

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			o	o
				o	o
DWR ID	DWR_MA0012_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			o	o
				o	o
DWR ID	DWR_MA0012_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			o	o
				o	o
DWR ID	DWR_MA0012_01_s_2013_14				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2017.					

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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	1.38	Rating **	A/W	Issue No.	42 (cont)
LM End	1.38	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.051280 °	39.051280 °	
			-122.002981 °	-122.002981 °	
DWR ID	17147				
Comment Code					
Inspector Comment					
DS_ID:17147 FS_ID:51780 EP_NO: 9382 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity for the LS.(DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing is in good condition. No issues.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 1.40] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.4)]. FS Date: 5/2/2017 1:40:20 PM					

Photo 3 of 3 : UCIP_FA_2019_51780_68975.jpg



Concrete U shaped headwall 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	1.77	Rating **	A/W	Issue No.	45 (cont)
LM End	1.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.056847°	39.056847°
				-122.003288°	-122.003288°
DWR ID	17150				
Comment Code					
Inspector Comment					
<p>DS_ID:17150 FS_ID:51785 EP_NO: 9387 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition. Attached photo showing location of LS inlet.5/4/2015 WS flapgate mostly underwater but could tell it was blocked open by something. LS inlet is located about 1/4 mile north along the side of the roadway.6/17/2014 Same as last inspection.12/16/2013 Pipe was flowing water and flap gate was bing pushed open. Cannot verify if it will close all the way.7/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet.10/11/2012 No inlet could be located on LS. Flap gate partially blocked and will not close completely. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate in 60-inch riser on the waterside (WS) slope. Flap gate and concrete headwall on the WS. (48-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9387, 1974 - Laurreta S. Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.8)]. FS Date: 5/2/2017 1:56:07 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_51785_75168.jpg



Arrow showing ocaion of LS inlet

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	4.22	Rating **	A/W	Issue No.	50
LM End	4.22	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.089551 °	39.089551 °	
			-122.015241 °	-122.015241 °	
DWR ID	17156				
Comment Code					
Inspector Comment					
<p>DS_ID:17156 FS_ID:51792 EP_NO: 9388 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump on a 60-inch concrete standpipe at the landside (LS) toe. (24-inch pipe [HLM 4.32] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 4.32)]. FS Date: 5/2/2017 2:20:21 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_51792_69017.jpg



Pump on Concrete riser at LS toe.

LM Start	4.22	Rating **	A/W	Issue No.	50 (cont)
LM End	4.22	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_51792_69016.jpg



Pipe through levee at LS slope.

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	5.01	Rating **	M	Issue No.	53
LM End	5.01	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.100898°	39.100898°	
			-122.016078°	-122.016078°	
DWR ID	17191				
Comment Code					
Inspector Comment					
DS_ID:17191 FS_ID:51796 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard- AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard- AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wwyllie) FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 5.12)]. FS Date: 5/2/2017 2:31:39 PM					

Photo 1 of 3 : UCIP_FA_2019_51796_69030.jpg



Apparent inlet clogged with concrete or grout on LS toe in drainage swale.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	5.01	Rating **	M	Issue No.	53 (cont)
LM End	5.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.100898°	39.100898°
				-122.016078°	-122.016078°
DWR ID	17191				
Comment Code					
Inspector Comment					
<p>DS_ID:17191 FS_ID:51796 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard- AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard- AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wylie) FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 5.12)]. FS Date: 5/2/2017 2:31:39 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_51796_69029.jpg



Outlet on WS toe.

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	5.01	Rating **	M	Issue No.	53 (cont)	
LM End	5.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			39.100898°	39.100898°	
				-122.016078°	-122.016078°	
DWR ID	17191					
Comment Code						
Inspector Comment						
DS_ID:17191 FS_ID:51796 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard- AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard- AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wwyllie) FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 5.12)]. FS Date: 5/2/2017 2:31:39 PM						

Photo 3 of 3 : UCIP_FA_2019_51796_69028.jpg



Concrete U shaped headwall and flap gate 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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Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	5.90	Rating **	A/W	Issue No.	54
LM End	5.90	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.113840°	39.113840°
				-122.017736°	-122.017736°
DWR ID	17190				
Comment Code					
Inspector Comment					
DS_ID:17190 FS_ID:51797 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. Pipe was field verified to be 48inch cmp. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 22 feet below the crown. Concrete headwalls at both the waterside (WS) and the landside (LS) ends with flap gate on the WS. 36-inch corrugated metal pipe (CMP) riser on the LS toe with steel pipe extension for overflow weir of LS ditch. Walkway and pump not associated with this crossing. (Automatic board order (ABO) issued as Permit No. 8234, 1972 - Glenn Irrigation District, for 36-inch, not 48-inch). [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 6.04, Drawing No. 50-4-3081, Sheet 16)]. FS Date: 5/2/2017 2:33:13 PM					

Photo 1 of 3 : UCIP_FA_2019_51797_69034.jpg



36-inch CM standpipe with steel pipe extension for weir on LS toe. pump not associated with storm drain crossing.

LM Start	5.90	Rating **	A/W	Issue No.	54 (cont)
LM End	5.90	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_51797_69033.jpg



36-inch CM standpipe with steel pipe extension for weir 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	5.96	Rating **	A/W	Issue No.	55 (cont)
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.114633 °	39.114633 °
				-122.017848 °	-122.017848 °
DWR ID	17161				
Comment Code					
Inspector Comment					
<p>DS_ID:17161 FS_ID:51798 EP_NO: 9390 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 20.3 feet below the crown. Concrete headwall and cobble revetted spillway on the waterside (WS). Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete headwall located on the landside (LS). (48-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 6.10)]. FS Date: 5/2/2017 2:34:03 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_51798_69040.jpg



Concrete headwall with slide gate at LS toe.

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	58 (cont)
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.114977°	39.114977°
				-122.017947°	-122.017947°
DWR ID	17199				
Comment Code					
Inspector Comment					
<p>DS_ID:17199 FS_ID:51803 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Pipe appears to be in good condition. Minor erosion above the LS pump house. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Minor oil leak on pump. FIELD_STRUCT_DESC: 3 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 16-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 6.13)]. FS Date: 5/2/2017 2:37:23 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_51803_69079.jpg



Pipe at exit from pumphouse.

LM Start	6.83	Rating **	C	Issue No.	2
LM End	6.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.126359°	39.126359°
				-122.022732°	-122.022732°
DWR ID	DWR_MA0012_01_s_2019_2				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
There is minor sloughing on the landside shoulder.					

No Photos

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	9.02	Rating **	A/W	Issue No.	35
LM End	9.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.157957°	39.158226°
				-122.021950°	-122.021950°
DWR ID	DWR_MA0012_01_f_2018_35				
Comment Code					
Inspector Comment					
2017 Site ID: SYC 9.3 L Status: Eroding 2017 Field Notes: Access Issues - Could not observe Site History: 2011 - Erosion occurring upstream and downstream of an irrigation diversion structure.					

Photo 1 of 2 : FA_2019_MA0012_299_35_20190829_00005.jpg



View of diversion structure. Fall 2018.

LM Start	9.02	Rating **	A/W	Issue No.	35 (cont)
LM End	9.04	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_MA0012_299_35_20190829_00006.jpg



Upstream view of Colusa Basin from the diversion structure. Fall 2018.

LM Start	9.07	Rating **	C	Issue No.	39
LM End	9.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.158663°	39.158663°
				-122.021713°	-122.021713°
DWR ID	DWR_MA0012_01_f_2018_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There seems to be recent activity in a single hole. Recommend monitoring.					

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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	9.12	Rating **	U	Issue No.	61
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.159477°	39.159477°	
			-122.021839°	-122.021839°	
DWR ID	17167				

Comment Code

Inspector Comment

DS_ID:17167
 FS_ID:53013
 EP_NO: 9389
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 10/5/2018 Flap gate was installed at WS end of the pipe. Pipe is excessively corroded looking inside from WS end. Video inspection is recommended. Cracks more than 1-inch wide were observed on WS slope around pipe alignment that may be a sign of slope instability. (O.Yakimov - DWR UCIP)5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard-AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.
 FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate on the waterside (WS). Concrete headwall on the landside (LS). Pump on steel structure in slough on the LS. Pump discharges into a 42-inch corrugated metal pipe (CMP) riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.33)].
 FS Date: 10/5/2018 3:16:10 PM

Photo 1 of 3 : UCIP_FA_2019_53013_78165.jpg



Pumping plant at LS 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
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	9.12	Rating **	U	Issue No.	61 (cont)
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.159477°	39.159477°
				-122.021839°	-122.021839°
DWR ID	17167				

Photo 2 of 3 : UCIP_FA_2019_53013_76060.jpg



View inside of pipe from the WS

Comment Code					

Inspector Comment

DS_ID:17167
 FS_ID:53013
 EP_NO: 9389
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 10/5/2018 Flap gate was installed at WS end of the pipe. Pipe is excessively corroded looking inside from WS end. Video inspection is recommended. Cracks more than 1-inch wide were observed on WS slope around pipe alignment that may be a sign of slope instability. (O.Yakimov - DWR UCIP)5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard-AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.
 FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate on the waterside (WS). Concrete headwall on the landside (LS). Pump on steel structure in slough on the LS. Pump discharges into a 42-inch corrugated metal pipe (CMP) riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.33)].
 FS Date: 10/5/2018 3:16:10 PM

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	9.12	Rating **	U	Issue No.	61 (cont)
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.159477°	39.159477°
				-122.021839°	-122.021839°
DWR ID	17167				
Comment Code					
Inspector Comment					
<p>DS_ID:17167 FS_ID:53013 EP_NO: 9389 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/5/2018 Flap gate was installed at WS end of the pipe. Pipe is excessively corroded looking inside from WS end. Video inspection is recommended. Cracks more than 1-inch wide were observed on WS slope around pipe alignment that may be a sign of slope instability. (O.Yakimov - DWR UCIP)5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard-AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate on the waterside (WS). Concrete headwall on the landside (LS). Pump on steel structure in slough on the LS. Pump discharges into a 42-inch corrugated metal pipe (CMP) riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.33)]. FS Date: 10/5/2018 3:16:10 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_53013_78159.jpg



View of levee crown at crossing.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	9.39	Rating **	A/W	Issue No.	32
LM End	9.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.163288°	39.163288°	
			-122.021859°	-122.021859°	
DWR ID	DWR_MA0012_01_f_2019_32				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Single rodent hole on the landside slope. LMA placed bait station at the toe. Recommend monitoring for activity.					

No Photos

LM Start	10.92	Rating **	M	Issue No.	62
LM End	10.92	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.180039°	39.180039°	
			-122.014266°	-122.014266°	
DWR ID	17157				
Comment Code					
Inspector Comment					
DS_ID:17157 FS_ID:51810 EP_NO: 9386 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/17/2016 Abandoned crossing. (DWR Sutter Yard- AFreitag)5/31/2016 Abandoned crossing. Both pipe ends and slide gate inside of riser are buried.5/4/2015 Both pipe ends and slide gate in riser are plugged with soil. Crossing is inoperable.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Slide gate in a 36-inch riser on the waterside (WS) shoulder. Levee turns eastward. (24-inch pipe [HLM 11.17] authorized under Automatic Board Order (ABO) issued as Permit No. 9386, 1974 - C. J. Wescott Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 11.17)]. FS Date: 5/2/2017 2:51:53 PM					

Photo 1 of 2 : UCIP_FA_2019_51810_69115.jpg



cover on 36-inch CMP standpipe on WS slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	10/09/2019 10/09/2019	Zach Jojola

LM Start	10.92	Rating **	M	Issue No.	62 (cont)
LM End	10.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.180039°	39.180039°
				-122.014266°	-122.014266°
DWR ID	17157				
Comment Code					
Inspector Comment					
<p>DS_ID:17157 FS_ID:51810 EP_NO: 9386 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/17/2016 Abandoned crossing. (DWR Sutter Yard- AFreitag)5/31/2016 Abandoned crossing. Both pipe ends and slide gate inside of riser are buried.5/4/2015 Both pipe ends and slide gate in riser are plugged with soil. Crossing is inoperable.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Slide gate in a 36-inch riser on the waterside (WS) shoulder. Levee turns eastward. (24-inch pipe [HLM 11.17] authorized under Automatic Board Order (ABO) issued as Permit No. 9386, 1974 - C. J. Wescott Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 11.17)]. FS Date: 5/2/2017 2:51:53 PM</p>					

Photo 2 of 2 : UCIP_FA_2019_51810_69114.jpg



Bent and broken actuator on slide gate in 36-inch CMP. Pipe appears to be filled with soil.

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