

**Flood Control Project Maintenance
Levee Inspections**

Fall 2021 Levee Maintenance Deficiency Summary Report

Sacramento River Basin

LD0009	Overall LMA Rating	Total LMA Miles						
Levee District No. 0009 (Sutter County)	A	6.25						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.32		0.32	5.12%				
Encroachments					0.34			
<i>Supplemental</i>								
DWR UCIP Field Study					0.03			
<i>LMA Totals:</i>	0.32	0.00	0.32	5.12%	0.37	0.00	0.00	0.00

Unit No. 01 Sutter County, Feather River RB	Overall Unit Rating	Total Unit Miles						
LD0009	A	6.25						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.32		0.32	5.12%				
Encroachments					0.34			
<i>Supplemental</i>								
DWR UCIP Field Study					0.03			
<i>Unit Totals:</i>	0.32	0.00	0.32	5.12%	0.37	0.00	0.00	0.00

Flood Control Project Maintenance Levee Inspections LMA District Cover Sheet

Levee District No. 0009 (Sutter County)

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

**** 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**

Levee District No. 0009 (Sutter County)

Waterway			Bank	Unit Miles
Unit No. 01 Sutter County, Feather River			Right	6.25
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/17/2021 - 3/17/2021		10/27/2021 - 10/27/2021	
DWR Inspector	Brooks Weisser		Sterling York	
Accompanied By	Andrew Stresser LD0001S		Andrew Stresser LD0001S	

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 - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_LD0009_01_s _ 2013_4				
Comment Code					
Inspector Comment					
LD 9 has flood fight supplies on hand and coordinates with other local levee districts in the flood fight supply staging program.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_LD0009_01_s _ 2013_5				
Comment Code					
Inspector Comment					
The levee district has stated in the past that they have a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_LD0009_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The district has attended the Flood Fight class put on by RD 784 and DWR.					

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 - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start	0.05	Rating **	M	Issue No.	21
LM End	0.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.169200 °	39.169200 °
				-121.622607 °	-121.622607 °
DWR ID	17792				

Comment Code

Inspector Comment

DS_ID:17792
FS_ID:65983
EP_NO: 3823
Repair Type: Non-Urgent
EVAL Issue: Safety Issue
Crossing Status: Found
UCIP Comments: 01/21/2021 Record has been updated from No Action Needed to Non-Urgent. No maintenance or inspection records were made available to confirm line integrity through the levee. Multiple markers visible on LS shoulder and LS toe. Need to contact owner to obtain as-builts to determine alignment, maintenance and inspection records. (O. Magana - DWR UCIP)09/05/2017 Need to coordinate with LMA to determine if work has been completed through this section of the levee. Record drawings show fuel line present above the 200-year water surface elevation (WSE). Feather River Project Improvements began at Station (Sta) 844+75 (LD0001S about LM 10.70) to Sta 1433+83 (LD0009 about LM 5.74), refer to record drawings for the Feather River West Levee Improvement Plans Station 844+75 to 1433+83, Volume 3 project details. Project details include levee degrade and reconstruction with cutoff wall and existing cutoff wall sections throughout project limits. (DWR UCIP – O. Magana)12/01/2016 Small section at the beginning of the levee segment is still under construction and should be completed by 2017 according to LMA's contact Mike Morris and David Schmidl. Crossing is scheduled to be protected-in-place as referenced in the Feather River West Levee Improvements. (DWR UCIP – O. Magana)03/01/2013 Need better gas-line markings at levees. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 8-5/8-inch fuel line (8-inch referenced in record drawings) of an unknown material through the levee, 2.6 feet below the crown. Gas line marker found on the landside (LS) shoulder indicating location of crossing. Line does not cross levee at a 90 degree angle. Gas line marker also found approximately 650 feet south of crossing on west side of railroad (RR) tracks at beginning of curve in RR bridge, indicating location where pipe runs parallel to RR before it crosses levee at this location. (8 5/8-inch pipe through LD0009, RD0784, and NA0004 authorized under Permit No. 3823, 1962 - Southern Pacific Pipe Lines Inc.; name change completed under Permit No. 3823-1, 2013 - SFPP, LP operates as a subsidiary of Kinder Morgan, Inc.) [Additional Reference(s): DWR Levee Logs, 1993 and 2005. Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 3 of 6 Feather River West Levee Improvement Plans STA 844+75 to 1433+83, 2016, Record Drawings, CoNo 01-2013C_Vol3_Full-Size_Record Drawings, Sta 1132+25, Drawing No. G-111, Sheet 27, and C-130, Sheet 68]
FS Date: 1/20/2021

Photo 1 of 3 : UCIP_FA_2021_65983_16631.jpg



Gasline marker found on LS shoulder.

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

Levee Inspection Report By Mile - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start	0.05	Rating **	M	Issue No.	21 (cont)
LM End	0.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.169200 °	39.169200 °
				-121.622607 °	-121.622607 °
DWR ID	17792				

Photo 2 of 3 : UCIP_FA_2021_65983_74900.jpg



Gasline marker found appr. 650 ft south of crossing on west side of RR.

LM Start	0.05	Rating **	M	Issue No.	21 (cont)
LM End	0.05	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2021_65983_98248.jpg



Overview of levee crown looking upstream towards pipe crossing.

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

Levee Inspection Report By Mile - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start	0.10	Rating **	M	Issue No.	22
LM End	0.10	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170153 °	39.170153 °
				-121.622546 °	-121.622546 °
DWR ID	17790				

Comment Code

Inspector Comment

DS_ID:17790
FS_ID:65984
EP_NO: 1913
Repair Type: Non-Urgent
EVAL Issue: Safety Issue
Crossing Status: Found
UCIP Comments: 01/20/2021 Record has been updated from No Action Needed to Non-Urgent. No maintenance or inspection records were made available to confirm line integrity through the levee. Multiple markers visible on LS shoulder and toe. Need to contact owner to obtain as-builts to determine alignment, maintenance and inspection records. (O. Magana - DWR UCIP)09/05/2017 Need to coordinate with LMA to determine if work has been completed through this section of the levee. Record drawings show 16-inch line present above the 200-year water surface elevation (WSE). Feather River Project Improvements began at Station (Sta) 844+75 (LD0001S about LM 10.70) to Sta 1433+83 (LD0009 about LM 5.74), refer to record drawings for the Feather River West Levee Improvement Plans Station 844+75 to 1433+83, Volume 3 project details. Project details include levee degrade and reconstruction with cutoff wall and existing cutoff wall sections throughout project limits. (DWR UCIP – O. Magana)12/01/2016 Small section at the beginning of the levee segment is still under construction and should be completed by 2017 according to LMA's contact Mike Morris and David Schmidl. Crossing is scheduled to be protected-in-place as referenced in the Feather River West Levee Improvements. (DWR UCIP – O. Magana)03/01/2013 Need better gas-line markings at levees. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 16-inch steel gas line through the levee, 3.5 feet below the crown. Marker is visible on the landside (LS) toe. (16-inch pipe authorized under Permit No. 1913, 1954 – Pacific Gas and Electric Company [PG&E]; related 16-inch pipe installed approximately one mile upstream from the State Highway No. 20 bridge at Yuba City in LD0001S authorized under Permit No. 1924, 1954 – PG&E) [Additional Reference(s): DWR Levee Logs, 1993 and 2005] [Additional Reference(s): DWR Levee Logs, 1993 and 2005. Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 3 of 6 Feather River West Levee Improvement Plans STA 844+75 to 1433+83, 2016, Record Drawings, CoNo 01-2013C_Vol3_Full-Size_Record Drawings, Sta 1135+35, Drawing No. G-111, Sheet 27, and C-130, Sheet 68]
FS Date: 1/20/2021

Photo 1 of 3 : UCIP_FA_2021_65984_16633.jpg



Gasline marker at 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 - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start	0.10	Rating **	M	Issue No.	22 (cont)
LM End	0.10	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.170153 °	39.170153 °	
			-121.622546 °	-121.622546 °	
DWR ID	17790				

Photo 2 of 3 : UCIP_FA_2021_65984_16632.jpg



Close up of Gasline marker at LS toe.

LM Start	0.10	Rating **	M	Issue No.	22 (cont)
LM End	0.10	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2021_65984_98256.jpg



Overview of levee crown looking upstream towards pipe crossing.

LM Start	2.01	Rating **	M	Issue No.	7
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.196541 °	39.198458 °
				-121.625912 °	-121.627612 °
DWR ID	DWR_LD0009_01_f_2021_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual vegetation, Fall 2021.					

Photo 1 of 1 : FA_2021_LD0009_202_7_20211028_00011.jpg



Control the annual vegetation, Fall 2021.

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

Levee Inspection Report By Mile - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start	2.01	Rating **	M	Issue No.	8
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.196547 °	39.198468 °
				-121.625911 °	-121.627619 °
DWR ID	DWR_LD0009_01_f_2021_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual vegetation, Fall 2021.					

Photo 1 of 1 : FA_2021_LD0009_202_8_20211028_00012.jpg



Control the annual vegetation, Fall 2021.

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

Levee Inspection Report By Mile - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start	3.49	Rating **	M	Issue No.	23
LM End	3.49	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.217363 °	39.217363 °
				-121.628434 °	-121.628434 °
DWR ID	25521				
Comment Code					
Inspector Comment					
DS_ID:25521 FS_ID:66015 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: Levee Improvement Project Crossing Status: Found UCIP Comments: 01/20/2021 Record has been updated from No Action Needed to Non-Urgent. No permit was found authorizing the installation of this structure. CVFPB will need to review crossing to determine owner. (O. Magana - DWR UCIP)12/01/2016 New pipe section through the levee installed, pipe upgraded as part of the SBFCA Feather River West Levee Project. Need to coordinate with the CVFPB to identify the new permit issued for pipe upgrade. (DWR UCIP – O. Magana) FIELD_STRUCT_DESC: 20-inch cement mortar lined and coated steel drainage pipe through the levee, about 2 feet below the crown. Valve utility box (5-foot by 5-foot by 4-foot) with cover located on the waterside (WS) shoulder. Siphon breaker and air relief valve located inside utility box. 20-inch pipe ties to existing 20-inch pressure pipe on the LS. Paddle markers visible on landside (LS) near shoulder and toe. Existing storm drain pump station located on the LS toe at storm drain canal. Concrete headwall with guardrail and rip rap located at WS outlet. Paddle marker visible on WS toe. Flap gate located on the WS outlet. (new 20-inch pipe installed in 2015, no updated permit has been issued, owner of new pipe is Micheli Farms; existing 20-inch pipe was authorized under Permit No. 13657, 1983 - Justin Micheli, pipe through the levee was removed and replaced in 2015). [Additional Reference(s): DWR Levee Logs, 1993 and 2005. Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 3 of 6 Feather River West Levee Improvement Plans STA 844+75 to 1433+83, 2016, Record Drawings, CoNo 01-2013C_Vol3_Full-Size_Record Drawings, Sta 1314+80, Drawing No. G-117, Sheet 33, C-148, Sheet 86, and C-535, Sheet 235. SBFCA FRWLP improvements for the following Local Maintaining Agencies (LMAs) include ST0005, MA0007, MA0016, LD0009, and LD0001S work authorized under Permit No(s). 18793, 18793-1, 18793-2, 18793-3, 18793-4, 18793-5, 18793-6]. FS Date: 1/20/2021					

Photo 1 of 3 : UCIP_FA_2021_66015_77453.jpg



LS view: paddle markers located on LS shoulder and LS toe. Pump and concrete box located inside canal.

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

Levee Inspection Report By Mile - Fall 2021

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	10/27/2021 10/27/2021	Sterling York

LM Start	3.49	Rating **	M	Issue No.	23 (cont)
LM End	3.49	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.217363 °	39.217363 °	
			-121.628434 °	-121.628434 °	
DWR ID	25521				

Photo 2 of 3 : UCIP_FA_2021_66015_77459.jpg



Overview of levee crown looking downstream at crossing.

LM Start	3.49	Rating **	M	Issue No.	23 (cont)
LM End	3.49	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2021_66015_77456.jpg



WS view: overview of WS slope and berm.

LM Start	5.66	Rating **	M	Issue No.	20
LM End	6.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.247349 °	39.252258 °
				-121.637341 °	-121.637077 °
DWR ID	DWR_LD0009_01_f_2016_20				
Comment Code					
DT : Ditch					
Inspector Comment					
A ditch is located at the toe of the levee on the landside.					

Photo 1 of 1 : FA_2021_LD0009_202_20_20211028_00013.jpg



View looking upstream of ditch at the toe of the levee on the landside, Fall 2021.

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