

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

Sutter Maintenance Yard Maintenance Area 0003

	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 0003

Waterway		Bank	Unit Miles
Unit No. 01 Feather River		Right	5.11

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/18/2020 - 3/18/2020			
DWR Inspector	Sterling York			
Accompanied By	Steve Beckley			

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 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_MA0003_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_MA0003_01_s_2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_MA0003_01_s_2013_7				
Comment Code					
Inspector Comment					
The Sutter Yard has received flood fight training.					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	0.01	Rating **	A	Issue No.	12
LM End	3.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.898005 °	38.935226 °	
			-121.617932 °	-121.589146 °	
DWR ID	DWR_MA0003_01_s_2020_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Spring 2020.					

Photo 1 of 1 : SP_2020_MA0003_195_12_20200327_00024.jpg



View looking upstream landside at the well maintained annual vegetation, Spring 2020.

LM Start	0.01	Rating **	A	Issue No.	17
LM End	3.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.898006 °	38.935226 °	
			-121.617932 °	-121.589146 °	
DWR ID	DWR_MA0003_01_s_2020_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0003_195_17_20200327_00025.jpg



View looking upstream waterside at the well maintained annual vegetation, Spring 2020.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	0.81	Rating **	U	Issue No.	19
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.903264 °	38.903264 °	
			-121.605698 °	-121.605698 °	
DWR ID	17092				

Comment Code					

Inspector Comment

DS_ID:17092
 FS_ID:54171
 EP_NO: N/A
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 05/01/2019 Same as last inspection, record remains Urgent due to the potential of levee integrity issues on the LS. Dense vegetation on both the WS and LS limits the inspection to determine if sink hole or erosion behind headwall on LS has progressed. No permit has been identified for this structure. Structure has been abandoned. (O. Magana - DWR UCIP)10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)
 04/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - AFreitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - afreitag)04/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)05/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - W. Wylie)
 FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005 (HLM 0.80). USACE Sacramento O&M Manual 143, August 1955, (Station 982+00), O&M As-built dwg no. 50-04-2033, page 1 of 1, Station 982+00, two 18-inch steel soil proofed pipes].
 FS Date: 5/1/2019 2:50:00 PM

Photo 1 of 3 : UCIP_SP_2020_54171_64649.jpg



Concrete headwall with walkway and slide gates at LS toe.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	0.81	Rating **	U	Issue No.	20
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.903264 °	38.903264 °	
			-121.605698 °	-121.605698 °	
DWR ID	17136				

Comment Code					

Inspector Comment					
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DS_ID:17136
 FS_ID:56067
 EP_NO: N/A
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 05/01/2019 Same as last inspection, record remains Urgent due to the potential of levee integrity issues on the LS. Dense vegetation on both the WS and LS limits the inspection to determine if sink hole or erosion behind headwall on LS has progressed. No permit has been identified for this structure. Structure has been abandoned. (O. Magana - DWR UCIP)10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)
 04/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - AFreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)04/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)05/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - W. Wylie)
 FIELD_STRUCT_DESC: 2 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005 (HLM 0.80). USACE Sacramento O&M Manual 143, August 1955, (Station 982+00), O&M As-built dwg no. 50-04-2033, page 1 of 1, Station 982+00, two 18-inch steel soil proofed pipes].
 FS Date: 5/1/2019 2:51:00 PM

Photo 1 of 3 : UCIP_SP_2020_56067_64662.jpg



Concrete headwall, slidegates, and metal walkway on LS toe.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	0.81	Rating **	U	Issue No.	20 (cont)
LM End	0.81	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_56067_64661.jpg



Concrete U shaped headwall on WS toe filled with sandbags.

LM Start	1.13	Rating **	U	Issue No.	20 (cont)
LM End	1.13	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56067_64660.jpg



Flap gates appear to be missing from U shaped headwall. Sandbags fill headwall but water flows heavily from LS.

LM Start	1.13	Rating **	M	Issue No.	13
LM End	1.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.901931 °	38.901931 °
				-121.599893 °	-121.599893 °
DWR ID	DWR_MA0003_01_f_2019_13				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings and irrigation pipe at the levee toe, Spring 2020.					

Photo 1 of 1 : SP_2020_MA0003_195_13_20200327_00022.jpg



View looking at landside of prunings and irrigation piping piled at the levee toe, Spring 2020.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	1.69	Rating **	A/W	Issue No.	1
LM End	3.18	Issue Type +	Ob	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.906369 °	38.925732 °	
			-121.591456 °	-121.585217 °	
DWR ID	MA3-01				
Comment Code					
Inspector Comment					
Planned for PL 84-99 Repair in 2020. Site ID No:148 Site Designation:MA3-01 Rock seepage berm install during 2017 emergency activation.					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	1.84	Rating **	M	Issue No.	21
LM End	1.84	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.907744 °	38.907744 °	
			-121.589344 °	-121.589344 °	
DWR ID	17090				
Comment Code					
Inspector Comment					
DS_ID:17090 FS_ID:54174 EP_NO: 3511 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent due to the unknown status of the crossing through the levee. Permit recordation indicates line was not abandoned as of 5-30-1974 (page 3 of 98) notes indicated the following: "App #3511 Comm Cable is in use and not abandoned". However, page 4 of 98, permit records indicate the Board approved abandonment of line and asked the owner to meet certain conditions to properly abandon line. (O. Magana - DWR UCIP)04/11/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/18/2016 Unable to locate.05/12/2015 Unable to locate.11/17/2014 Same as last inspection.05/14/2014 Same as last inspection.05/21/2013 SBFCA report claims cable may meet title 23 requirements but will need to be removed for cutoff wall construction and replaced in accordance of title 23. Could not find any signs of crossing.10/30/2013 Same as last inspection.10/10/2012 Unable to locate any indication that crossing exists at old Nicolaus bridge. (DWR UCIP - W. Wylie) FIELD_STRUCT_DESC: USA communication cable of an unknown size or material through the levee, 3 feet below the crown. (underground cable authorized under Permit No. 3511, 1961 - U.S. Army Engineer District). [Additional Reference(s): DWR Levee Log, 2005 (HLM 1.70)]. FS Date: 5/1/2019 2:52:00 PM					

Photo 1 of 3 : UCIP_SP_2020_54174_64665.jpg



Old nicolaus bridge location. No indication of crossing.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	1.84	Rating **	M	Issue No.	21 (cont)
LM End	1.84	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.907744 °	38.907744 °
				-121.589344 °	-121.589344 °
DWR ID	17090				

Photo 2 of 3 : UCIP_SP_2020_54174_64664.jpg



Old nicolaus bridge location. No indication of crossing.

LM Start	1.84	Rating **	M	Issue No.	21 (cont)
LM End	1.84	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54174_79804.jpg



WS view: Old Nicolaus bridge location only concrete section remains. No evidence of communication line.

LM Start	1.86	Rating **	C	Issue No.	14
LM End	1.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.907820 °	38.907820 °
				-121.589000 °	-121.589000 °
DWR ID	DWR_MA0003_01_f_2019_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree limbs have been trimmed, Spring 2020.					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	2.17	Rating **	U	Issue No.	22
LM End	2.17	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.911734 °	38.911734 °	
			-121.586106 °	-121.586106 °	
DWR ID	17088				

Comment Code

Inspector Comment

DS_ID:17088
 FS_ID:54185
 EP_NO: 3284
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 06/14/2019 Record remains Urgent due to the integrity issues identified during the Aug 2018 internal inspection completed by Odysseus Farms Hamatani. Received PL 84-99 Emergency Levee Repairs Site 0521-41 Plans, from J. Peterson with the CVFPB Enforcement Section, documenting proposed culvert removal and new pipe installation system through levee. Emergency Levee Repairs at this location are expected to start 2020. LMA should be monitoring this site until emergency levee repairs are completed. If any issues arise please contact J. Peterson (Jenna.Peterson@cvflood.ca.gov) with the CVFPB Enforcement Section. Pipe is being tracked under CVFPB Enforcement Case No. 14794. (O. Magana - DWR UCIP)
 05/01/2019 Same as October 2018 inspection. LS ditch filled with water and unable to access LS outlet. As of March 2019, this crossing is under investigation by the CVFPB under CVFPB Enforcement Case No. 14794. (O. Magana - DWR UCIP)01/16/2019 The following DSIDs, 17089 and 17134, are considered duplicate entries for DSID 17088. DWR Levee Log and USACE O&M manual reference 24-inch concrete culvert through levee, permit records indicate 32-inch concrete culvert through levee. Need to measure concrete box through levee to confirm culvert size. Concrete culvert through the levee was referenced in permit records as existing structure (32-inch culvert) back in 1960 under Permit No. 3284. (O. Magana - DWR UCIP)
 10/04/2018 Cavity filled with rock is still intact. Unable to determine cause of cavity collapse. Photos taken from LS show some sediment buildup inside concrete culvert. The pipe is a straight through culvert that goes through a tall levee (about 25 feet tall). Recommend internal inspection to determine integrity condition of culvert through the levee. Crossing remains Urgent due to the cavity collapse observed during 2017 (unknown cause of failure) and the unknown condition of the culvert through the levee. Erosion and potential sink holes visible behind concrete box on the WS toe. (O. Magana - DWR UCIP)
 4/11/2017 There was a cavity collapse above the pipe alignment on the WS slope during January 2017 high water event. Cavity was filled with rock to prevent further levee damage during the high water season. Further inspection will be needed on this crossing to determine the cause of the collapse. Recommend having an internal camera inspection done. Erosion happening around the WS concrete vault. (DWR Sutter Yard- A Freitag)10/10/2016 LS pipe end was mostly submerged so could not verify the connectivity between the LS headwall and WS vault. Blackberries and still overgrown on WS.(DWR Sutter Yard - a Freitag)4/18/2016 WS vault is being overgrown with

Photo 1 of 3 : UCIP_SP_2020_54185_64668.jpg



32X32 box culvert on LS toe in Concrete U shaped channel with slide gate.

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

blackberries. They should be sprayed and cleared back. No other problems were noticeable with this crossing.05/12/2015 Only the right flap gate appeared to be abandoned. The left and middle flap gates were flowing water during the last inspection.11/17/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/21/2013 Pumping plant was running and filling concrete vault on WS toe through the left flap gate and then flowing through levee pipe and filling irrigation ditch on LS. Left and middle flap gates appear to be connected to pumps and right gate appears abandoned. Recommend contacting owner to get more details.10/10/2012 Pumping plant has been disconnected from levee. Need to determine if abandonment is appropriate or if this is now a gravity drain with flap gate. (DWR UCIP - W. Wylie)
FIELD_STRUCT_DESC: 32-inch by 32-inch reinforced concrete irrigation culvert through the levee, approximately 28 feet below the crown. Transition between vault on the waterside (WS) and box culvert within levee section is made with a 41-inch corrugated metal pipe (CMP). Slide gate located on the landside (LS) at concrete h

LM Start	2.17	Rating **	U	Issue No.	22 (cont)
LM End	2.17	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_54185_64667.jpg



8-foot X 14-foot concrete box on WS toe with slide gate and 3 abandoned flap gates.

LM Start	2.17	Rating **	U	Issue No.	22 (cont)
LM End	2.17	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54185_64666.jpg



Pumping plant on WS toe at small slough. Pipes no longer connected to concrete box on WS toe.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	2.46	Rating **	M	Issue No.	23
LM End	2.46	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.915482 °	38.915482 °	
			-121.583866 °	-121.583866 °	
DWR ID	17135				
Comment Code					
Inspector Comment					
DS_ID:17135 FS_ID:54189 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent no records were made available to determine status of pipe through the levee. Record updated to show record source is only from USACE Sacramento O&M Manual and not levee logs. (O. Magana - DWR UCIP)04/11/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/18/2016 Unable to locate.05/12/2015 Unable to locate.11/17/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/21/2013 Could not locate any signs of crossing. FIELD_STRUCT_DESC: 10-inch steel pipe of an unknown purpose through the levee, approximately 2.3 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 143, August 1955, (Station 814+62), as-built drawing no. 04-13-0094, page 3 of 7]. FS Date: 5/1/2019 2:54:00 PM					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	3.78	Rating **	M	Issue No.	24 (cont)
LM End	3.78	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932482 °	38.932482 °
				-121.591005 °	-121.591005 °
DWR ID	17087				

Photo 2 of 3 : UCIP_SP_2020_54190_64671.jpg



Pipe at LS shoulder showing exposed concrete cutoff wall.

LM Start	3.78	Rating **	M	Issue No.	24 (cont)
LM End	3.78	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54190_64670.jpg



Pump at WS toe with tower over top and concrete U shaped headwall.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	3.78	Rating **	M	Issue No.	25 (cont)
LM End	3.78	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.932512 °	38.932512 °	
			-121.590987 °	-121.590987 °	
DWR ID	17086				

Photo 2 of 3 : UCIP_SP_2020_54191_79825.jpg



WS view: concrete vault located on levee crown. Unknown pipe size or purpose.

LM Start	3.78	Rating **	M	Issue No.	25 (cont)
LM End	3.78	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_54191_79826.jpg



WS view: stake located on WS shoulder. Unable to determine if work is still pending.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	3.99	Rating **	A/W	Issue No.	15
LM End	5.10	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.935226 °	38.950762 °	
			-121.589146 °	-121.585810 °	
DWR ID	DWR_MA0003_01_f_2019_15				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Still under USACE construction on this portion of levee, Spring 2020.					

Photo 1 of 2 : SP_2020_MA0003_195_15_20200327_00026.jpg



View looking upstream at the portion of levee that is still under construction, Spring 2020.

LM Start	3.99	Rating **	A/W	Issue No.	15 (cont)
LM End	5.10	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2020_MA0003_195_15_20200227_00003.jpg



View looking upstream at the portion of levee that is under construction, Fall 2019.

LM Start	4.15	Rating **	A/W	Issue No.	16
LM End	4.18	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		38.937451 °	38.937937 °	
			-121.588512 °	-121.588471 °	
DWR ID	DWR_MA0003_01_s_2020_16				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 12.3 R Status: Under Construction 2017 Field Notes: Under construction. work in progress. Site History: 2013 - Minor toe scour causing gradual erosion of bank slope. Site is within ecological reserve.					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/18/2020 03/18/2020	Sterling York

LM Start	4.71	Rating **	A/W	Issue No.	18
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.945188 °	38.945958 °
				-121.586096 °	-121.586394 °
DWR ID	DWR_MA0003_01_s_2020_18				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 12.8 R Status: Under Construction 2017 Field Notes: Under construction. work in progress. Site History: 2013 - Minor toe scour causing gradual erosion into the bank slope.					

No Photos

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