

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/18/2020 03/18/2020	Sterling York

LM Start		Rating **	A	Issue No.	<b>3</b>
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			o	
				o	
DWR ID	DWR_MA0016_01_s_2013_3				
Comment Code					
Inspector Comment					
The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	<b>4</b>
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			o	
				o	
DWR ID	DWR_MA0016_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter maintenance yard employees attend the annual Flood Fight class put on by DWR.					

No Photos

LM Start		Rating **	A	Issue No.	<b>5</b>
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			o	
				o	
DWR ID	DWR_MA0016_01_s_2013_5				
Comment Code					
Inspector Comment					
Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	4.06	03/18/2020 03/18/2020	Sterling York

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>9</b>
LM End	<b>4.05</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.255854 °	39.310756 °	
			-121.636401 °	-121.637697 °	
DWR ID	DWR_MA0016_01_s_2020_9				
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\_MA0016\_302\_9\_20200327\_00018.jpg



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

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>10</b>
LM End	<b>4.05</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.255854 °	39.310756 °	
			-121.636401 °	-121.637697 °	
DWR ID	DWR_MA0016_01_s_2020_10				
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\_MA0016\_302\_10\_20200327\_00017.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	4.06	03/18/2020 03/18/2020	Sterling York

LM Start	<b>1.42</b>	Rating **	M	Issue No.	<b>12</b>
LM End	<b>1.42</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.275979 °	39.275979 °	
			-121.632560 °	-121.632560 °	
DWR ID	DWR_MA0016_01_s_2020_12				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove tall weeds on levee slope, Spring 2020.					

Photo 1 of 1 : SP\_2020\_MA0016\_302\_12\_20200327\_00020.jpg



View looking upstream landside at tall weeds on levee slope, Spring 2020.

LM Start	<b>1.86</b>	Rating **	M	Issue No.	<b>13</b>
LM End	<b>1.86</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.282120 °	39.282120 °	
			-121.632119 °	-121.632119 °	
DWR ID	DWR_MA0016_01_s_2020_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Limbs need to be trimmed for access, Spring 2020.					

Photo 1 of 1 : SP\_2020\_MA0016\_302\_13\_20200327\_00021.jpg



View looking upstream landside at limbs that need to be trimmed for access, Spring 2020.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/18/2020 03/18/2020	Sterling York

LM Start	<b>3.39</b>	Rating **	M	Issue No.	<b>17</b>
LM End	<b>3.39</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.301218 °	39.301218 °	
			-121.638332 °	-121.638332 °	
DWR ID	17125				

**Comment Code**

**Inspector Comment**

DS\_ID:17125  
 FS\_ID:56164  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: 03/16/2020 During the fall of 2019, the two 24-inch pipes were abandoned in-place through section of the levee. A 2-foot section of the pipe ends on both the WS and LS were removed and disposed. The pipe annular void was filled with cement with aggregate as per Title 23 requirements. Both the WS and LS existing concrete headwalls were removed. Record has been downgraded from Urgent to Non-Urgent, need to coordinate with the CVFPB regarding the final documentation issued (potential permit) for the proper abandonment of these crossings. (O. Magana - DWR UCIP) 05/22/2019 No internal inspection was completed due to the poor condition of the pipe. The internal inspection was abandoned. Signs of pipe failure (holes along pipe wall, see DMP internal inspection report) found at the LS entrance. Pipe has been upgraded from Non-Urgent to Urgent due to the signs of structural failure of pipe. (O. Magana - DWR UCIP)05/22/2017 LS inlet buried. WS access being blocked off by over grown vegetation. Pipe has been selected for internal cleaning and inspection as part of the DMP project. (DWR Sutter Yard - AFreitag)12/01/2016 LS inlet completely buried. (DWR Sutter Yard - AFreitag)05/26/2016 LS inlet was completely buried.06/08/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/14/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Concrete headwall on LS toe is cracked through middle and pipe is buried in soil. pipe appears corroded. (DWR UCIP - W. Wylie)  
 FIELD\_STRUCT\_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown, grouted through the levee in 2019. Concrete headwalls on both the waterside (WS) and the landside (LS) ends, removed in 2019. Flap gate on the WS end, removed in 2019. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955, (Station 646+96), listed as two 24-inch steel pipes. USACE As-built Drawing No. 50-04-2193 A-8, Sheet 6, page 6 of 8 pdf file, Mar 1944. Sutter Butte Flood Control Agency (SBFCA), 2019, Abandoned In-Place Structure. Record Drawings for Reach 25 Pipe Penetration Abandonment Project, Volume 3 of 3, Improvement Plans, STA 1639+00, 2019.10.11O\_SBFCA\_Reach\_25\_Pipeo\_Penetration\_Abandonmento\_Record\_Drawings.pdf, C-501, Sheet 8, page 8 of 10].  
 FS Date: 5/22/2019 3:47:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_56164\_65782.jpg



Headwall at LS toe is cracked and the inlet is buried in soil.

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Unit No. 01 Feather River	Right	4.06	03/18/2020 03/18/2020	Sterling York

LM Start	<b>3.39</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>3.39</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.301218 °	39.301218 °
				-121.638332 °	-121.638332 °
DWR ID	17125				

Photo 2 of 3 : UCIP\_SP\_2020\_56164\_65781.jpg



Headwall on WS toe with flap gates.

LM Start	<b>3.39</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>3.39</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56164\_81059.jpg



WS view: overview of WS.

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Unit No. 01 Feather River	Right	4.06	03/18/2020 03/18/2020	Sterling York

LM Start	<b>4.07</b>	Rating **	M	Issue No.	<b>19</b>
LM End	<b>4.07</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.311127 °	39.311127 °	
			-121.637606 °	-121.637606 °	
DWR ID	17123				
Comment Code					
Inspector Comment					
DS_ID:17123 FS_ID:55881 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/22/2019 Record has been updated from No Action Needed to Non-Urgent, need to clarify owner. Unclear the purpose of this pipe. The pipe transfers water from LS to WS and then the flow is diverted via a WS canal that runs parallel along levee for about 0.92 miles. This crossing might be used to irrigate orchards located on the WS. Need to contact owner to clarify purpose of this structure. (O. Magana - DWR UCIP)05/22/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)12/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)05/26/2016 Crossing appears to be in good condition.06/08/2015 Pipe appears to be in good condition. No noticeable issues to report. Pipe was listed to be replaced with the SBFCA project but the project did not take place in this area.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/14/2013 Slide gate opened allowing water to flow through, debris problem has been cleared and the gates seem to be functioning properly. SBFCA project recommends replacing in accordance with title 23.12/11/2012 Lock missing from concrete well access door-this should be replaced. Some debris blocking preventing flap gate from completely closing. (DWR UCIP - W. Wylie) FIELD_STRUCT_DESC: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 20.5 feet below the crown. Slide gate in a concrete well on the waterside (WS) slope. Siphon breaker/air vent on the WS shoulder at the concrete well. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955, (Station 683+25)]. FS Date: 5/22/2019 3:50:00 PM					

Photo 1 of 3 : UCIP\_SP\_2020\_55881\_65785.jpg



Slide gate, concrete well, siphon breaker/air vent and open channel on WS of levee.

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