, 1977 - John & Jerie Malina) [Additional Reference(s): DWR Levee Log, 1993 (HLM 0.52)] FS Date: 8/6/2019 8:35:00 AM					

LM Start	0.50	Rating **	M	Issue No.	88 (cont)
LM End	0.50	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_54937_66686.jpg



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

Photo 2 of 3 : UCIP_SP_2020_54937_66684.jpg



WS-Bolted plate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.50	Rating **	M	Issue No.	88 (cont)
LM End	0.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.590968 °	39.590968 °
				-121.701240 °	-121.701240 °
DWR ID	16342				

Photo 3 of 3 : UCIP_SP_2020_54937_66685.jpg



LS-Outlet

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

No Photos

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

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

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_2020_MA0013_300_12_20200226_00005.jpg



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

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

Photo 1 of 1 : SP_2020_MA0013_300_61_20200226_00010.jpg



View of the prunings along the landside slope.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	89	
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:54938 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, due to unauthorized encroachment. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/10/2013 Same as last inspection.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. FIELD_STRUCT_DESC: 24-inch 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 519, June 1962 (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_2020_54938_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	89 (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_2020_54938_66688.jpg



View of WS headwall and flap gate.

LM Start	1.13	Rating **	M	Issue No.	89 (cont)
LM End	1.13	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54938_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	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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.59	Rating **	M	Issue No.	90
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:54939
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record remains Non-Urgent, need to clarify owner for this crossing. This pipe has been identified as an LMA responsible drainage pipe. However, adjacent property owner has modified the WS outlet by burying the concrete headwall. No permit has been found authorizing the modification to the WS. LMA and adjacent property owner will need to coordinate with the CVFPB to comply with Title 23. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 Same as last inspection; still no sign of WS pipe end. Unclear if this SD crossing is still in use. The WS toe has standing, mucky, water around where the pipe end should be. Downgrading to Non-Urgent from Urgent because there appears no immediate threat to levee. Recommend follow up with owner to determine pipe use, and an internal pipe inspection to determine pipe integrity and threat to levee (D. Sanoski - DWR UCIP).06/14/2017 Still no sign of WS pipe end. Pipe may need to be traced with GPR and excavated to determine if the WS end was properly capped after the Headwall and pipe sections were removed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 WS structures still removed. (DWR Sutter Yard- A.Freitag)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. (DWR UCIP - omagana)
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) (DWR Sutter Yard - afreitag)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)05/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/02/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (DWR Sutter Yard - afreitag) 04/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s): DWR Levee Log, 1993 (HLM 1.61), listed as 26-inch pipe. USACE

Photo 1 of 3 : UCIP_SP_2020_54939_66695.jpg



Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

Sacramento O&M Manual 519, June 1962 (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.	90 (cont)
LM End	1.59	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_54939_66699.jpg



Corrugated metal riser with slide gate located on WS slope.

LM Start	1.59	Rating **	M	Issue No.	90 (cont)
LM End	1.59	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54939_66698.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.66	Rating **	M	Issue No.	91
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:56082
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record remains Non-Urgent, pipe has been abandoned. Crossing needs to be abandoned properly per Title 23. No owner has been identified for this crossing. Recommend adding cover to riser as a safety measure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 PVC pipe still present blocking screw gate. LS inlet of the 24" cmp pipe is about 75% blocked by sediment. (DWR Sutter Yard- AFreitag)11/16/2016 PVC pipe still present blocking the screw gate. (DWR Sutter Yard- AFreitag)04/28/2016 Pvc pipe is still present through the crossing. Slide gate cannot shut fully.07/14/2015 4-inch pipe still present and blocking the screw gate.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.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.
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 519, June 1962 (HLM 1.69), listed as 24-inch pipe]
FS Date: 8/6/2019 9:20:00 AM

Photo 1 of 3 : UCIP_SP_2020_56082_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	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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.66	Rating **	M	Issue No.	91 (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_2020_56082_66704.jpg



WS view looking upstream.

LM Start	1.66	Rating **	M	Issue No.	91 (cont)
LM End	1.66	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56082_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 N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.31	Rating **	M	Issue No.	92
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:56083 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record remains Non-Urgent, pipe has been abandoned. Crossing needs to be abandoned properly per Title 23. No owner has been identified for this irrigation pipe. Recommend adding cover to riser as a safety measure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Still no LS inlet visible- trace with locator/GPR to try and locate. Wooden debris down inside of WS standpipe. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Appears abandoned. Unable to find anything on LS. (DWR Sutter Yard- AFreitag)04/28/2016 Appears to be an abandoned crossing. LS headwall and pipe inlet are still completely buried.07/14/2015 Still cannot find an inlet or outlet.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.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. FIELD_STRUCT_DESC: *ABANDONED* 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 519, June 1962 (HLM 2.35), listed as 24-inch pipe] FS Date: 8/6/2019 9:30:00 AM					

Photo 1 of 3 : UCIP_SP_2020_56083_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.31	Rating **	M	Issue No.	92 (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_2020_56083_66709.jpg



Corrugated riser located on WS slope.

LM Start	2.31	Rating **	M	Issue No.	92 (cont)
LM End	2.31	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56083_66707.jpg



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

LM Start	2.37	Rating **	M	Issue No.	6
LM End	2.37	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.565577 °	39.565577 °
				-121.703721 °	-121.703721 °
DWR ID	DWR_MA0013_01_s_2019_6				
Comment Code					
MA : Material					
Inspector Comment					
Remove the bales of straw from the waterside toe.					

Photo 1 of 1 : SP_2020_MA0013_300_6_20200226_00003.jpg



View of the straw bales at the waterside toe. Spring 2019.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	73
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.563676 °	39.563676 °
				-121.703775 °	-121.703775 °
DWR ID	DWR_MA0013_01_f _ 2019_73				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_300_73_20200226_00011.jpg



View of depressions in the waterside slope due to vehicle traffic. Fall 2019.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.70	Rating **	M	Issue No.	93
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:54942
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, no permit identified. Crossing is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.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.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.74). USACE Sacramento O&M Manual 519, June 1962 (HLM 2.74), listed as 24-inch pipe]
FS Date: 8/6/2019 9:39:00 AM

LM Start	2.70	Rating **	M	Issue No.	93 (cont)
LM End	2.70	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_54942_66715.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 3 : UCIP_SP_2020_54942_66714.jpg



Flap gate at WS.

* 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.70	Rating **	M	Issue No.	93 (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 3 of 3 : UCIP_SP_2020_54942_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	94
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:54943
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record remains Non-Urgent, no permit identified authorizing pipe. Pipe has been internally cleaned and cleared of any obstructions on the WS and LS. DMP internal inspection pending. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is completely buried by sediment-needs to be dug out. Pipe is about 50% full of sediment inside. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Pipe about 50% full of sediment. (DWR Sutter Yard- A.Freitag)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.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Pipe section was dug up and repaired. Crossing is now in good condition.07/15/2013 Pipe appears to have a possible hole in top of pipe about 10ft. in from LS headwall.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.
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 519, June 1962 (HLM 3.10), listed as 36-inch pipe]
FS Date: 8/6/2019 9:47:00 AM

Photo 1 of 3 : UCIP_SP_2020_54943_66718.jpg



Overview of levee crown looking downstream at crossing.

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	94 (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_2020_54943_66716.jpg



WS levee slope.

LM Start	3.05	Rating **	M	Issue No.	94 (cont)
LM End	3.05	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54943_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.24	Rating **	M	Issue No.	95
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:54944 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record remains Non-Urgent, no permit found authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both pipe ends and gates are mostly buried- need to be dug out. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Both gates closed but partially buried and unable to open. (DWR Sutter Yard- AFreitag)04/28/2016 Sediment build up on both gates blocking them from operating properly.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Stem on LS screw gate has been replaced and is now full functional.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. FIELD_STRUCT_DESC: 24-inch 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 519, June 1962 (HLM 3.29), listed as 24-inch pipe] FS Date: 8/6/2019 10:02:00 AM					

Photo 1 of 3 : UCIP_SP_2020_54944_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.24	Rating **	M	Issue No.	95 (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_2020_54944_66724.jpg



Flap gate on WS.

LM Start	3.24	Rating **	M	Issue No.	95 (cont)
LM End	3.24	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54944_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	96
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:54945
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is buried by sediment- needs to be dug out. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/17/2012 WS headwall has been cleared of debris and sedimentation.
FIELD_STRUCT_DESC: 24-inch 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 519, June 1962 (HLM 3.31), listed as 24-inch pipe]
FS Date: 8/6/2019 10:03:00 AM

LM Start	3.27	Rating **	M	Issue No.	96 (cont)
LM End	3.27	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_54945_66731.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2020_54945_66730.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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	96 (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 3 of 3 : UCIP_SP_2020_54945_66732.jpg



Sedimentation cleared on WS.

LM Start	3.72	Rating **	M	Issue No.	97
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:54946
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Crossing is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both pipe ends were underwater during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Both sides of the crossing were underwater during time of inspection.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.
FIELD_STRUCT_DESC: 24-inch corrugate metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.80). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.80), listed as 24-inch pipe]
FS Date: 8/26/2019 12:22:00 PM

Photo 1 of 3 : UCIP_SP_2020_54946_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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.72	Rating **	M	Issue No.	97 (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_2020_54946_66738.jpg



WS slope covered by dense vegetation.

LM Start	3.72	Rating **	M	Issue No.	97 (cont)
LM End	3.72	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54946_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.74	Rating **	M	Issue No.	98
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:54947
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, pipe has been abandoned. No permit has been identified for this crossing. DMP internal inspection has not been completed. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Appears abandoned-needs to be done properly. WS gate was buried/submerged and the LS slide gate is still damaged and buried. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Both LS and WS gates buried. (DWR Sutter Yard- AFreitag)04/28/2016 Abandoned crossing. Ls screw is still bent and mostly buried.07/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over.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.
FIELD_STRUCT_DESC: *ABANDONED* 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 519, June 1962 (HLM 3.82), listed as 24-inch pipe]
FS Date: 8/26/2019 12:24:00 PM

Photo 1 of 3 : UCIP_SP_2020_54947_66743.jpg



Overview of levee crown at crossing looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.74	Rating **	M	Issue No.	98 (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_2020_54947_66741.jpg



WS flap gate blocked by debris.

LM Start	3.74	Rating **	M	Issue No.	98 (cont)
LM End	3.74	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54947_66742.jpg



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

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

Photo 1 of 1 : SP_2020_MA0013_300_18_20200415_00180.jpg



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

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.33	Rating **	M	Issue No.	99
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:54948 EP_NO: 6084 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, maintenance required. Sign is down on LS. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/14/2015 Crossing appears in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Visible marker on LS. FIELD_STRUCT_DESC: Underground telephone cable, 1.5-inch through the levee at approximately 2 feet below the crown. (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_2020_54948_66747.jpg



Visible marker for underground cable on LS.

LM Start	4.33	Rating **	M	Issue No.	99 (cont)
LM End	4.33	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_54948_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.33	Rating **	M	Issue No.	99 (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_2020_54948_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.35	Rating **	M	Issue No.	100
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:54949 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is shut but blocked by sediment- needs to be dug out. LS slide gate has some minor sediment built up against it. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.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. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.43). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54949_66752.jpg



Overview of levee crown at crossing looking upstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.35	Rating **	M	Issue No.	100 (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_2020_54949_66753.jpg



View of WS slope and toe.

LM Start	4.35	Rating **	M	Issue No.	100 (cont)
LM End	4.35	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54949_66750.jpg



View of WS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	101
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:54950
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is submerged and appears to be half buried by sediment. LS slide gate is fully submerged on the edge of the rice field. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 No signs of burrowing activity on this inspection.04/18/2012 Burrow activity near crossing, burrow holes present on WS slope.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee 7.7 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.94). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54950_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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	101 (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_2020_54950_66758.jpg



Burrow activity on WS slope.

LM Start	4.85	Rating **	M	Issue No.	101 (cont)
LM End	4.85	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54950_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.33	Rating **	M	Issue No.	102					
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:54951 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this pipe. Pipe is scheduled to be lined. Minor sloughing observed on LS just immediately d/s of concrete headwall (see photo). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.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.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.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. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.43). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54951_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.33	Rating **	M	Issue No.	102 (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_2020_54951_66760.jpg



WS Flap Gate

LM Start	5.33	Rating **	M	Issue No.	102 (cont)
LM End	5.33	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54951_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.38	Rating **	M	Issue No.	103
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:54952
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing this pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is partially buried by sediment- needs to be dug out. LS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/16/2016 WS flap gate closed but blocked from opening by sediment. (DWR Sutter Yard- A Freitag)04/28/2016 WS flap gate blocked from opening by sediment.07/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes.
FIELD_STRUCT_DESC: 24-inch 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 519, June 1962 (HLM 5.48), listed as 24-inch pipe]
FS Date: 8/26/2019 12:30:00 PM

LM Start	5.38	Rating **	M	Issue No.	103 (cont)
LM End	5.38	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_54952_66764.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3 : UCIP_SP_2020_54952_66765.jpg



View of WS slope and channel.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.38	Rating **	M	Issue No.	103 (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 3 of 3 : UCIP_SP_2020_54952_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.39	Rating **	M	Issue No.	104	
LM End	5.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.522376 °	39.522376 °	
				-121.707520 °	-121.707520 °	
DWR ID	16358					
Comment Code						
Inspector Comment						
DS_ID:16358 FS_ID:54956 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Western Canal Siphon was running during inspection. WS was dry and no signs of leaks were observed during inspection. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection. FIELD_STRUCT_DESC: [Western Canal Siphon] 1 of 3: Three 8-foot by 10-foot irrigation concrete conduits through the levee and channel. Top of concrete conduit, 4 feet below the crown. Conduit on the downstream end is closed off with a removable concrete flashboard. Concrete "U" headwall on the landside (LS) with slots for flashboards for other two openings. Guardrails around headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.50). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.49), listed as three 8-foot by 10-foot concrete conduit] FS Date: 8/26/2019 12:31:00 PM						

Photo 1 of 3 : UCIP_SP_2020_54956_66778.jpg



Levee view over Siphon

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.39	Rating **	M	Issue No.	104 (cont)
LM End	5.39	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.522376 °	39.522376 °	
			-121.707520 °	-121.707520 °	
DWR ID	16358				

Photo 2 of 3 : UCIP_SP_2020_54956_66777.jpg



Flood Channel over Siphon

LM Start	5.39	Rating **	M	Issue No.	104 (cont)
LM End	5.39	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54956_66776.jpg



Siphon - LS. View of U/S wingwall.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	105	
LM End	5.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.522376 °	39.522376 °	
				-121.707520 °	-121.707520 °	
DWR ID	17375					
Comment Code						
Inspector Comment						
DS_ID:17375 FS_ID:54954 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Western Canal Siphon was running during inspection. WS was dry and no signs of leaks were observed during inspection. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection. FIELD_STRUCT_DESC: [Western Canal Siphon] 2 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit, 4 feet below the crown. Conduit on the downstream end is closed off with a removable concrete flashboard. Concrete "U" headwall on the landside (LS) with slots for flashboards for other two openings. Guardrails around headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.50). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.49), listed as three 8-foot by 10-foot concrete conduit] FS Date: 8/26/2019 12:31:00 PM						

Photo 1 of 3 : UCIP_SP_2020_54954_66772.jpg



Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	105 (cont)
LM End	5.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522376 °	39.522376 °
				-121.707520 °	-121.707520 °
DWR ID	17375				

Photo 2 of 3 : UCIP_SP_2020_54954_66773.jpg



View of flood channel over siphon.

LM Start	5.40	Rating **	M	Issue No.	105 (cont)
LM End	5.40	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54954_66774.jpg



View of LS structure.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	106
LM End	5.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522338 °	39.522338 °
				-121.707530 °	-121.707530 °
DWR ID	17376				

Comment Code

Inspector Comment

DS_ID:17376
FS_ID:54955
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Western Canal Siphon was running during inspection. WS was dry and no signs of leaks were observed during inspection. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.07/15/2013 Same as last inspection.12/02/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Western Canal Siphon] 3 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit, 4 feet below the crown elevation. Conduit on the downstream end is closed off with a removable concrete flashboard. Concrete "U" headwall on the landside (LS) with slots for flashboards for other two openings. Guardrails around headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.50). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.49), listed as three 8-foot by 10-foot concrete conduit]
FS Date: 8/26/2019 12:33:00 PM

Photo 1 of 3 : UCIP_SP_2020_54955_66781.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.40	Rating **	M	Issue No.	106 (cont)
LM End	5.40	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.522338 °	39.522338 °	
			-121.707530 °	-121.707530 °	
DWR ID	17376				

Photo 2 of 3 : UCIP_SP_2020_54955_66782.jpg



View of flood channel over siphon.

LM Start	5.40	Rating **	M	Issue No.	106 (cont)
LM End	5.40	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54955_66780.jpg



View of LS structure.

LM Start	5.42	Rating **	M	Issue No.	85
LM End	7.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.521961 °	39.494199 °
				-121.707579 °	-121.726292 °
DWR ID	DWR_MA0013_01_s_2020_85				
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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.60	Rating **	M	Issue No.	86
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.519606 °	39.494199 °
				-121.708557 °	-121.726292 °
DWR ID	DWR_MA0013_01_s _ 2020_86				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	107
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:54957
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS Flap gate is completely buried- needs to be dug out. LS is blocked off by flashboards that are partially buried. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 WS still completely buried. (DWR Sutter Yard- A.Freitag)04/28/2016 WS gate and headwall are buried. Only the top of the headwall was visible. LS appeared ok.07/13/2015 Both the LS screw gate and WS flap gate are completely buried.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.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.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. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.73). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54957_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	107 (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_2020_54957_66794.jpg



View of WS slope and toe.

LM Start	5.63	Rating **	M	Issue No.	107 (cont)
LM End	5.63	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54957_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.87	Rating **	M	Issue No.	108	
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:54958 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. LS is completely submerged in an irrigation ditch. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Burrow activity near crossing; burrow holes present on LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 6.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.97). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54958_66800.jpg



Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.87	Rating **	M	Issue No.	108 (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_2020_54958_66801.jpg



View of WS slope and toe.

LM Start	5.87	Rating **	M	Issue No.	108 (cont)
LM End	5.87	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54958_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	109	
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:54959 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS appears to be in good condition. LS slide gate is buried and submerged. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 LS screw gate is buried and non-operational. (DWR Sutter Yard- AFreitag)04/28/2016 LS screw gate is still completely buried. 07/13/2015 LS screw gate is completely buried.05/21/2014 Same as last inspection.07/15/2013 WS slope has been cleared of vegetation and is in good condition. LS screw gate is still buried.12/02/2013 Same as last inspection.04/18/2012 LS slide gate is buried. Pipe is not visible on LS toe. Limited inspection on WS slope due to dense vegetation. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.32). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54959_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	109 (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_2020_54959_66806.jpg



View of WS slope and toe.

LM Start	6.23	Rating **	M	Issue No.	109 (cont)
LM End	6.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54959_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_2020_MA0013_300_3_20200226_00001.jpg



View of the agricultural ditch along the toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.45	Rating **	M	Issue No.	110
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:55967
EP_NO: 5200B
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, potential levee integrity issues. This crossing is part of DMP's Phase 1 eligibility. No internal inspection has been completed for this crossing. Minor holes visible on LS that could be associated with burrow activity or signs of sink hole. Need internal inspection of pipe to determine condition of pipe through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Hole/erosion behind the flashboards was repaired. New flash boards were installed and the erosion hole filled back in. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)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. (DWR Sutter Yard - afreitag)07/13/2015 Hole still present behind the LS flashboards. (DWR Sutter Yard - afreitag)05/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/02/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. (DWR Sutter Yard - afreitag)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. (DWR UCIP - omagana)
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 519, June 1962 (HLM 6.56), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 777+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]
FS Date: 8/26/2019 12:42:00 PM

Photo 1 of 3 : UCIP_SP_2020_55967_66814.jpg



Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.45	Rating **	M	Issue No.	110 (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_2020_55967_66813.jpg



View of WS slope and toe.

LM Start	6.45	Rating **	M	Issue No.	110 (cont)
LM End	6.45	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55967_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.99	Rating **	M	Issue No.	111
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:54967
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, due to no permit found authorizing pipe and maintenance issue. Pipe is scheduled to be lined. Slide gate detached and sitting on the side of concrete wingwall. Slide gate will need to be re-attached. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 LS slide gate is still damaged and needing to be replaced. WS appeared to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Needs a new screw gate installed on the LS. (DWR Sutter Yard- A.Freitag)04/28/2016 LS slide gate is still bent. Everything else with the crossing appeared ok.07/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.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.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.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.10). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54967_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.99	Rating **	M	Issue No.	111 (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_2020_54967_66832.jpg



View of WS slope and toe.

LM Start	6.99	Rating **	M	Issue No.	111 (cont)
LM End	6.99	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54967_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	112
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:56089
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 LS slide gate stem still bent. WS appeared to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Screw gate stem bent but gate is still operational. (DWR Sutter Yard- A.Freitag)04/28/2106 Tested positive closure device the bent stem on the slide gate did not seem to affect its functions. Gate operable.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.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent.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. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.34). USACE Sacramento O&M Manual 519, June 1962 (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_2020_56089_66844.jpg



Overview of levee crown at crossing looking D/S.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	112 (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_2020_56089_66845.jpg



View of WS slope and toe.

LM Start	7.22	Rating **	M	Issue No.	112 (cont)
LM End	7.22	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56089_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.46	Rating **	M	Issue No.	113	
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:54969 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.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.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.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. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.58). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54969_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.46	Rating **	M	Issue No.	113 (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_2020_54969_66851.jpg



WS view of slope and channel.

LM Start	7.46	Rating **	M	Issue No.	113 (cont)
LM End	7.46	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54969_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	114	
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:56090 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. The following maintenance issues should be addressed: clear vegetation from LS inlet and repair CMP riser lid (safety measure). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Debris down inside of WS riser. The rest of the crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.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.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection. 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 519, June 1962 (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_2020_56090_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	114 (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_2020_56090_66865.jpg



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

LM Start	7.64	Rating **	M	Issue No.	114 (cont)
LM End	7.64	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56090_66863.jpg



WS Slide gate

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	115	
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:54973 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears to be in good condition. 05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Sediment build up against flashboards. Flashboards are in use on landside of levee. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.11). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54973_66872.jpg



Overview of levee crown at crossing looking D/S.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	115 (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_2020_54973_66873.jpg



View of WS slope and toe.

LM Start	8.00	Rating **	M	Issue No.	115 (cont)
LM End	8.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54973_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	116
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:54974
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Vegetation needs to be cleared from inlet/outlet. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both sides of the crossing were buried with sediment- needs to be cleared away. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 WS flap gate is closed but is blocked from opening by sediment. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes are cleared of vegetation and are in good condition. WS flap gate is blocked from opening fully by sediment.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.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.40). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54974_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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	116 (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_2020_54974_66874.jpg



View of WS slope and toe.

LM Start	8.27	Rating **	M	Issue No.	116 (cont)
LM End	8.27	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54974_66877.jpg



View of WS flap gate and headwall.

LM Start	8.66	Rating **	M	Issue No.	84
LM End	9.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.480274 °	39.467473 °
				-121.734687 °	-121.743707 °
DWR ID	DWR_MA0013_01_s_2020_84				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.81	Rating **	M	Issue No.	63
LM End	9.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.478730 °	39.467473 °
				-121.736412 °	-121.743705 °
DWR ID	DWR_MA0013_01_s_2020_63				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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_2020_MA0013_300_49_20200226_00007.jpg



View of the erosion site along the landside toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.82	Rating **	U	Issue No.	117
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:54975
EP_NO: N/A
Repair Type: Urgent
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. (DWR Sutter Yard- A.Freitag)11/16/2016 LS erosion is still a major problem here. (DWR Sutter Yard- A.Freitag)04/28/2016 Erosion still present at the LS headwall. (DWR Sutter Yard - afreitag)07/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. (DWR Sutter Yard - afreitag)05/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/03/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/15/2013 Same as last inspection. (DWR Sutter Yard - afreitag)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. (DWR UCIP - omagana)
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 519, June 1962 (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_2020_54975_66881.jpg



Catwalk and screw 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.82	Rating **	U	Issue No.	117 (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_2020_54975_66884.jpg



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

LM Start	8.82	Rating **	U	Issue No.	117 (cont)
LM End	8.82	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54975_66882.jpg



View of LS structure. Erosion present behind headwall.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.82	Rating **	M	Issue No.	118
LM End	8.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478483 °	39.478483 °
				-121.736550 °	-121.736550 °
DWR ID	16324				
Comment Code					
Inspector Comment					
DS_ID:16324 FS_ID:55011 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing structure. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.7/15/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 48-inch by 48-inch (4-foot by 4-foot) concrete irrigation conduit through the levee 13.9 feet below the crown. This crossing record is for the upstream conduit. Sluice gates on the concrete headwall on the waterside (WS) side. Wooden walkway to the sluice gates. Concrete "U" headwall on the landside (LS) end. WS slope cobble revetted. [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.96). USACE Sacramento O&M Manual 519, June 1962 (HLM 8.96), listed as two 4.5-foot by 4.5-foot concrete conduits, As-built DWG No. 50-4-3608, Sheet No. 3608/20, 28, STA 651+11E, page 21, 27, 28 (dup) of 28 electronic file, listed as dual 4'-6" concrete conduit (irrigation structure)] FS Date: 8/27/2019 2:10:00 PM					

Photo 1 of 3 : UCIP_SP_2020_55011_66894.jpg



Overview of levee crown at crossing looking U/S.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.82	Rating **	M	Issue No.	118 (cont)
LM End	8.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478483 °	39.478483 °
				-121.736550 °	-121.736550 °
DWR ID	16324				

Photo 2 of 3 : UCIP_SP_2020_55011_66892.jpg



Catwalk, sluice gates, & headwall on WS.

LM Start	8.82	Rating **	M	Issue No.	118 (cont)
LM End	8.82	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55011_66891.jpg



Headwall and sluice gates located on WS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.83	Rating **	M	Issue No.	119	
LM End	8.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.478483 °	39.478483 °	
				-121.736630 °	-121.736630 °	
DWR ID	17521					
Comment Code						
Inspector Comment						
DS_ID:17521 FS_ID:55012 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing structure. No other issues were noted during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears to be in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 4-foot by 4-foot concrete conduits through the levee, 13.9 feet below the crown. This crossing is for the downstream conduit. Sluice gates on the concrete headwall on the waterside (WS). Wooden walkway to the sluice gates. Concrete "U" headwall on the landside (LS) end. WS slope cobble revetted. [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.96). USACE Sacramento O&M Manual 519, June 1962 (HLM 8.96), listed as two 4.5-foot by 4.5-foot concrete conduits, As-built DWG No. 50-4-3608, Sheet No. 3608/20, 28, STA 651+11E, page 21, 27, 28 (dup) of 28 electronic file, listed as dual 4'-6" concrete conduit (irrigation structure)] FS Date: 8/27/2019 2:10:00 PM						

Photo 1 of 3 : UCIP_SP_2020_55012_66889.jpg



Overview of levee crown at crossing looking U/S.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.83	Rating **	M	Issue No.	119 (cont)
LM End	8.83	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.478483 °	39.478483 °	
			-121.736630 °	-121.736630 °	
DWR ID	17521				

Photo 2 of 3 : UCIP_SP_2020_55012_66887.jpg



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

LM Start	8.83	Rating **	M	Issue No.	119 (cont)
LM End	8.83	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55012_66888.jpg



Sluice gates located on WS

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.84	Rating **	M	Issue No.	120
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:54978 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Spoke to 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. (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 n good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 LS slope has been sprayed and cleared of vegetation and is in good condition.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. 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 519, June 1962 (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_2020_54978_66895.jpg



Overview of levee crown at crossing looking D/S.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.84	Rating **	M	Issue No.	120 (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_2020_54978_66897.jpg



View of WS slope with 2 slide gates.

LM Start	8.84	Rating **	M	Issue No.	120 (cont)
LM End	8.84	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54978_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.88	Rating **	M	Issue No.	121
LM End	8.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477817 °	39.477817 °
				-121.736990 °	-121.736990 °
DWR ID	16326				

Comment Code

Inspector Comment

DS_ID:16326
FS_ID:54979
EP_NO: 3836
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, need to reach out to owner to obtain maintenance records. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Line is still in use. Visible markers on WS and LS.
FIELD_STRUCT_DESC: 8.625-inch high pressure steel fuel line through the levee, 3.2 feet below the crown. Marker located on the waterside (WS). Kinder Morgan is the owner of line--contact information is 213.624.9461 or Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 ? Or email villalovosf@kindermorgan.com. Additional contact is Ken Yeo, Sacramento Local Area Manager, at 916.416.7938 or by email yeok@kindermorgan.com. Frank Villalovos is the primary contact for this crossing. (Permit No. 3836, 1962 - Southern Pacific Pipelines Inc.) [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.01)]
FS Date: 8/27/2019 2:11:00 PM

LM Start	8.88	Rating **	M	Issue No.	121 (cont)
LM End	8.88	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_54979_66904.jpg



Underground petroleum pipeline marker visible on WS.

Photo 2 of 3 : UCIP_SP_2020_54979_66903.jpg



Petroleum information marker.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.88	Rating **	M	Issue No.	121 (cont)
LM End	8.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477817 °	39.477817 °
				-121.736990 °	-121.736990 °
DWR ID	16326				

Photo 3 of 3 : UCIP_SP_2020_54979_66902.jpg



Sign visible on WS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.89	Rating **	M	Issue No.	122
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:54980
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent due to potential threat to levee and no permit identified authorizing this pipe. Small leak found on LS by concrete distribution box about 10 feet from levee toe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Erosion still present on the side of the LS structure- still not affecting levee yet. (DWR Sutter Yard- AFreitag)11/16/2016 Some erosion still present near the LS structure. Does not affect the levee yet. (DWR Sutter Yard- AFreitag)04/28/2016 Erosion happening around the concrete structure on LS. Its not yet affecting the levee but will keep monitoring.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Crossing is not visible on WS. 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 3.80), listed as 60-inch pipe. USACE Sacramento O&M Manual 519, June 1962 (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_2020_54980_66908.jpg



Overview picture looking south

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.89	Rating **	M	Issue No.	122 (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_2020_54980_66907.jpg



Headwall at LS distribution box

LM Start	8.89	Rating **	M	Issue No.	122 (cont)
LM End	8.89	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54980_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.90	Rating **	M	Issue No.	123	
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:54981 EP_NO: 1234A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/27/2019 Record remains Non-Urgent, due to maintenance issue and/or potential abandonment of pipe through levee. Marker is still missing unable to determine if crossing has been abandoned. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS marker missing. (DWR Sutter Yard- A.Freitag)11/16/2016 WS marker is knocked over and laying on the ground. (DWR Sutter Yard- A.Freitag)04/28/2016 Marker missing on WS.07/13/2015 Crossing appears in good condition. No noticeable issues to report.Need to contact owner to replace marker.07/15/2013 Same as last inspection.12/03/2013 Same as last inspection.05/21/2014 Same as last inspection. FIELD_STRUCT_DESC: Underground telephone cable through the levee at an unknown depth below the crown. (Permit No. 1234, 1234A, 1947 - Pacific Telephone and Telegraph Company [PT&T]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.03)] FS Date: 8/27/2019 2:13:00 PM						

LM Start	8.90	Rating **	M	Issue No.	123 (cont)
LM End	8.90	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_54981_66909.jpg



Underground telephone cable marker located on WS.

Photo 2 of 3 : UCIP_SP_2020_54981_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 N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.90	Rating **	M	Issue No.	123 (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_2020_54981_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	124
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:54982
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 LS inlet has minor vegetation still. WS appears in good condition.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID# USACE_CESPK_M13D_2011_p_0278 for WS outlet sedimentation and sediment/grass at LS inlet.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.09). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54982_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	124 (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_2020_54982_66911.jpg



View of WS slope and toe.

LM Start	8.95	Rating **	M	Issue No.	124 (cont)
LM End	8.95	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54982_66912.jpg



View of LS slope and toe.

LM Start	9.70	Rating **	C	Issue No.	5
LM End	9.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.467170 °	39.466860 °
				-121.743887 °	-121.744108 °
DWR ID	DWR_MA0013_01_s_2012_5				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	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_2020_MA0013_300_10_20200415_00181.jpg



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

LM Start	9.75	Rating **	M	Issue No.	64
LM End	9.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.466478 °	39.466478 °
				-121.744338 °	-121.744338 °
DWR ID	DWR_MA0013_01_f_2016_64				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	9.85	Rating **	M	Issue No.	82
LM End	15.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.465156 °	39.397689 °
				-121.745091 °	-121.812640 °
DWR ID	DWR_MA0013_01_s_2020_82				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.86	Rating **	M	Issue No.	83
LM End	15.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.465077 °	39.399376 °
				-121.745154 °	-121.810034 °
DWR ID	DWR_MA0013_01_s_2020_83				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	9.88	Rating **	M	Issue No.	125
LM End	9.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464850 °	39.464850 °
				-121.745290 °	-121.745290 °
DWR ID	16331				
Comment Code					
Inspector Comment					
DS_ID:16331 FS_ID:54986 EP_NO: 1238 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of line through levee. Need to contact owner to request maintenance records to confirm integrity of line. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 New structure with shutoff valve installed about 5ft. from LS toe. FIELD_STRUCT_DESC: 8-inch high pressure gas line through the levee, 13.3 feet below the crown. Substation with wire enclosure at the landside (LS) toe. (Permit No. 1238, 1947 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 10.03). USACE Sacramento O&M Manual 519, June 1962 (HLM 10.03), listed as 8-inch gas line] FS Date: 8/27/2019 2:15:00 PM					

Photo 1 of 3 : UCIP_SP_2020_54986_66917.jpg



Underground gas line marker 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.88	Rating **	M	Issue No.	125 (cont)
LM End	9.88	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.464850 °	39.464850 °	
			-121.745290 °	-121.745290 °	
DWR ID	16331				

Photo 2 of 3 : UCIP_SP_2020_54986_66919.jpg



Substation near LS toe

LM Start	9.88	Rating **	M	Issue No.	125 (cont)
LM End	9.88	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54986_66918.jpg



New shutoff valve structure near LS toe

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	11.03	Rating **	M	Issue No.	126
LM End	11.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.449886 °	39.449886 °
				-121.755050 °	-121.755050 °
DWR ID	16332				

Comment Code

Inspector Comment

DS_ID:16332
FS_ID:54990
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee canal is diverted about 900 feet upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.
FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends and weir in channel. Crossing is used as an irrigation turnout. [Additional Reference(s): DWR Levee Log, 1993 (HLM 11.21). USACE Sacramento O&M Manual 519, June 1962 (HLM 11.21), As-built DWG No. 50-4-3511, Sheet No. 3511/10.3, STA 534+52E, page 10 of 31 electronic file, listed as 60-inch CMP through the levee; As-built DWG No. 50-4-3037 and DWG No. 50-4-3511 sht 3511/28 referenced not available]
FS Date: 8/27/2019 2:16:00 PM

Photo 1 of 3 : UCIP_SP_2020_54990_66926.jpg



View of WS corrugated metal riser and concrete wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	11.03	Rating **	M	Issue No.	126 (cont)
LM End	11.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.449886 °	39.449886 °
				-121.755050 °	-121.755050 °
DWR ID	16332				

Photo 2 of 3 : UCIP_SP_2020_54990_66925.jpg



Corrugated metal riser with owner information.

LM Start	11.03	Rating **	M	Issue No.	126 (cont)
LM End	11.03	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54990_66928.jpg



Trash rack on WS headwall.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	11.60	Rating **	M	Issue No.	127
LM End	11.60	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.442639 °	39.442639 °
				-121.760070 °	-121.760070 °
DWR ID	16333				

Comment Code

Inspector Comment

DS_ID:16333
FS_ID:54989
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.
FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe angled through the levee, 11.3 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends. Crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 145). [Additional Reference(s): DWR Levee Log, 1993 (HLM 11.78). USACE Sacramento O&M Manual 519, June 1962 (HLM 11.78), listed as 60-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 28.2, STA 504+71E, page 9, 28 of 31 electronic file, As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:16:00 PM

Photo 1 of 3 : UCIP_SP_2020_54989_66934.jpg



Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	11.60	Rating **	M	Issue No.	127 (cont)
LM End	11.60	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.442639 °	39.442639 °
				-121.760070 °	-121.760070 °
DWR ID	16333				

Photo 2 of 3 : UCIP_SP_2020_54989_66932.jpg



WS slide gate with owner information.

LM Start	11.60	Rating **	M	Issue No.	127 (cont)
LM End	11.60	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54989_66930.jpg



Trash rack on WS headwall.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	128
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.435169 °	39.435169 °	
			-121.765290 °	-121.765290 °	
DWR ID	16334				

Comment Code

Inspector Comment

DS_ID:16334
FS_ID:56091
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this crossing. Irrigation siphon crosses under Cherokee Canal and Unit 2 levee at DSID 16385. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 WS pipe end still unknown- try to locate using GPR/ utility locator. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Cannot locate the WS pipe end. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition but could not locate the WS pipe end.07/13/2015 New screw gate installed inside the WS standpipe. 05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe.04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylights after WS slope is cleared.
FIELD_STRUCT_DESC: 30-inch corrugated metal siphon pipe through the levee, 11 feet below the crown. Pipe size changes from 30-inch pipe through levee to a 24-inch pipe underneath the canal. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.35). USACE Sacramento O&M Manual 519, June 1962 (HLM 12.37), listed as 30-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 24.1, STA 473+86E, page 9, 24.1 of 31 electronic file, listed as combination of new 30-inch section pipe through the levee and existing 24-inch concrete siphon pipe through the channel (Keller Siphon structure, irrigation facilities); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:17:00 PM

Photo 1 of 3 : UCIP_SP_2020_56091_66940.jpg



Overview of levee crown at crossing looking downstream.

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	128 (cont)
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.435169 °	39.435169 °
				-121.765290 °	-121.765290 °
DWR ID	16334				

Photo 2 of 3 : UCIP_SP_2020_56091_66936.jpg



View of Ws slope and channel.

LM Start	12.19	Rating **	M	Issue No.	128 (cont)
LM End	12.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56091_66939.jpg



Slide gate located on WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	129
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.435152 °	39.435152 °
				-121.765300 °	-121.765300 °
DWR ID	16335				

Comment Code

Inspector Comment

DS_ID:16335
FS_ID:54993
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 LS slope has been cleared of vegetation and is in good condition.04/18/2012 Limited inspection on LS slope due to dry vegetation. Need photos of cleared LS slope.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 144). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.36). USACE Sacramento O&M Manual 519, June 1962 (HLM 12.38), listed as 36-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, STA unk, page 9 of 31 electronic file, As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:17:00 PM

Photo 1 of 3 : UCIP_SP_2020_54993_66949.jpg



Overview of levee crown at crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	129 (cont)
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.435152 °	39.435152 °	
			-121.765300 °	-121.765300 °	
DWR ID	16335				

Photo 2 of 3 : UCIP_SP_2020_54993_66947.jpg



View from levee crown of WS slope and channel.

LM Start	12.19	Rating **	M	Issue No.	129 (cont)
LM End	12.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54993_66948.jpg



Water side screw gate located near crown hinge

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.74	Rating **	M	Issue No.	130
LM End	12.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.428070 °	39.428070 °
				-121.770080 °	-121.770080 °
DWR ID	16336				

Comment Code

Inspector Comment

DS_ID:16336
FS_ID:54994
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing and slide gate is still missing from the WS CMP riser. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Slide gate still missing from inside of WS standpipe. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Slide gate still missing from inside the WS standpipe. (DWR Sutter Yard-A.Freitag)04/28/2016 Slide gate was removed from inside the WS standpipe.07/13/2015 New screw gate installed on the WS pipe end in the irrigation ditch.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.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. 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 519, June 1962 (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_2020_54994_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 N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.74	Rating **	M	Issue No.	130 (cont)
LM End	12.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.428070 °	39.428070 °
				-121.770080 °	-121.770080 °
DWR ID	16336				

Photo 2 of 3 : UCIP_SP_2020_54994_66959.jpg



View of WS slope.

LM Start	12.74	Rating **	M	Issue No.	130 (cont)
LM End	12.74	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54994_66951.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.33	Rating **	M	Issue No.	131
LM End	13.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.420667 °	39.420667 °
				-121.775700 °	-121.775700 °
DWR ID	16337				

Comment Code

Inspector Comment

DS_ID:16337
FS_ID:54996
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Ws pipe end was submerged but crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 New screw gate installed inside of WS standpipe.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.1 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.53). USACE Sacramento O&M Manual 519, June 1962 (HLM 13.53), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, 31.2, STA 359+08W, page 8, 31 of 31 electronic file, listed as 24-inch CMP pipe through the levee; As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/27/2019 2:19:00 PM

Photo 1 of 3 : UCIP_SP_2020_54996_66966.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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.33	Rating **	M	Issue No.	131 (cont)
LM End	13.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.420667 °	39.420667 °
				-121.775700 °	-121.775700 °
DWR ID	16337				

Photo 2 of 3 : UCIP_SP_2020_54996_66963.jpg



View of WS slope.

LM Start	13.33	Rating **	M	Issue No.	131 (cont)
LM End	13.33	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54996_66967.jpg



View of WS slope and channel.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.76	Rating **	M	Issue No.	132
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:54997
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 WS flap gate has been replaced. LS outlet still has a lot of vegetation, but overall levee integrity looks good at time of this inspection.
Downgrading to Non-Urgent from Urgent due to fixed flap gate and current levee condition (D. Sanoski - DWR UCIP).06/15/2017 Not abandoned- WS flap gate was dug out and opened draining water from the LS ditch. WS flap gate is heavily corroded and has a broken hinge-needs to be replaced. LS is still very overgrown and needs to be cleared. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)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. (DWR Sutter Yard- A.Freitag)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.07/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutback.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.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.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe angled through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.96). USACE Sacramento O&M Manual 519, June 1962 (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_2020_54997_66970.jpg



WS headwall and flap 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.76	Rating **	M	Issue No.	132 (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_2020_54997_66971.jpg



View of channel at crossing.

LM Start	13.76	Rating **	M	Issue No.	132 (cont)
LM End	13.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54997_66969.jpg



Tree fallen at LS headwall.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.77	Rating **	M	Issue No.	133
LM End	13.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.416756 °	39.416756 °
				-121.782060 °	-121.782060 °
DWR ID	16339				

Comment Code

Inspector Comment

DS_ID:16339
FS_ID:54998
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, crossing has been abandoned. Need to update crossing type from Drainage to Irrigation. Crossing was used as a irrigation line and not drainage. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Abandoned- still only the structure on the WS shoulder found. (DWR Sutter Yard- A.Freitag)11/17/2016 Abandoned. (DWR Sutter Yard- A.Freitag)05/03/2016 ABANDONED CROSSING07/13/2015 Abandoned crossing. Slide gate is buried on the WS.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Non-functional crossing-buried slide gate on WS. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photo of cleared WS & LS slopes or toe. This crossing is listed in the USACE periodic inspection report as Corp's Inspection ID# USACE_CESPK_M13D_2011_p_0352 for abandoned gate on WS slope.
FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel irrigation pipe through the levee, 3 feet below the crown. Gate valve on the waterside (WS) slope. 0.25-inch steel plate welded on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.97). USACE Sacramento O&M Manual 519, June 1962 (HLM 13.97), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact page and 24.1, STA 334+60W, page 7, 24 of 31 electronic file, listed as 12-inch steel pipe with welded 1/4-inch steel plate on both ends of the pipe (WS and LS)]
FS Date: 8/27/2019 2:20:00 PM

Photo 1 of 3 : UCIP_SP_2020_54998_66972.jpg



Buried slide gate on the 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.77	Rating **	M	Issue No.	133 (cont)	
LM End	13.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.416756 °	39.416756 °	
				-121.782060 °	-121.782060 °	
DWR ID	16339					

Photo 2 of 3 : UCIP_SP_2020_54998_66973.jpg



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

LM Start	13.77	Rating **	M	Issue No.	133 (cont)
LM End	13.77	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54998_80558.jpg



WS view: pipe section capped off on WS.

LM Start	14.22	Rating **	C	Issue No.	59
LM End	14.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.412726 °	39.412726 °
				-121.788658 °	-121.788658 °
DWR ID	DWR_MA0013_01_f _ 2016_59				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the landside slope.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	14.58	Rating **	U	Issue No.	134
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:54999
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Urgent due to pipe integrity and levee integrity issues. Previously noted holes on the pipe collar located at WS have been sealed using splash zone epoxy. Two holes (possible sink holes) were observed behind WS concrete headwall. Recommend internal inspection of pipe through levee to determine if sink holes are attributed to holes in pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 WS pipe unable to be inspected due to heavy vegetation at inlet, so assume same as last inspection. Noticed a long crack a couple feet above WS headwall that could be of concern; possible future slough if soil gets saturated during next high water event and could be a sign of internal pipe degradation. LS outlet and slope looked good. Urgent due to long crack, obstructed inspection view of WS inlet, and 2016 photos of holes in pipe (D. Sanoski - DWR UCIP).06/15/2017 WS pipe end still showing heavy signs of corrosion and deterioration with visible holes between the concrete headwall and flap gate flange. Pipe was almost 100% full of water so could not visually inspect inside of the pipe to see if theres any damage inside of the levee segment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)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. (DWR Sutter Yard- A Freitag)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. (DWR Sutter Yard - a Freitag)07/13/2015 Both sides of crossing were underwater at the time of inspection. (DWR Sutter Yard - a Freitag)05/22/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/03/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)07/15/2013 Slopes have been cleared of vegetation and are in good condition. WS flap gate is still lodged open. (DWR Sutter Yard - a Freitag)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. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 14.79). USACE Sacramento O&M Manual 519, June 1962 (HLM 14.79), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact

Photo 1 of 3 : UCIP_SP_2020_54999_66976.jpg



Headwall and flapgate located on water side of levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

page, STA 293+17W, page 7 of 31 electronic file, listed as 36-inch CMP]

FS Date: 8/27/2019 2:20:00 PM

LM Start	14.58	Rating **	U	Issue No.	134 (cont)
LM End	14.58	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_54999_66974.jpg



Headwall and flapgate located on water side of levee

LM Start	14.58	Rating **	U	Issue No.	134 (cont)
LM End	14.58	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54999_66975.jpg



Head wall and screw gate located on land side of levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	14.91	Rating **	M	Issue No.	135
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:55000
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.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.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 15.12). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55000_66981.jpg



WS headwall and flapgate

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	14.91	Rating **	M	Issue No.	135 (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_2020_55000_66980.jpg



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

LM Start	14.91	Rating **	M	Issue No.	135 (cont)
LM End	14.91	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55000_66982.jpg



WS slope cleared of vegetation

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

Photo 1 of 1 : SP_2020_MA0013_300_57_20200226_00008.jpg



View of slope instability along the landside slope.

*** Location**

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

**** Rating**

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

+ Issue Type

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

Sutter Maintenance Yard Maintenance Area 0013

Page 104 of 119

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.72	Rating **	M	Issue No.	136 (cont)
LM End	15.72	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.399051 °	39.399051 °	
			-121.810550 °	-121.810550 °	
DWR ID	16364				

Photo 2 of 3 : UCIP_SP_2020_56092_66987.jpg



View of WS.

LM Start	15.72	Rating **	M	Issue No.	136 (cont)
LM End	15.72	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56092_66986.jpg



View of headwall within channel.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	137
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:56093
EP_NO: 11805B
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, sloughing/erosion observed on the LS toe during inspection. Recommend monitoring to determine progression of sloughing/erosion. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Both pipe ends submerged during site visit. LS ditch near pipe end is heavily vegetated and covering the pipe end. There is some erosion happening at the LS levee toe but this is more of a ditch problem and not a problem with the pipe. (DWR Sutter Yard- A.Freitag)11/17/2016 Both pipe ends underwater at time of inspection. (DWR Sutter Yard- A.Freitag)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.07/13/2015 LS inlet still underwater. WS screw gate appears in good condition. Wooden walkway to the screw gate needs repairs.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.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.
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_2020_56093_66993.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	137 (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_2020_56093_66995.jpg



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

LM Start	15.77	Rating **	M	Issue No.	137 (cont)
LM End	15.77	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56093_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	138
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:56094
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Structure is referenced in Permit Number 11805. Need to pull permit to review details. Need to update structure description to reference correct permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.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.
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 519, June 1962 (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_2020_56094_74500.jpg



WS view of structure.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	138 (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_2020_56094_74503.jpg



View of crossing and panels attached to concrete walls.

LM Start	16.19	Rating **	M	Issue No.	138 (cont)
LM End	16.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56094_74501.jpg



LS view of structure

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

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.52	Rating **	M	Issue No.	56
LM End	16.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.391675 °	39.391675 °
				-121.821932 °	-121.821932 °
DWR ID	DWR_MA0013_01_f _ 2016_56				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

No Photos

LM Start	16.96	Rating **	M	Issue No.	81
LM End	18.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.387644 °	39.373427 °
				-121.828223 °	-121.850438 °
DWR ID	DWR_MA0013_01_s_2020_81				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_300_81_20200415_00182.jpg



View of the vegetation along the waterside slope. Spring 2020.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.18	Rating **	M	Issue No.	139
LM End	17.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385540 °	39.385540 °
				-121.831280 °	-121.831280 °
DWR ID	16371				
Comment Code					
Inspector Comment					
DS_ID:16371 FS_ID:54928 EP_NO: 3511 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/27/2019 Record remains Non-Urgent, unable to determine status of crossing. Crossing not found. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Unable to locate. (DWR Sutter Yard- A.Freitag)11/17/2016 Unable to locate. (DWR Sutter Yard- A.Freitag)05/03/2016 Unable to locate.07/13/2015 Unable to locate.05/22/2014 Same as last inspection.12/03/2013 Unable to locate.07/15/2013 Same as last inspection. Unable to locate.04/18/2012 Unable to determine if cable is still in use, per permit records indicate communication cable was installed in 1961, 1968 USACE requested to abandon line, 1974 USACE communication is not abandoned. Cable crosses multiple levees. FIELD_STRUCT_DESC: U.S. Army communication cable through the levee, 3 feet below the crown. (Permit No. 3511, 1961 - US Army Engineer District) [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.42)] FS Date: 8/27/2019 2:58:00 PM					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	140
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:55968
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issue. Minor scour is present at the concrete wingwalls located on LS. Need to contact owner to address maintenance issue (minor scour). No permit has been identified authorizing pipe. Structure is referenced in permit number 11805. Need to pull permit to review details and update structure description to reference correct permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 42 inch pipes transport water to LS sump. Quantity (4) irrigation pumps push water to adjacent irrigation ditches. WS crossing underwater.
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 519, June 1962 (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_2020_55968_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	140 (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_2020_55968_67010.jpg



View of WS headwall.

LM Start	17.19	Rating **	M	Issue No.	140 (cont)
LM End	17.19	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55968_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	141
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:55969
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issue. Minor scour is present at the concrete wingwalls located on LS. Need to contact owner to address maintenance issue (minor scour). No permit has been identified authorizing pipe. Structure is referenced in permit number 11805. Need to pull permit to review details and update structure description to reference correct permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 42 inch pipes transport water to LS sump. Quantity (4) irrigation pumps push water to adjacent irrigation ditches. WS crossing underwater.
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 519, June 1962 (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_2020_55969_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.19	Rating **	M	Issue No.	141 (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_2020_55969_67002.jpg



View of WS headwall.

LM Start	17.19	Rating **	M	Issue No.	141 (cont)
LM End	17.19	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55969_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	142
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:55006
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Flap gate bolted shut. Hinges seem very stiff to operate as gate will not fully close and has about a 1/2" gap near the top. Land owner claims the gate leaks during high water times. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.05/22/2014 Same as last inspection.12/03/2013 Sediment was dug out from WS flap gate allowing it to open.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.04/18/2012 Limited inspection on WS and LS slope due to dense vegetation and steep slopes. Need photos of cleared WS & LS slopes.
FIELD_STRUCT_DESC: 24-inch 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 519, June 1962 (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_2020_55006_67017.jpg



View of WS slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	142 (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_2020_55006_67019.jpg



View of WS headwall and flap gate.

LM Start	17.23	Rating **	M	Issue No.	142 (cont)
LM End	17.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55006_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.24	Rating **	M	Issue No.	143
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:55007 EP_NO: 10918 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issue. Marker is no longer available on WS side. Recommend contacting owner to determine if line is still in use. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 Crossing is in god condition.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection. FIELD_STRUCT_DESC: 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. (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.	143 (cont)
LM End	17.24	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55007_67024.jpg



Underground telephone line marker.

Photo 2 of 3 : UCIP_SP_2020_55007_67025.jpg



Underground telephone cable splice box.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.24	Rating **	M	Issue No.	143 (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_2020_55007_67023.jpg



Underground telephone line crossing at bridge

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

No Photos

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

Unit Cover Sheet

Spring 2020 Levee Inspection Results

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	4/9/2020 - 4/9/2020			
DWR Inspector	Makar Sokol			
Accompanied By	Bob Duffey Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.05	Rating **	M	Issue No.	912
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:55415 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)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. (DWR Sutter Yard- A Freitag)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. (DWR UCIP - omagana)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. (DWR Sutter Yard - a Freitag)07/01/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - a Freitag)05/29/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/09/2013 4in. Pipe was removed and flap gate is closed and ready for high water. (DWR Sutter Yard - a Freitag)07/10/2013 Same as last inspection. Urgency rating carry over from last entry. (DWR Sutter Yard - a Freitag)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. (DWR UCIP - omagana) 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 519, June 1962 (HLM 0.04), listed as 24-inch pipe]. FS Date: 8/28/2019 12:55:00 PM					

Photo 1 of 3 : UCIP_SP_2020_55415_45640.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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.05	Rating **	M	Issue No.	912 (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_2020_55415_45642.jpg



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

LM Start	0.05	Rating **	M	Issue No.	912 (cont)
LM End	0.05	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55415_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

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

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.58	Rating **	M	Issue No.	913
LM End	0.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.566479 °	39.566479 °
				-121.702430 °	-121.702430 °
DWR ID	16398				

Comment Code

Inspector Comment

DS_ID:16398
FS_ID:55970
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe and modifications. Structure type has been changed from drainage to irrigation. Mr. Sohnrey property owner mentioned that this pipe is being used as irrigation line. DMP phase 1 internal inspection did not show any major defects through the section inspected (about 30 feet). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS ditch at outlet is getting over grown with vegetation. WS near concrete standpipe is overgrown with vegetation. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)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. (DWR Sutter Yard-AFreitag)04/27/2016 Pipe gets used by the landowner to irrigate his rice fields. It appeared to be in good condition.07/01/2015 LS pipe end is still about 50% full of sediment.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.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.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.
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 519, June 1962 (HLM 0.57), listed as 24-inch pipe]
FS Date: 8/28/2019 1:25:00 PM

Photo 1 of 3 : UCIP_SP_2020_55970_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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.58	Rating **	M	Issue No.	913 (cont)
LM End	0.58	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.566479 °	39.566479 °	
			-121.702430 °	-121.702430 °	
DWR ID	16398				

Photo 2 of 3 : UCIP_SP_2020_55970_67048.jpg



View of WS slope and toe.

LM Start	0.58	Rating **	M	Issue No.	913 (cont)
LM End	0.58	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55970_67045.jpg



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

LM Start	0.70	Rating **	M	Issue No.	86
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.564675 °	39.552131 °
				-121.702382 °	-121.704779 °
DWR ID	DWR_MA0013_02_s_2020_86				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.60	Rating **	U	Issue No.	56
LM End	1.63	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.552195 °	39.551731 °
				-121.704786 °	-121.704721 °
DWR ID	DWR_MA0013_02_s_2016_56				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_301_56_20200226_00007.jpg



View of the agricultural ditch along the landside toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.67	Rating **	M	Issue No.	914
LM End	1.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551439 °	39.551439 °
				-121.705230 °	-121.705230 °
DWR ID	16833				

Comment Code

Inspector Comment

DS_ID:16833
FS_ID:55091
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. No other issues were recorded during inspection. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 Crossing appears to be in good condition. Pump was running during site visit. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.07/01/2015 Same as last inspection.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 Same as last inspection.04/19/2012 This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0106 for pump station. Permit 3953 is not associated to this crossing. This 16 inch crossing is listed under the USACE O&M Manual with pump on WS. Permit information was incorrect in USACE's report.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee at an unknown depth below the crown. Groundwater pump is located on the waterside (WS). Power pole located on the landside (LS) of levee. Power runs through the levee to pump meter located on the WS.
[Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 1.67), listed as 16-inch pipe]
FS Date: 8/28/2019 1:25:00 PM

LM Start	1.67	Rating **	M	Issue No.	914 (cont)
LM End	1.67	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55091_67055.jpg



Overview looking south

Photo 2 of 3 : UCIP_SP_2020_55091_67054.jpg



Pump located on water side of levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.67	Rating **	M	Issue No.	914 (cont)
LM End	1.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551439 °	39.551439 °
				-121.705230 °	-121.705230 °
DWR ID	16833				

Photo 3 of 3 : UCIP_SP_2020_55091_67053.jpg



Discharge pipe and distribution box located on land side of levee

LM Start	1.67	Rating **	M	Issue No.	85
LM End	1.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.551368 °	39.548161 °
				-121.705344 °	-121.706047 °
DWR ID	DWR_MA0013_02_s_2020_85				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_301_85_20200415_00178.jpg



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

LM Start	1.67	Rating **	M	Issue No.	87
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.551368 °	39.542429 °
				-121.705344 °	-121.706062 °
DWR ID	DWR_MA0013_02_s_2020_87				
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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.70	Rating **	M	Issue No.	915
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:55416
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS slide gate stem is bent and the gate appears as if it will not open. LS inlet is becoming heavily vegetated next to rice field. WS flap gate is blocked shut by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 LS screw gate still bent and in-operable. (DWR Sutter Yard- A.Freitag)04/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition.07/01/2015 LS screw gate frame is still twisted and hindering the gate from opening.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.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.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.
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 issued 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 519, June 1962 (HLM 1.70), listed as 24-inch pipe]
FS Date: 8/28/2019 1:25:00 PM

Photo 1 of 3 : UCIP_SP_2020_55416_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.70	Rating **	M	Issue No.	915 (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_2020_55416_67058.jpg



View of flap gate on WS.

LM Start	1.70	Rating **	M	Issue No.	915 (cont)
LM End	1.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55416_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	916
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:56150
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 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. (DWR Sutter Yard- AFreitag)11/18/2016 Sediment dug out from in front of flap gate. Gate can now function properly. (DWR Sutter Yard- AFreitag)4/27/2016 WS flap gate still blocked from opening by sediment buildup.7/01/2015 New screw gate installed on the LS. WS flap gate is still blocked from opening by sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 Sediment is built up against WS flap gate not allowing it to open. Handle for LS slide gate is still missing.4/19/2012 Handle missing on slide gate.
FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.53). USACE Sacramento O&M Manual 519, June 1962 (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_2020_56150_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	916 (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_2020_56150_67068.jpg



View of WS slope.

LM Start	2.53	Rating **	M	Issue No.	916 (cont)
LM End	2.53	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56150_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	917
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:56095
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS inlet was underwater. WS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.07/01/2015 New screw gate installed on the LS. WS appears to be in good condition.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.53). USACE Sacramento O&M Manual 519, June 1962 (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

LM Start	2.53	Rating **	M	Issue No.	917 (cont)
LM End	2.53	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_56095_67075.jpg



Overview at levee crown looking south

Photo 2 of 3 : UCIP_SP_2020_56095_67074.jpg



View of 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	917 (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 3 of 3 : UCIP_SP_2020_56095_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.62	Rating **	M	Issue No.	918
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:56096
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Sediment blocking LS slide gate from closing fully. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 Sediment still blocking screw gate from fully closing. (DWR Sutter Yard- A.Freitag)04/27/2016 LS slide gate is full of sediment and needs to be dug out so gate can close fully.07/01/2015 LS screw gate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.05/29/2014 Same as last inspection.12/09/2013 WS flap gate was closed but LS slide gate is heavily vegetated and blocked from closing by sediment.07/10/2013 Same as last inspection.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).
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. Structure used to drain water from Nelson Shippe Road. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.63). USACE Sacramento O&M Manual 519, June 1962 (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_2020_56096_67077.jpg



Overview looking south from left levee

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.62	Rating **	M	Issue No.	918 (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_2020_56096_67076.jpg



Headwall and flap gate located on WS.

LM Start	2.62	Rating **	M	Issue No.	918 (cont)
LM End	2.62	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56096_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 N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.63	Rating **	M	Issue No.	919	
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:55093 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.07/01/2015 WS flap gate is partially blocked by sediment and needs to be cleaned.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition.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. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.64). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55093_67087.jpg



Overview at levee crown looking south

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.63	Rating **	M	Issue No.	919 (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_2020_55093_67084.jpg



Headwall and flap gate located on WS

LM Start	2.63	Rating **	M	Issue No.	919 (cont)
LM End	2.63	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55093_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	920
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:55094
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Both inlet/outlet were underwater during inspection. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 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. (DWR Sutter Yard- A.Freitag)11/18/2016 LS screw gate closed but partially buried. WS flap gate was half submerged for inspection. (DWR Sutter Yard- A.Freitag)04/27/2016 Both gates were underwater for inspection.07/01/2015 WS flap gate is partially held open by sediment and needs to be dug out to allow it to fully close.05/29/2014 Same as last inspection.12/09/2013 Both gates were out of water and in good condition.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.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.65). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55094_67090.jpg



Overview looking south from left levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	920 (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_2020_55094_67091.jpg



Headwall and flap gate located on WS.

LM Start	2.65	Rating **	M	Issue No.	920 (cont)
LM End	2.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55094_67092.jpg



WS headwall and flap gate.

LM Start	3.43	Rating **	M	Issue No.	88
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526115 °	39.534448 °
				-121.706692 °	-121.690426 °
DWR ID	DWR_MA0013_02_s_2020_88				
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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.59	Rating **	M	Issue No.	921
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:55095

EP_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

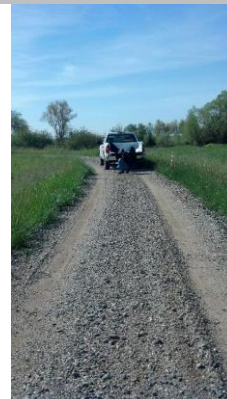
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Structure is buried and non-functional. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Abandoned- LS slide gate completely buried in rice field and WS flap gate almost fully buried. (DWR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

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.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.

FIELD_STRUCT_DESC: *ABANDONED* 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 519, June 1962 (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_2020_55095_67094.jpg



Overview looking south from left levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.59	Rating **	M	Issue No.	921 (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_2020_55095_67095.jpg



Flap gate submerged in water on WS of levee

LM Start	3.59	Rating **	M	Issue No.	921 (cont)
LM End	3.59	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55095_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.65	Rating **	M	Issue No.	922
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:55096
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends submerged but appear to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition. New slide gate installed on LS.07/01/2015 Both gates were still submerged in water. Levee slopes were in good condition.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.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.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.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.67). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55096_67102.jpg



Overview looking south on left levee

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.65	Rating **	M	Issue No.	922 (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_2020_55096_67103.jpg



Headwall and flap gate located on WS.

LM Start	3.65	Rating **	M	Issue No.	922 (cont)
LM End	3.65	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55096_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.83	Rating **	M	Issue No.	923
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:55097
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends submerged but crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. It appears that this crossing does not require a slide gate. (DWR Sutter Yard- A.Freitag)04/27/2016 LS slide gate was still missing. Rest of crossing appears to be in good condition.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.05/29/2014 Same as last inspection.12/09/2013 Pulled sticks from WS flap gate to allow it to close. Ls gate is still missing.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.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.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.85). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55097_67107.jpg



Overview looking south on left levee

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

Levee Inspection Report By Mile - Spring 2020

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

Photo 2 of 3 : UCIP_SP_2020_55097_67108.jpg

A photograph showing a concrete culvert structure with a metal gate partially submerged in water. The structure is surrounded by grass and a rocky bank. The water is murky and brown. The gate is made of metal and has a circular opening. The concrete structure is made of two slanted walls meeting at a point. The surrounding area is a mix of green grass and dry, brownish vegetation. The ground around the culvert is rocky and uneven.

LM Start	3.83	Rating **	M	Issue No.	923 (cont)
LM End	3.83	Issue Type +	Ma	Location *	

A photograph of a small, muddy stream flowing through a grassy field. The stream is brown and murky, with some reeds and tall grasses growing along its banks. The surrounding landscape is a mix of green grass and brown, dry vegetation. In the background, there are rolling hills and a blue sky with wispy white clouds. The overall scene is a natural, rural landscape.

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										

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.17	Rating **	M	Issue No.	924
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:55098
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent due to potential levee threat. Minor scour was visible on both WS and LS toe. No permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 Both ends submerged during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/18/2016 Both pipe ends underwater for this inspection. (DWR Sutter Yard- A Freitag)04/27/2016 Both pipe ends were underwater for inspection.07/01/2015 Both pipe ends and gates were fully submerged.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.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.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.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. Concrete sump area with flash boards to drain farmers field is located on farmer's property near drain inlet. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.18). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55098_67115.jpg



Overview looking east on right bank of Cottonwood

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.17	Rating **	M	Issue No.	924 (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_2020_55098_67116.jpg



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

LM Start	4.17	Rating **	M	Issue No.	924 (cont)
LM End	4.17	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55098_67113.jpg



Overview of LS screw gate and concrete sump structure.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.65	Rating **	M	Issue No.	925
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:55099
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS Slide gate mostly underwater due to rice field being flooded but crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.07/01/2015 Crossing appears to be in good condition. No noticeable issues to report.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 WS slope has been cleared of vegetation and is in good condition.04/19/2012 Limited inspection due to dense vegetation on WS slope. Need photos of clear WS slope.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.6 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.69). USACE Sacramento O&M Manual 519, June 1962 (HLM 4.69), listed as 24-inch pipe]
FS Date: 8/28/2019 3:31:00 PM

LM Start	4.65	Rating **	M	Issue No.	925 (cont)
LM End	4.65	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_55099_67119.jpg



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

Photo 2 of 3 : UCIP_SP_2020_55099_67122.jpg



Headwall and 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.65	Rating **	M	Issue No.	925 (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 3 of 3 : UCIP_SP_2020_55099_67123.jpg



View of channel at crossing.

LM Start	4.78	Rating **	A/W	Issue No.	89
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.534475 °	39.534475 °
				-121.690421 °	-121.690421 °
DWR ID	DWR_MA0013_02_s_2020_89				
Comment Code					
E1 : Note and monitor erosion site.					
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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.01	Rating **	M	Issue No.	926
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:56098
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 WS mostly submerged but crossing appears to be in good condition.(DWR Sutter Yard-AFreitag)11/18/2016 Crossing appears to be in good condition. Pipe is a 30" cmp. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.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.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.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.
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.06), listed as 3-inch pipe. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.06), listed as 30-inch pipe]
FS Date: 8/28/2019 3:04:00 PM

Photo 1 of 3 : UCIP_SP_2020_56098_67131.jpg



Overview looking west on the left levee of Cottonwood

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.01	Rating **	M	Issue No.	926 (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_2020_56098_67129.jpg



Headwall and flap gate located on WS.

LM Start	5.01	Rating **	M	Issue No.	926 (cont)
LM End	5.01	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56098_67126.jpg



View of channel at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.03	Rating **	M	Issue No.	927
LM End	5.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526400 °	39.526400 °
				-121.688610 °	-121.688610 °
DWR ID	16837				

Comment Code

Inspector Comment

DS_ID:16837
FS_ID:56105
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no records were obtained to determine line status. Need to contact owner to obtain maintenance records. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Markers are present. Crossing is in good condition.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 New carsonite marker installed with concrete access box on LS about 10 feet east of highway 99. Depth is still unknown.04/24/2012 Markers not present or visible for hazard line (Health & Safety Issue) unknown depth. Owner is not compliant with Title 23. USA flag located on LS however not visible. No permanent markers available only underground service alert (USA) flags. Active line? Will need to contact PG&E and find out the status of line through levee.
FIELD_STRUCT_DESC: 6-inch steel gas line through the levee unknown depth below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 5.08), listed as 6-inch pipe]
FS Date: 8/28/2019 3:05:00 PM

LM Start	5.03	Rating **	M	Issue No.	927 (cont)
LM End	5.03	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56105_67132.jpg



Overview looking west from the left levee of Cottonwood

Photo 2 of 3 : UCIP_SP_2020_56105_67133.jpg



USA indicator located at land side of 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.03	Rating **	M	Issue No.	927 (cont)
LM End	5.03	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.526400 °	39.526400 °	
			-121.688610 °	-121.688610 °	
DWR ID	16837				

Photo 3 of 3 : UCIP_SP_2020_56105_67134.jpg



USA indicator located at land side of levee

LM Start	5.06	Rating **	M	Issue No.	928
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:56100
EP_NO: 6084
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent due to maintenance issues. Sign knocked over. Unable to determine if line has been abandoned. Need to contact owner to make them aware of the sign knocked over and to determine whether line is still in use. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing is in good condition.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.
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

Photo 1 of 3 : UCIP_SP_2020_56100_67136.jpg



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

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.06	Rating **	M	Issue No.	928 (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 2 of 3 : UCIP_SP_2020_56100_67137.jpg



Underground telephone line looking North towards highway.

LM Start	5.06	Rating **	M	Issue No.	928 (cont)
LM End	5.06	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56100_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.09	Rating **	M	Issue No.	929	
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:56101 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears to be in good condition. No apparent issues to report.05/29/2014 Same as last inspection.12/9/2013 Same as last inspection.07/09/2013 WS and LS slopes have been cleared of vegetation and are in good condition. Slide gate on LS has been replaced.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. 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 519, June 1962 (HLM 5.13), listed as 24-inch pipe] FS Date: 8/28/2019 3:11:00 PM						

Photo 1 of 3 : UCIP_SP_2020_56101_67138.jpg



Overview of levee crown at crossing looking west.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.09	Rating **	M	Issue No.	929 (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_2020_56101_67140.jpg



Headwall and flap gate located on WS.

LM Start	5.09	Rating **	M	Issue No.	929 (cont)
LM End	5.09	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56101_67141.jpg



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

LM Start	5.11	Rating **	M	Issue No.	90
LM End	5.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526958 °	39.524171 °
				-121.689629 °	-121.699110 °
DWR ID	DWR_MA0013_02_s_2020_90				
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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.11	Rating **	M	Issue No.	91
LM End	5.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526959 °	39.523877 °
				-121.689629 °	-121.699697 °
DWR ID	DWR_MA0013_02_s _ 2020_91				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.29	Rating **	M	Issue No.	930	
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:56102 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Internal inspection under DMP Phase 1 is still pending, both inlet and outlet are underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 WS fully submerged and LS slide gate mostly buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)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. (DWR Sutter Yard- AFreitag)04/27/2016 LS slide gate is blocked by vegetation. Pipe appears to not be used.06/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.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. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.34). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.34), listed as 30-inch pipe] FS Date: 8/28/2019 3:22:00 PM						

Photo 1 of 3 : UCIP_SP_2020_56102_67146.jpg



Overview of crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.29	Rating **	M	Issue No.	930 (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_2020_56102_67149.jpg



View of WS headwall with dense vegetation in channel.

LM Start	5.29	Rating **	M	Issue No.	930 (cont)
LM End	5.29	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56102_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
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.36	Rating **	M	Issue No.	931
LM End	5.36	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525361 °	39.525361 °
				-121.693630 °	-121.693630 °
DWR ID	16410				

Comment Code

Inspector Comment

DS_ID:16410
FS_ID:56103
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe remains abandoned through the mid section of the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A.Freitag)11/18/2016 Abandoned pipe. It is still present on both sides of the levee and capped on the WS. (DWR Sutter Yard- A.Freitag)04/27/2016 Pipe appears abandoned. Should be removed.06/30/2015 Pipe still present with the cap on the waterside.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of clear slopes during next inspection. Metal plate bolted on pipe for closure on WS, open on LS.
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel pipe through the levee, 1.6 feet below the crown. Plate bolted on the waterside (WS) end. Open on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.41). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.41), listed as 6-inch pipe]
FS Date: 8/28/2019 3:15:00 PM

LM Start	5.36	Rating **	M	Issue No.	931 (cont)
LM End	5.36	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56103_67152.jpg



Overview of site

Photo 2 of 3 : UCIP_SP_2020_56103_67150.jpg



Capped irrigation pipe located on water side of levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.36	Rating **	M	Issue No.	931 (cont)
LM End	5.36	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525361 °	39.525361 °
				-121.693630 °	-121.693630 °
DWR ID	16410				

Photo 3 of 3 : UCIP_SP_2020_56103_67151.jpg



Irrigation crossing located on land side of levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	932
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:55106
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, unable to determine if crossing is in use. Need to audit record to determine if Permit No. 13170 is associated with 36-inch. Slide gate that is supposed to be located on the WS is still missing. Need to check permit 13170 to see if this pipe crossing is also part of permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends were underwater but it appears that the LS slide gate is still missing. (DWR Sutter Yard- A.Freitag)11/18/2016 LS slide gate still missing. Both pipe ends were submerged during inspection. (DWR Sutter Yard- A.Freitag)09/27/2016 Crossing has been downgraded from Urgent to Non-Urgent-flap gate on WS is present only LS gate missing. (DWR UCIP - omagana)04/27/2016 Both sides of pipe were underwater. Appears that LS gate is still missing. (DWR Sutter Yard - afreitag)06/30/2015 Slide gate still missing on the LS. WS appears to be in good condition. (DWR Sutter Yard - afreitag)05/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/09/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/09/2013 Same as last inspection. (DWR Sutter Yard - afreitag)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. (DWR Sutter Yard - omagana)
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 519, June 1962 (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_2020_55106_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	932 (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_2020_55106_67157.jpg



Headwall and flap gate on WS.

LM Start	5.80	Rating **	M	Issue No.	932 (cont)
LM End	5.80	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55106_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	933
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:55971
EP_NO: 13170
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, pipe appears to be part of a larger system and could have been modified. Flow meter labelled 30-58 located on the canal berm lines up with pipe crossing. Both inlet and outlet were underwater during inspection. Need to contact owner to determine purpose of pipe crossing. No other issues were recorded. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both pipe ends fully submerged during site visit but crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/18/2016 Crossing appears to be in good condition. Both pipe ends were submerged during inspection. (DWR Sutter Yard-AFreitag)04/27/2016 Both sides of crossing were underwater but appeared in good condition.06/30/2015 High water on both side of crossing still. Slopes appear in good condition. Both pipe ends and gates were submerged.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.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.
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_2020_55971_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.80	Rating **	M	Issue No.	933 (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_2020_55971_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.	933 (cont)
LM End	5.80	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55971_67160.jpg



Headwall and screw gate on land side of levee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.06	Rating **	M	Issue No.	934
LM End	6.06	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.522513 °	39.522513 °	
			-121.706010 °	-121.706010 °	
DWR ID	16412				

Comment Code

Inspector Comment

DS_ID:16412
FS_ID:54787
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition.(DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears in good condition. No noticeable issues to report.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photos of WS slope when cleared. Unable to find WS daylight point.
FIELD_STRUCT_DESC: [Western Canal Siphon] 1 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit 4 feet below the crown. Catwalk and guardrails around headwall. Debris catchment line located at the wings of the headwall. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.13). USACE Sacramento O&M Manual 519, June 1962 (HLM 6.13), listed as three 8-foot by 10-foot concrete conduit]
FS Date: 8/28/2019 3:26:35 PM

LM Start	6.06	Rating **	M	Issue No.	934 (cont)
LM End	6.06	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_54787_67164.jpg



Overview looking south from left levee

Photo 2 of 3 : UCIP_SP_2020_54787_67165.jpg



View of Western Canal Siphon (Richvale Siphon) 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.06	Rating **	M	Issue No.	934 (cont)	
LM End	6.06	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.522513 °	39.522513 °	
				-121.706010 °	-121.706010 °	
DWR ID	16412					

Photo 3 of 3 : UCIP_SP_2020_54787_67162.jpg



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

LM Start	6.06	Rating **	M	Issue No.	935
LM End	6.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522488 °	39.522488 °
				-121.706030 °	-121.706030 °
DWR ID	17373				

Comment Code

Inspector Comment

DS_ID:17373
 FS_ID:55108
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition.(DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears in good condition. No noticeable issues to report.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of WS slope when cleared. Unable to find WS outlet.
 FIELD_STRUCT_DESC: [Western Canal Siphon] 2 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit 4 feet below the crown. Catwalk and guardrails around headwall. Debris catchment line located at the wings of the headwall. All conduits are open. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.13). USACE Sacramento O&M Manual 519, June 1962 (HLM 6.13), listed as three 8-foot by 10-foot concrete conduit]
 FS Date: 8/28/2019 3:55:00 PM

Photo 1 of 3 : UCIP_SP_2020_55108_67169.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

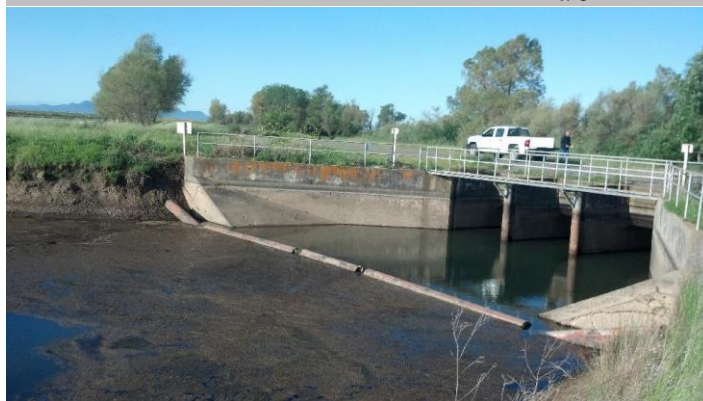
Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.06	Rating **	M	Issue No.	935 (cont)
LM End	6.06	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.522488 °	39.522488 °	
			-121.706030 °	-121.706030 °	
DWR ID	17373				

Photo 2 of 3 : UCIP_SP_2020_55108_67168.jpg



Debris catchment line across structure.

LM Start	6.06	Rating **	M	Issue No.	935 (cont)
LM End	6.06	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55108_67166.jpg



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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.07	Rating **	M	Issue No.	936
LM End	6.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522457 °	39.522457 °
				-121.706030 °	-121.706030 °
DWR ID	17374				

Comment Code

Inspector Comment

DS_ID:17374
FS_ID:56104
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears to be in good condition. No noticeable issues to report.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of WS slope when cleared. Unable to find WS outlet.
FIELD_STRUCT_DESC: [Western Canal Siphon] 3 of 3: 8-foot by 10-foot concrete irrigation conduit through the levee and channel. Top of concrete conduit 4 feet below the crown. Catwalk and guardrails around headwall. Debris catchment line located at the wings of the headwall. All conduits are open. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.13). USACE Sacramento O&M Manual 519, June 1962 (HLM 6.13), listed as three 8-foot by 10-foot concrete conduit]
FS Date: 8/28/2019 3:43:00 PM

LM Start	6.07	Rating **	M	Issue No.	936 (cont)
LM End	6.07	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56104_67172.jpg



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

Photo 2 of 3 : UCIP_SP_2020_56104_67171.jpg



Overview looking south from 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	
--	--	---	--	---	--

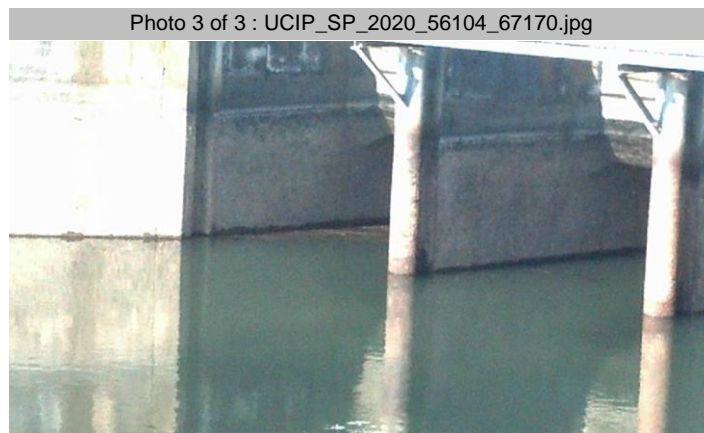
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.07	Rating **	M	Issue No.	936 (cont)	
LM End	6.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.522457 °	39.522457 °	
				-121.706030 °	-121.706030 °	
DWR ID	17374					



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

LM Start	6.09	Rating **	M	Issue No.	92
LM End	17.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.522042 °	39.403087 °
				-121.706103 °	-121.799785 °
DWR ID	DWR_MA0013_02_s_2020_92				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	6.09	Rating **	M	Issue No.	93
LM End	8.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.522042 °	39.489472 °
				-121.706104 °	-121.727539 °
DWR ID	DWR_MA0013_02_s_2020_93				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.18	Rating **	M	Issue No.	12
LM End	7.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.520843 °	39.502958 °
				-121.706345 °	-121.716953 °
DWR ID	DWR_MA0013_02_s_2012_12				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_301_12_20200226_00001.jpg



View of the agricultural ditch along the toe.

LM Start	7.18	Rating **	M	Issue No.	937	
LM End	7.18	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.507570 °	39.507570 °	
				-121.713870 °	-121.713870 °	
DWR ID	17518					
Comment Code						
Inspector Comment						
DS_ID:17518 FS_ID:54795 EP_NO: 5200B Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, unable to determine status of 36-inch pipe through levee. Need to contact owner to determine details regarding 36-inch pipe referenced in Permit No. 5200. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/18/2016 Unable to locate. (DWR Sutter Yard-AFreitag)04/27/2016 Unable to locate.06/30/2015 Unable to locate.05/29/2014 Same as last inspection.12/09/2013 Unable to locate.07/09/2013 Same as last inspection. Unable to locate.04/24/2012 Not found - Need to verify if there are any signs of the structure during next inspection when slopes are cleared. If not will need to coordinate with applicant regarding the status of this structure. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee embankment, unknown depth below the crown. (Permit No. 5200B, 1967 - Richvale Irrigation District) Additional permits related to this structure include Permit No. 5200 and 5200A. FS Date: 8/28/2019 3:55:43 PM						

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.15	Rating **	M	Issue No.	94
LM End	15.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.482734 °	39.418790 °
				-121.731611 °	-121.774338 °
DWR ID	DWR_MA0013_02_s _ 2020_94				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	938
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477542 °	39.477542 °
				-121.735080 °	-121.735080 °
DWR ID	16414				

Comment Code

Inspector Comment

DS_ID:16414
FS_ID:55114
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears in good condition. No noticeable issues to report.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/09/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Richvale Irrigation District Siphon] 1 of 3: 6-foot by 6.5-foot reinforced concrete irrigation culverts through the levee, 17.5 feet below the crown. Concrete "U" headwall with slots for flashboards on the landside (LS). Slide gate in gate well on downstream culvert on the waterside (WS) slope. Access well on downstream culvert 60 feet from the WS toe, manhole flush with the top of the ground. 36-inch corrugated metal pipe through the levee, 11.2 feet below the crown. Flap gate on the WS end. Concrete "U" headwalls on both ends. This pipe drains excess water from the District's canal into Cherokee Canal. The pipe runs through the levee on an angle and discharges opposite historic levee mile (HLM) 9.58. Richvale Irrigation District siphon crosses the channel and levee. [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.66). USACE Sacramento O&M Manual 519, June 1962 (HLM 9.66), listed as three 6-foot by 6.5-foot concrete conduit, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 650+00E, page 21 of 28 electronic file, listed as conduit]
FS Date: 8/28/2019 4:04:00 PM

Photo 1 of 3 : UCIP_SP_2020_55114_67212.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	938 (cont)
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477542 °	39.477542 °	
			-121.735080 °	-121.735080 °	
DWR ID	16414				

Photo 2 of 3 : UCIP_SP_2020_55114_67214.jpg



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

LM Start	9.55	Rating **	M	Issue No.	938 (cont)
LM End	9.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55114_67213.jpg



WS view, close up of access well located approximately 60 feet from WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	939
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477527 °	39.477527 °	
			-121.735100 °	-121.735100 °	
DWR ID	17522				

Comment Code

Inspector Comment

DS_ID:17522
FS_ID:55115
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears in good condition. No noticeable issues to report.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/09/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Richvale Irrigation District Siphon] 2 of 3: 6-foot by 6.5-foot concrete culvert through the levee, 17.5 feet below the crown. Concrete "U" headwalls with slots for flashboards on the landside (LS). Slide gate in gate well on downstream culvert on the waterside (WS) slope. Access well on downstream culvert 60 feet from the WS toe, manhole flush with the top of the ground. 36-inch corrugated metal pipe through the levee, 11.2 feet below the crown. Flap gate on the WS end. Concrete "U" headwalls on both ends. This pipe drains excess water from the District's canal into Cherokee Canal. The pipe runs through the levee on an angle and discharges opposite historic levee mile (HLM) 9.58. Richvale Irrigation District siphon crosses the channel and levee. [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.66). USACE Sacramento O&M Manual 519, June 1962 (HLM 9.66), listed as three 6-foot by 6.5-foot concrete conduit, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 650+00E, page 21 of 28 electronic file, listed as conduit]
FS Date: 8/28/2019 4:02:00 PM

Photo 1 of 3 : UCIP_SP_2020_55115_67231.jpg



Overview of crossing looking downstream at 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	939 (cont)
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477527 °	39.477527 °	
			-121.735100 °	-121.735100 °	
DWR ID	17522				

Photo 2 of 3 : UCIP_SP_2020_55115_67233.jpg



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

LM Start	9.55	Rating **	M	Issue No.	939 (cont)
LM End	9.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55115_67234.jpg



WS view, close up of access well located approximately 60 feet from WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	940
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477513 °	39.477513 °
				-121.735130 °	-121.735130 °
DWR ID	17523				

Comment Code

Inspector Comment

DS_ID:17523
FS_ID:55119
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears in good condition. No noticeable issues to report.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/09/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Richvale Irrigation District Siphon] 3 of 3: 6-foot by 6.5-foot concrete irrigation culvert through the levee, 17.5 feet below the crown. Concrete "U" headwalls with slots for flashboards on the landside (LS). Slide gate in gate well on downstream culvert on the waterside (WS) slope. Access well on downstream culvert 60 feet from the WS toe, manhole flush with the top of the ground. 36-inch corrugated metal pipe through the levee, 11.2 feet below the crown. Flap gate on the WS end. Concrete "U" headwalls on both ends. This pipe drains excess water from the District's canal into Cherokee Canal. The pipe runs through the levee on an angle and discharges opposite historic levee mile (HLM) 9.58. Richvale Irrigation District siphon crosses the channel and levee. [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.66). USACE Sacramento O&M Manual 519, June 1962 (HLM 9.66), listed as three 6-foot by 6.5-foot concrete conduit, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 650+00E, page 21 of 28 electronic file, listed as conduit]
FS Date: 8/28/2019 4:03:00 PM

Photo 1 of 3 : UCIP_SP_2020_55119_67265.jpg



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

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.55	Rating **	M	Issue No.	940 (cont)
LM End	9.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477513 °	39.477513 °	
			-121.735130 °	-121.735130 °	
DWR ID	17523				

Photo 2 of 3 : UCIP_SP_2020_55119_67263.jpg



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

LM Start	9.55	Rating **	M	Issue No.	940 (cont)
LM End	9.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55119_67267.jpg



WS view, close up of access well located approximately 60 feet from WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	941	
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:55120 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.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.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.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.07/09/2013 Same as last inspection. 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 519, June 1962 (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_2020_55120_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	941 (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_2020_55120_67285.jpg



View of crossing looking from channel towards WS levee.

LM Start	9.56	Rating **	M	Issue No.	941 (cont)
LM End	9.56	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55120_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.57	Rating **	M	Issue No.	942
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:55118
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 WS flap gate is silted over and unable to open. Needs to be dug out.05/28/2014 Same as last inspection.12/04/2013 Slopes were cleared of vegetation and are in good condition.07/09/2013 Same as last inspection.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.
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (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

LM Start	9.57	Rating **	M	Issue No.	942 (cont)
LM End	9.57	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_55118_67289.jpg



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

Photo 2 of 3 : UCIP_SP_2020_55118_67287.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.57	Rating **	M	Issue No.	942 (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 3 of 3 : UCIP_SP_2020_55118_67286.jpg



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

LM Start	9.60	Rating **	M	Issue No.	943
LM End	9.60	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.477040 °	39.477040 °	
			-121.735610 °	-121.735610 °	
DWR ID	16470				

No Photos

Comment Code					
Inspector Comment					
DS_ID:16470 FS_ID:55121 EP_NO: 3408 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no pipe has been found. Need to determine status of pipe through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Unable to locate. (DWR Sutter Yard- A Freitag)11/18/2016 Unable to locate. (DWR Sutter Yard- A Freitag)04/27/2016 Unable to locate.06/30/2015 Unable to locate.05/28/2014 Same as last inspection.12/04/2013 Unable to locate.07/09/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: Relocate existing cable inspection pit and lower underground cable. (Permit No. 3408, 1960 - Pacific Telephone and Telegraph Co.) FS Date: 8/28/2019 4:06:00 PM					

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.66	Rating **	M	Issue No.	944
LM End	9.66	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.476260 °	39.476260 °	
			-121.736230 °	-121.736230 °	
DWR ID	18912				

Comment Code

Inspector Comment

DS_ID:18912
FS_ID:55122
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been found authorizing this encroachment. Marker down on WS shoulder. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. Another marker was found/photographed near the LS toe. Crossing also appears to cross through the Unit1 levee around CLM8.860. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing is in good condition.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information.
FIELD_STRUCT_DESC: Buried communication line of unknown material through the levee at an unknown depth below the crown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601 as indicated by marker. (Qwest Communication) No permit has been identified since crossing was field discovered in 2012.
FS Date: 8/28/2019 4:08:00 PM

LM Start	9.66	Rating **	M	Issue No.	944 (cont)
LM End	9.66	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55122_67292.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2020_55122_67291.jpg



Marker for buried fiber optic cable 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.66	Rating **	M	Issue No.	944 (cont)
LM End	9.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476260 °	39.476260 °
				-121.736230 °	-121.736230 °
DWR ID	18912				

Photo 3 of 3 : UCIP_SP_2020_55122_67290.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.67	Rating **	M	Issue No.	945
LM End	9.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476140 °	39.476140 °
				-121.736390 °	-121.736390 °
DWR ID	18913				

Comment Code

Inspector Comment

DS_ID:18913
FS_ID:55123
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been found authorizing this crossing. Also need maintenance records to determine condition of line. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears to be in good condition. But still unknown if this crossing was authorized or unauthorized.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Authorized/unauthorized encroachment? Contact Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com for additional info. Inquiries pertaining to inspection submit to pipelineinquiries@kindermorgan.com and reference as Engr Station 3173+48 plus include coordinates.
FIELD_STRUCT_DESC: 8-inch high pressure line bored through the levee at depth unknown. Kinder Morgan is the owner of line--contact information is 213.624-9461 or Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com. Additional contact is Ken Yeo, Sacramento Local Area Manager, at 916.416.7938 or by email yeok@kindermorgan.com. Frank Villalovos is the primary contact for this crossing. No permit has been identified since crossing was field discovered in 2012.
FS Date: 8/28/2019 4:09:00 PM

Photo 1 of 3 : UCIP_SP_2020_55123_67295.jpg



Overview of levee crown at crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.67	Rating **	M	Issue No.	945 (cont)
LM End	9.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476140 °	39.476140 °
				-121.736390 °	-121.736390 °
DWR ID	18913				

Photo 2 of 3 : UCIP_SP_2020_55123_67294.jpg



WS marker with utility contact information.

LM Start	9.67	Rating **	M	Issue No.	945 (cont)
LM End	9.67	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55123_67293.jpg



View of LS slope and marker.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.69	Rating **	M	Issue No.	946
LM End	9.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.475960 °	39.475960 °
				-121.736540 °	-121.736540 °
DWR ID	18914				

Comment Code

Inspector Comment

DS_ID:18914
FS_ID:55972
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been found authorizing this crossing. Utility marker previously present on LS is missing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears to be in good condition. It is still unknown whether this crossing was authorized or unauthorized.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this crossing. Will need to coordinate with Pacific Telephone to determine if permit exist for this crossing.
FIELD_STRUCT_DESC: Underground communication cable through the levee, depth unknown below the crown. Owner of encroachment is Pacific Telephone. No permit has been identified since crossing was field discovered in 2012.
FS Date: 8/28/2019 4:09:00 PM

LM Start	9.69	Rating **	M	Issue No.	946 (cont)
LM End	9.69	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55972_67299.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2020_55972_67300.jpg



Marker located on LS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.69	Rating **	M	Issue No.	946 (cont)
LM End	9.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.475960 °	39.475960 °
				-121.736540 °	-121.736540 °
DWR ID	18914				

Photo 3 of 3 : UCIP_SP_2020_55972_67298.jpg



Underground cable marker with contact information.

LM Start	9.88	Rating **	M	Issue No.	947
LM End	9.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.473410 °	39.473410 °
				-121.738190 °	-121.738190 °
DWR ID	17731				

Comment Code

Inspector Comment

DS_ID:17731
FS_ID:55125
EP_NO: 16994
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no crossing found. Will need to review permit in detail to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/18/2016 Unable to locate. (DWR Sutter Yard-AFreitag)04/27/2016 Unable to locate.06/30/2015 Unable to locate.05/28/2014 Same as last inspection.12/04/2013 Unable to locate.07/09/2013 Same as last inspection. Unable to locate any signs of this crossing.04/24/2012 Unable to find any indicators for this crossing. It appears that this encroachment was not built. Check again during next inspection.
FIELD_STRUCT_DESC: 10-inch high-density polyethylene (HDPE) communication conduit through the levee, unknown depth below the crown. Conduit contains fiber-optic cables that goes across and under (bored) Cherokee Canal and its levees. Twelve inner ducts through casing with hand holes placed at each end for initial and future installation of fiber optic telecommunications cable. (Permit No. 16994, 2000 - Level 3 Comm)
FS Date: 8/28/2019 4:10:00 PM

Photo 1 of 3 : UCIP_SP_2020_55125_80923.jpg



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

*** Location**

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

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.88	Rating **	M	Issue No.	947 (cont)
LM End	9.88	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.473410 °	39.473410 °	
			-121.738190 °	-121.738190 °	
DWR ID	17731				

Photo 2 of 3 : UCIP_SP_2020_55125_80925.jpg



LS view: overview of LS.

LM Start	9.88	Rating **	M	Issue No.	947 (cont)
LM End	9.88	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55125_80926.jpg



WS view: overview of WS.

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_2020_MA0013_301_13_20200226_00002.jpg



View of the agricultural ditch along the toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	10.55	Rating **	M	Issue No.	948
LM End	10.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464710 °	39.464710 °
				-121.743810 °	-121.743810 °
DWR ID	16406				
Comment Code					
Inspector Comment					
DS_ID:16406 FS_ID:55126 EP_NO: 1238 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of line through the levee. Need to obtain maintenance records to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears in good condition. 05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection.04/24/2012 Permit was approved for 6-5/8 inch diameter not 8 inch. The permit granted permission to construct pipe to cross Cherokee Canal, Butte Creek, Clear Creek, & Ash Creek. The O&M manual list an 8 inch steel gas line at HLM 10.67, unable to determine if the gas line is the same crossing. Will need to contact applicant to obtain records. FIELD_STRUCT_DESC: 8-inch steel gas pipe through the levee at an unknown depth below the crown. Utility marker visible at the upstream and downstream face of highway bridge and along highway. Buried utility crosses bridge and crosses left bank of Cherokee Canal downstream of highway bridge. USA marking on highway indicate 6" STL LN 151. (Permit No. 1238, 1947 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1993 (HLM 10.67). USACE Sacramento O&M Manual 519, June 1962 (HLM 10.67), listed as 8-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/25.1, STA 597+05E, page 25 of 31 electronic file, listed as gas line through both levees] FS Date: 8/29/2019 7:30:00 AM					

Photo 1 of 3 : UCIP_SP_2020_55126_67332.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	10.55	Rating **	M	Issue No.	948 (cont)
LM End	10.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.464710 °	39.464710 °	
			-121.743810 °	-121.743810 °	
DWR ID	16406				

Photo 2 of 3 : UCIP_SP_2020_55126_67333.jpg



Utility is angled. Alignment crosses highway.

LM Start	10.55	Rating **	M	Issue No.	948 (cont)
LM End	10.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55126_67331.jpg



Downstream utility marker is located across highway.

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

Photo 1 of 1 : SP_2020_MA0013_301_18_20200226_00003.jpg



View of the agricultural ditch along the toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

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

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.88	Rating **	M	Issue No.	949 (cont)
LM End	12.88	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.434779 °	39.434779 °	
			-121.763940 °	-121.763940 °	
DWR ID	16385				

Photo 2 of 3 : UCIP_SP_2020_56106_67337.jpg



Stand pipe with screw gate WS

LM Start	12.88	Rating **	M	Issue No.	949 (cont)
LM End	12.88	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56106_67335.jpg



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

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

Photo 1 of 1 : SP_2020_MA0013_301_19_20200226_00004.jpg



View of the agricultural ditch along the toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.95	Rating **	M	Issue No.	950
LM End	13.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.421077 °	39.421077 °
				-121.773149 °	-121.773149 °
DWR ID	16474				

Comment Code

Inspector Comment

DS_ID:16474
FS_ID:55128
EP_NO: 17030
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, crossing is not found. Need to contact owner to determine status of crossing. Need to determine status of pipe through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/17/2016 Unable to locate. (DWR Sutter Yard-AFreitag)04/26/2016 Unable to locate.06/30/2015 Unable to locate.05/28/2014 Same as last inspection.12/04/2013 Unable to locate.07/08/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 8-inch high density polyethylene (HDPE), contains three 2-inch and three 1.5-inch fiber optic cables, backfilled with bentonite on the ends of the bore casing through the levee at an unknown depth below the crown. Conduit is bored across and under Cherokee Canal and its levees. Permit records indicates the conduit is buried 5 feet below the bottom of the low flow of the channel. Permit indicates work was completed as shown in submitted plans. Owner is listed in the permit as Pacific Fiber Link LLC but permit Inspection sheets list Worldwide Fiber. (Permit No. 17030, 2000 - Worldwide Fiber)
FS Date: 8/29/2019 7:32:00 AM

LM Start	13.95	Rating **	M	Issue No.	950 (cont)
LM End	13.95	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55128_80938.jpg



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

Photo 2 of 3 : UCIP_SP_2020_55128_80939.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.95	Rating **	M	Issue No.	950 (cont)
LM End	13.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.421077 °	39.421077 °
				-121.773149 °	-121.773149 °
DWR ID	16474				

Photo 3 of 3 : UCIP_SP_2020_55128_80940.jpg



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

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.44	Rating **	M	Issue No.	951
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:55129
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Crossing appears abandoned. LMA will need to coordinate with landowner to determine is drainage structure is still needed. DMP internal inspection shows that 90% of the pipe is filled with soil at a length of about 42 feet from WS flap gate. If crossing is not in use anymore, crossing will need to be abandoned properly or removed. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)5/30/2017 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. (DWR Sutter Yard-AFreitag)11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard-AFreitag)4/26/2016 LS inlet appears to be buried as could not locate it. WS flap gate was bolted shut. This appears to be an abandoned crossing.6/30/2015 Still unable to locate the LS pipe end. 5/28/2014 Same as last inspection.12/4/2013 Same as last inspection. WS flap gate was bolted shut to keep LS rice field flooded.7/08/2013 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.4/24/2012 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.
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 519, June 1962 (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_2020_55129_67341.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.44	Rating **	M	Issue No.	951 (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_2020_55129_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.	951 (cont)
LM End	15.44	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55129_67342.jpg



View of WS headwall and flap gate.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	952
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:55974
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, structure is non-functional and abandoned. Structure is abandoned. LMA will need to coordinate with landowner to determine if pipe is still needed as drainage structure. Dense vegetation covers the WS outlet and only LS headwall is visible at LS toe. If structure is no longer needed then structure will need to be abandoned properly or removed according to Title 23. DWR DMP internal inspection shows pipe has been filled with grout starting at about 47 feet from WS flap gate. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 LS pipe end is buried and location unknown. WS flap gate bolted shut. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard-AFreitag)04/26/2016 Appears to be an abandoned crossing. LS pipe end was still buried and WS flap gate was bolted shut.06/30/2015 LS headwall still buried somewhere. WS looked to be in good condition.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection.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. FIELD_STRUCT_DESC: *ABANDONED* 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 519, June 1962 (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_2020_55974_67352.jpg



Overview of crossing looking downstream of the left bank of Cherokee

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	952 (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_2020_55974_67351.jpg



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

LM Start	16.02	Rating **	M	Issue No.	952 (cont)
LM End	15.68	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55974_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.07	Rating **	M	Issue No.	953
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:55131
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent due to maintenance issues. Unable to determine status of crossing. Steel pipe is deteriorated on the WS between concrete boxes. 36-inch pipe not visible inside concrete boxes. Recommend internal inspection to determine pipe condition through the levee. Riser lid missing on WS (considered a safety issue). LS inlet shows about 75% blockage. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 LS headwall was mostly buried and pipe end over 50% full of sediment. WS distribution box appears to have not been repaired yet but it does not seem to affect the integrity of the levee. (DWR Sutter Yard- A.Freitag)11/17/2016 LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking. (DWR Sutter Yard- A.Freitag)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.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. 05/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.12/04/2013 Same as last inspection.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.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.
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 519, June 1962 (HLM 16.26), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact page, STA 372+13E, page 7 of 31 electronic file, listed as 36-inch CMP]
FS Date: 8/29/2019 7:34:00 AM

Photo 1 of 3 : UCIP_SP_2020_55131_67353.jpg



Overview of levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.07	Rating **	M	Issue No.	953 (cont)
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				



Appurtenances on WS.

LM Start	16.07	Rating **	M	Issue No.	953 (cont)
LM End	16.07	Issue Type +	En	Location *	



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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.86	Rating **	M	Issue No.	954	
LM End	16.86	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.406410 °	39.406410 °	
				-121.794600 °	-121.794600 °	
DWR ID	16841					
Comment Code						
Inspector Comment						
DS_ID:16841 FS_ID:55975 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/29/2019 Record remains Non-Urgent, unable to determine status of pipe through the levee. No signs were detected during DWR's Geophysical Study. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/17/2016 Unable to locate. (DWR Sutter Yard-AFreitag)04/26/2016 Unable to locate.06/30/2015 Unable to locate.05/28/2014 Same as last inspection.12/04/2013 Unable to locate.07/08/2013 Same as last inspection. Unable to locate.04/24/2012 Dense vegetation limited inspection will need to verify is a features are still present at this location during the next inspection. 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): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.87	Rating **	M	Issue No.	955
LM End	16.87	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.406401 °	39.406401 °
				-121.794640 °	-121.794640 °
DWR ID	16378				

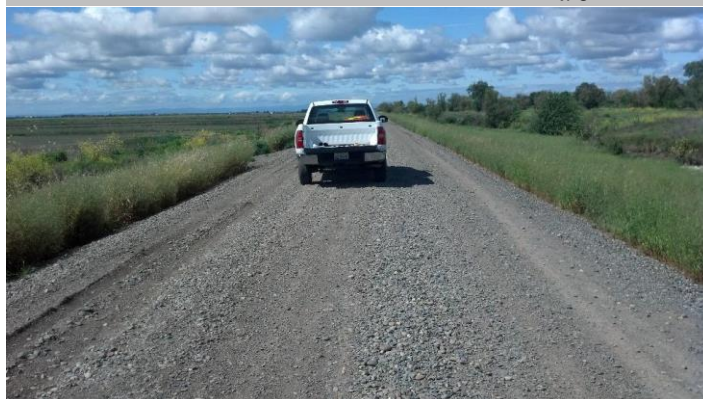
Comment Code

Inspector Comment

DS_ID:16378
FS_ID:55132
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. No DWR internal inspection has been completed yet. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears in good condition. No noticeable issues to report.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection.04/24/2012 Dense vegetation on the slopes restricted the field inspection at this crossing. Need photos of cleared WS and LS slopes, and appurtenances.
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. Walkway and slide gate located on the landside (LS) end. Concrete "U" headwalls on both end. Reference noted in Levee Logs as USACE-1960 does not match entry in USACE Sacramento O&M Manual 519, June 1962. [Additional Reference(s): DWR Levee Log, 1993 (HLM 17.06)]
FS Date: 8/29/2019 7:36:00 AM

LM Start	16.87	Rating **	M	Issue No.	955 (cont)
LM End	16.87	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55132_67382.jpg



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

Photo 2 of 3 : UCIP_SP_2020_55132_67383.jpg



View of WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.87	Rating **	M	Issue No.	955 (cont)	
LM End	16.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.406401 °	39.406401 °	
				-121.794640 °	-121.794640 °	
DWR ID	16378					

Photo 3 of 3 : UCIP_SP_2020_55132_67380.jpg



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

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

Photo 1 of 1 : SP_2020_MA0013_301_20_20200226_00005.jpg



View of the agricultural ditch along the toe.

LM Start	17.28	Rating **	M	Issue No.	95
LM End	19.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.402530 °	39.379836 °
				-121.800638 °	-121.835979 °
DWR ID	DWR_MA0013_02_s_2020_95				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.41	Rating **	N	Issue No.	67
LM End	17.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.401331 °	39.401331 °
				-121.802480 °	-121.802480 °
DWR ID	DWR_MA0013_02_f _ 2016_67				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Approximately eight stumps are present at the landside toe.					

No Photos

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

Photo 1 of 1 : SP_2020_MA0013_301_69_20200415_00179.jpg



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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	956
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:55133
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is under water. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Vegetation still present on WS. LS side was underwater during inspection.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.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.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.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 18.37). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55133_67387.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	956 (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_2020_55133_67386.jpg



View of WS slope and berm.

LM Start	18.16	Rating **	M	Issue No.	956 (cont)
LM End	18.16	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55133_67390.jpg



View of flap gate located on WS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	19.32	Rating **	M	Issue No.	957	
LM End	19.32	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.383700 °	39.383700 °	
				-121.829850 °	-121.829850 °	
DWR ID	16380					
Comment Code						
Inspector Comment						
DS_ID:16380 FS_ID:54845 EP_NO: 3511 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, unable to determine status of pipe through the levee. Crossing was not found. Need to determine status of crossing through the levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/17/2016 Unable to locate. (DWR Sutter Yard-AFreitag)04/26/2016 Unable to locate.06/30/2015 Unable to locate.05/28/2014 Same as last inspection.12/04/2013 Unable to locate.07/08/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: U.S. Army communication cable through the levee, 3 feet below the crown. (Permit No. 3511, 1961 - US Army Engineer District) [Additional Reference(s): DWR Levee Log, 1993 (HLM 19.54)] FS Date: 8/29/2019 7:37:00 AM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : 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 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	19.33	Rating **	M	Issue No.	958
LM End	19.33	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.383610 °	39.383610 °
				-121.830000 °	-121.830000 °
DWR ID	16381				
Comment Code					
Inspector Comment					
DS_ID:16381 FS_ID:55134 EP_NO: 10918 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, due to maintenance issue. Recommend contacting owner to determine if line is still in use. No marker visible. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Crossing is in good condition.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection. FIELD_STRUCT_DESC: 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). (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	19.33	Rating **	M	Issue No.	958 (cont)
LM End	19.33	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55134_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_2020_55134_67394.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	19.33	Rating **	M	Issue No.	958 (cont)
LM End	19.33	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.383610 °	39.383610 °
				-121.830000 °	-121.830000 °
DWR ID	16381				

Photo 3 of 3 : UCIP_SP_2020_55134_67395.jpg



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

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_2020_MA0013_301_21_20200226_00006.jpg



View of the agricultural ditch along the toe.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	959
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:55135
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Erosion still present at WS headwall. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Erosion still present at WS headwall. (DWR Sutter Yard- A.Freitag)04/26/2016 Erosion still present behind the WS headwall. The rest of the crossing appears in good condition.06/30/2015 Erosion still present behind the WS headwall. Everything thing else with the crossing appeared to be in good condition.12/04/2013 Same as last inspection.05/28/2014 Same as last inspection.07/08/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape.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. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 20.15). USACE Sacramento O&M Manual 519, June 1962 (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_2020_55135_67401.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	959 (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_2020_55135_67400.jpg



Erosion behind WS headwall at the upstream edge of headwall.

LM Start	19.92	Rating **	M	Issue No.	959 (cont)
LM End	19.92	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55135_67402.jpg



Flap gate located on the WS.

LM Start	20.52	Rating **	M	Issue No.	73
LM End	20.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.372486 °	39.372486 °
				-121.846537 °	-121.846537 °
DWR ID	DWR_MA0013_02_f_2016_73				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside slope and toe.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	20.59	Rating **	M	Issue No.	66
LM End	20.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.371955 °	39.371955 °
				-121.847714 °	-121.847714 °
DWR ID	DWR_MA0013_02_s_2019_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the trees from the landside slope.					

No Photos

LM Start	20.70	Rating **	M	Issue No.	52
LM End	20.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.371108 °	39.371108 °
				-121.849520 °	-121.849520 °
DWR ID	DWR_MA0013_02_s_2014_52				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside slope and toe.					

No Photos

LM Start	20.74	Rating **	N	Issue No.	74
LM End	20.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.370796 °	39.370796 °
				-121.850124 °	-121.850124 °
DWR ID	DWR_MA0013_02_f_2016_74				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	960
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:56078
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Urgent due to pipe and levee integrity concerns. Also no permit has been identified authorizing pump station. Pump station is still active. Crossing shows sloughing on the WS with visible holes in pipe on the LS. This crossing is under investigation under CVFPB enforcement case (ENF ID) 723. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 The CVFPB has filed an enforcement for this crossing, Enforcement Case: 2018-723. There is still massive erosion around the WS headwall and corrosion and degradation of the LS outlet pipes, so the crossing remains Urgent (D. Sanoski - DWR UCIP).05/30/2017 No repairs have been made here yet. WS still has depressions above the pipe alignment. LS pipe end still showing heavy signs of rusting and deterioration. Sediment build up inside of concrete distribution box on the LS. (DWR Sutter Yard - A.Freitag)11/17/2016 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - A.Freitag)04/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - A.Freitag)06/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - A.Freitag)05/28/2014 Same as last inspection. (DWR Sutter Yard - a.freitag)12/04/2013 Same as last inspection. (DWR Sutter Yard - a.freitag)07/08/2013 Same as last inspection. (DWR Sutter Yard - a.freitag)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. (DWR UCIP - omagana)
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 519, June 1962 (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_2020_56078_67406.jpg



Corrugated metal pipe risers with slide gates located on WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	960 (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_2020_56078_67407.jpg



Corrugated metal pipe riser for pipe 1 of 3. Slide gate is missing handle.

LM Start	20.76	Rating **	U	Issue No.	960 (cont)
LM End	20.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56078_67409.jpg



Sink hole observed behind WS headwall at the downstream edge of headwall. (Sink hole picture 1 of 2)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	961
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:56079
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Urgent due to pipe and levee integrity concerns. Also no permit has been identified authorizing pump station. Pump station is still active. Crossing shows sloughing on the WS with visible holes in pipe on the LS. This crossing is under investigation under CVFPB enforcement case (ENF ID) 723. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 The CVFPB has filed an enforcement for this crossing, Enforcement Case: 2018-723. There is still massive erosion around the WS headwall and corrosion and degradation of the LS outlet pipes, so the crossing remains Urgent (D. Sanoski - DWR UCIP).05/30/2017 No repairs have been made here yet. WS still has depressions above the pipe alignment. LS pipe end still showing heavy signs of rusting and deterioration. Sediment build up inside of concrete distribution box on the LS. (DWR Sutter Yard - A.Freitag)11/17/2016 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - A.Freitag)04/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - a.freitag)06/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - a.freitag)05/28/2014 Same as last inspection. (DWR Sutter Yard - a.freitag)12/04/2013 Same as last inspection. (DWR Sutter Yard - a.freitag)07/08/2013 Same as last inspection. (DWR Sutter Yard - a.freitag)04/24/2012 LS pipe collars severely damaged--section missing at flap gate. Crossing needs repair. Will need to coordinate with owner. (DWR UCIP - omagana)
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 519, June 1962 (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_2020_56079_67416.jpg



WS view of corrugated metal pipe risers .

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	961 (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_2020_56079_67418.jpg



Riser for pipe 2 of 3.

LM Start	20.76	Rating **	U	Issue No.	961 (cont)
LM End	20.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56079_67415.jpg



View of pipe 2. Pipe 2 diverts flow to pipe 1.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	20.76	Rating **	U	Issue No.	962
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:56080
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Urgent due to pipe and levee integrity concerns. Also no permit has been identified authorizing pump station. Pump station is still active. Crossing shows sloughing on the WS with visible holes in pipe on the LS. This crossing is under investigation under CVFPB enforcement case (ENF ID) 723. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 The CVFPB has filed an enforcement for this crossing, Enforcement Case: 2018-723. There is still massive erosion around the WS headwall and corrosion and degradation of the LS outlet pipes, so the crossing remains Urgent (D. Sanoski - DWR UCIP).05/30/2017 No repairs have been made here yet. WS still has depressions above the pipe alignment. LS pipe end still showing heavy signs of rusting and deterioration. Sediment build up inside of concrete distribution box on the LS. (DWR Sutter Yard - A.Freitag)11/17/2016 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - A.Freitag)04/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - a.freitag)06/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - a.freitag)05/28/2014 Same as last inspection. (DWR Sutter Yard - a.freitag)12/04/2013 Same as last inspection. (DWR Sutter Yard - a.freitag)07/08/2013 Same as last inspection. (DWR Sutter Yard - a.freitag)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. (DWR UCIP - omagana)
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 519, June 1962 (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_2020_56080_67441.jpg



View of corrugated metal risers located on WS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.35	Rating **	M	Issue No.	963
LM End	21.35	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.366155 °	39.366155 °	
			-121.859880 °	-121.859880 °	
DWR ID	16384				

Comment Code

Inspector Comment

DS_ID:16384
FS_ID:55413
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent due to unauthorized encroachment with recent modifications. Structure type needs to be corrected from Drainage to Irrigation. During inspection water was flowing from WS to LS to irrigate the rice fields. Structure has been modified since 2012, unable to determine extent of repair through levee. Need to contact owner to determine section replaced through levee. Structure is not maintained or operated by LMA-DWR Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard - A.Freitag)11/17/2016 Pipe section that crosses through the levee appears to be in good condition. (DWR Sutter Yard - A.Freitag)04/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board.06/30/2015 Pipe is currently undergoing repairs. Not sure what all is planned to be fixed but will update the photos and inspection report with new details when its completed.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more details on repair.04/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate present.
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of existing pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (24-inch CMP authorized to match existing 24-inch CMP through left bank under Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993 (HLM 21.60). USACE Sacramento O&M Manual 519, June 1962 (HLM 21.60), As-built DWG No. 50-4-3511, Sheet No. 3511/22, STA 93+21E, page 22 of 31 electronic file, listed as 24-inch CMP section through the levee (irrigation structure); As-built DWG No. 50-4-3037 referenced not available]
FS Date: 8/29/2019 7:39:00 AM

Photo 1 of 3 : UCIP_SP_2020_55413_67447.jpg



Overview of crossing looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.35	Rating **	M	Issue No.	963 (cont)
LM End	21.35	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_55413_67451.jpg



View of WS daylight. Hole present at pipe daylight.

LM Start	21.35	Rating **	M	Issue No.	963 (cont)
LM End	21.35	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55413_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.81	Rating **	M	Issue No.	964
LM End	21.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362520 °	39.362520 °
				-121.867030 °	-121.867030 °
DWR ID	17732				

Comment Code

Inspector Comment

DS_ID:17732
FS_ID:55141
EP_NO: 17504
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of pipe through levee. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (DWR Sutter Yard - A Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard - A Freitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Crossing and markers are in good condition.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Carsonite marker installed on WS shoulder identifying gas line location.04/24/2012 Unable to find crossing during spring inspection. Will need to verify during Fall inspection when vegetation is removed from slopes.
FIELD_STRUCT_DESC: 30-inch gas pipeline across and under (bored) Cherokee Canal and its levees with minimum of 50 feet of cover below the levee toes. (30-inch line authorized under Permit No. 17504, 2004 - David D. Davis-Matrix Environmental Planning) Emergency contact number is 1-800-352-8781.
FS Date: 8/29/2019 7:40:00 AM

LM Start	21.81	Rating **	M	Issue No.	964 (cont)
LM End	21.81	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55141_67457.jpg



Carsonite marker on WS shoulder

Photo 2 of 3 : UCIP_SP_2020_55141_74994.jpg



Close up of marker with contact info

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.81	Rating **	M	Issue No.	964 (cont)
LM End	21.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362520 °	39.362520 °
				-121.867030 °	-121.867030 °
DWR ID	17732				

Photo 3 of 3 : UCIP_SP_2020_55141_81020.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.83	Rating **	M	Issue No.	965	
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:55414 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined and a new flap gate has been installed on the WS. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 WS flap gate showing signs of rusting and deterioration but still appears to be able to function properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard - AFreitag)11/17/2016 WS flap gate is really rusted and deteriorated but it appears to still function properly. (DWR Sutter Yard - AFreitag)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.06/30/2015 Crossing is in good condition. No noticeable issues to be reported.05/28/2014 Same as last inspection.12/04/2013 WS and LS slopes are in good condition.07/08/2013 Same as last inspection.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. 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 519, June 1962 (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_2020_55414_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.83	Rating **	M	Issue No.	965 (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_2020_55414_67460.jpg



View of WS headwall.

LM Start	21.83	Rating **	M	Issue No.	965 (cont)
LM End	21.83	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55414_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.86	Rating **	M	Issue No.	966
LM End	21.86	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362150 °	39.362150 °
				-121.867770 °	-121.867770 °
DWR ID	16386				

Comment Code

Inspector Comment

DS_ID:16386
FS_ID:55143
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this pipe. No maintenance records are available for this crossing. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (DWR Sutter Yard - A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard - A.Freitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Crossing and markers are in good condition.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection.04/24/2012 Markers visible for crossing.
FIELD_STRUCT_DESC: High pressure gas line through the levee. Depth unknown. [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.11). USACE Sacramento O&M Manual 519, June 1962, listed in As-built DWG No. 50-4-3511 only and not manual, Sheet No. 3511/31.2, STA 66+00E, page 31 of 31 electronic file, listed as 12-inch underground gas main section through the levee]
FS Date: 8/29/2019 7:41:00 AM

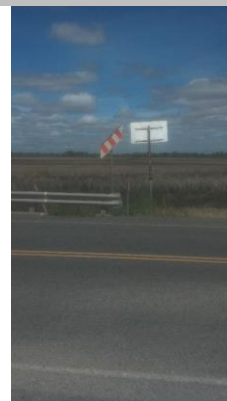
LM Start	21.86	Rating **	M	Issue No.	966 (cont)
LM End	21.86	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55143_67463.jpg



Overview of gas line marker located at the upstream face of the highway bridge.

Photo 2 of 3 : UCIP_SP_2020_55143_67465.jpg



Gas line marker at the upstream face of highway bridge.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.86	Rating **	M	Issue No.	966 (cont)
LM End	21.86	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362150 °	39.362150 °
				-121.867770 °	-121.867770 °
DWR ID	16386				

Photo 3 of 3 : UCIP_SP_2020_55143_67464.jpg



View of second gas line marker looking East at highway (LS view).

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.86	Rating **	M	Issue No.	967
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:54857 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Also modification have been made without prior notification to the CVFPB. Multiple splice boxes can be found along the LS toe. Need to review CVFPB enforcement case to determine if issue has been resolved. Need updated photos for this crossing. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Splice box still present at LS toe. (DWR Sutter Yard - A.Freitag)11/17/2016 Splice box still present at LS toe. (DWR Sutter Yard - A.Freitag)04/26/2016 Communication Splice box was still present. Not sure what was done to ever resolve the encroachment issue.06/30/2015 Same as last inspection.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection.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. 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. USACE Sacramento O&M Manual 519, June 1962, 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_2020_54857_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	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_2020_MA0013_301_59_20200415_00180.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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	968
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				

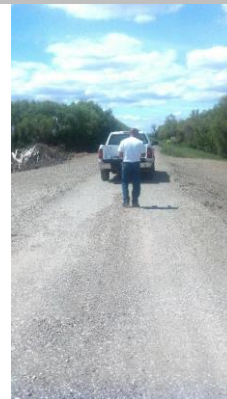
Comment Code

Inspector Comment

DS_ID:16842
FS_ID:55144
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Recommend CMP riser covers for this crossing for safety purposes. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (DWR Sutter Yard - A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard - A.Freitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Crossing is in good condition. No noticeable issues to report.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection.
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 519, June 1962 (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

LM Start	22.14	Rating **	M	Issue No.	968 (cont)
LM End	22.14	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_55144_67481.jpg



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

Photo 2 of 3 : UCIP_SP_2020_55144_67482.jpg



View of corrugated metal risers located on WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	968 (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 3 of 3 : UCIP_SP_2020_55144_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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

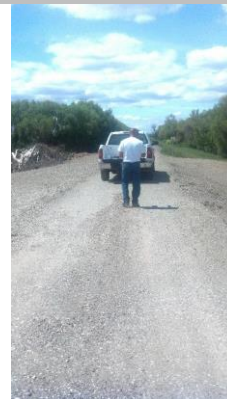
Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	969
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:55145 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Recommend CMP riser covers for this crossing for safety purposes. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. (DWR Sutter Yard - A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard - A.Freitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Crossing is in good condition. No noticeable issues to report.05/28/2014 Same as last inspection.12/04/2013 Top of screw gate has been replaced and gate is now fully functional.07/08/2013 Top of slide gate frame and wheel missing making gate inoperable. Needs to be replaced before flood season. 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 519, June 1962 (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_2020_55145_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.14	Rating **	M	Issue No.	969 (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_2020_55145_67491.jpg



View of corrugated metal risers located on WS.

LM Start	22.14	Rating **	M	Issue No.	969 (cont)
LM End	22.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55145_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.15	Rating **	M	Issue No.	970
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:56064
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. 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. (DWR Sutter Yard - A.Freitag)11/17/2016 Unable to locate LS pipe end. WS appears to be in good condition. (DWR Sutter Yard - A.Freitag)04/26/2016 Still unable to locate the LS headwall and end of pipe. Pipe is still being used. Pipe was draining to WS.06/30/2015 Still unable to locate the LS headwall and pipe end.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection. Unable to locate LS headwall.04/24/2012 Unable to locate LS headwall. Need photo of LS headwall during next inspection.
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 519, June 1962 (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_2020_56064_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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.15	Rating **	M	Issue No.	970 (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_2020_56064_67496.jpg



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

LM Start	22.15	Rating **	M	Issue No.	970 (cont)
LM End	22.15	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56064_67497.jpg



View of flap gate on WS.

LM Start	22.32	Rating **	M	Issue No.	63
LM End	22.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358453 °	39.358453 °
				-121.875030 °	-121.875030 °
DWR ID	DWR_MA0013_02_s_2019_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the fallen trees along the landside slope and toe.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.33	Rating **	A/W	Issue No.	62
LM End	22.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.358419 °	39.358419 °
				-121.875088 °	-121.875088 °
DWR ID	DWR_MA0013_02_s_2016_62				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_301_62_20200226_00011.jpg



View of slope instability issue along the landside slope.

LM Start	22.50	Rating **	U	Issue No.	58
LM End	22.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.357085 °	39.357033 °
				-121.877812 °	-121.877901 °
DWR ID	DWR_MA0013_02_f _ 2019_58				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_301_58_20200226_00008.jpg



View of erosion on the landside slope. Fall 2019.

LM Start	22.54	Rating **	M	Issue No.	60
LM End	22.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.356780 °	39.356780 °
				-121.878422 °	-121.878422 °
DWR ID	DWR_MA0013_02_f_2019_60				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_301_60_20200226_00009.jpg



View of sloughing on the landside slope. Fall 2019.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.58	Rating **	U	Issue No.	61
LM End	22.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.356476 °	39.356476 °
				-121.879089 °	-121.879089 °
DWR ID	DWR_MA0013_02_s_2019_61				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0013_301_61_20200226_00010.jpg



View of the erosion at the landside shoulder and slope. Spring 2019.

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