

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0010 Sutter Maintenance Yard Wadsworth Canal	Overall LMA Rating	Total LMA Miles						
	U	9.22						
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>								
Animal Control	0.04	0.01	0.08	0.87%				
Slope Stability	0.04		0.04	0.43%				
Erosion / Bank Caving	0.01	0.02	0.09	0.98%				
<i>Supplemental</i>								
2017 USACE Erosion Survey	2.80		2.80	30.36%				
DRAFT DWR UCIP Field Study					0.23	0.03		
<i>LMA Totals:</i>	2.89	0.03	3.01	32.63%	0.23	0.03	0.00	0.00

Unit No. 01 Wadsworth Canal LB ST0010	Overall Unit Rating	Total Unit Miles						
	U	4.63						
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>								
Animal Control	0.03		0.03	0.65%				
Slope Stability	0.02		0.02	0.43%				
Erosion / Bank Caving	0.01	0.02	0.09	1.95%				
<i>Supplemental</i>								
2017 USACE Erosion Survey	2.80		2.80	60.53%				
DRAFT DWR UCIP Field Study					0.10	0.01		
<i>Unit Totals:</i>	2.86	0.02	2.94	63.55%	0.10	0.01	0.00	0.00

Unit No. 02 Wadsworth Canal RB ST0010	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
	M *	4.60						
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>								
Animal Control	0.01	0.01	0.05	1.09%				
Slope Stability	0.02		0.02	0.44%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.13	0.02		
<i>Unit Totals:</i>	0.03	0.01	0.07	1.52% *	0.13	0.02	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2019 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

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

** 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

Fall 2019 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

Waterway		Bank	Unit Miles	
Unit No. 01 Wadsworth Canal		Left	4.63	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/8/2019 - 5/8/2019		10/8/2019 - 10/8/2019	
DWR Inspector	Makar Sokol		Makar Sokol	
Accompanied By	David Julian DWR DFM			

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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway			Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal			Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start		Rating **	A	Issue No.	10
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_ST0010_01_s_2013_10				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	11
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_ST0010_01_s_2013_11				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	12
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_ST0010_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2018.					

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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	0.02	Rating **	M	Issue No.	108
LM End	0.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.113670 °	39.113670 °
				-121.768310 °	-121.768310 °
DWR ID	17068				
Comment Code					
Inspector Comment					
DS_ID:17068 FS_ID:55976 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/07/2019 Record remains Non-Urgent, unable to locate pipe or any appurtenances on the levee. LMA superintendent, Joel Farias, mentioned that this line has been abandoned and line is only referenced in old PG&E facility maps. Owner to this pipe has been changed at least 4 times. No maintenance records were available to determine the status of the pipe. Unable to confirm how pipe was abandoned. Will need to contact owner. (O. Magana - DWR UCIP)04/10/2017 Unable to locate. (DWR Sutter Yard - AFreitag)10/12/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/19/2016 Unable to locate.05/12/2015 Unable to locate.11/18/2014 Unable to locate.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Need to determine disposition of pipe, contact pipe owner if possible. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. Waterside (WS) bank protected by rock. (3-inch line authorized under Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 2:48:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55976_78653.jpg



WS view: Clean slope with no evidence of line present.

LM Start	0.02	Rating **	M	Issue No.	108 (cont)
LM End	0.02	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55976_78654.jpg



Overview of levee crown at location where crossing should be.

* 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	0.02	Rating **	M	Issue No.	108 (cont)
LM End	0.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.113670 °	39.113670 °
				-121.768310 °	-121.768310 °
DWR ID	17068				
Comment Code					
Inspector Comment					
DS_ID:17068 FS_ID:55976 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/07/2019 Record remains Non-Urgent, unable to locate pipe or any appurtenances on the levee. LMA superintendent, Joel Farias, mentioned that this line has been abandoned and line is only referenced in old PG&E facility maps. Owner to this pipe has been changed at least 4 times. No maintenance records were available to determine the status of the pipe. Unable to confirm how pipe was abandoned. Will need to contact owner. (O. Magana - DWR UCIP)04/10/2017 Unable to locate. (DWR Sutter Yard - AFreitag)10/12/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/19/2016 Unable to locate.05/12/2015 Unable to locate.11/18/2014 Unable to locate.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Need to determine disposition of pipe, contact pipe owner if possible. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. Waterside (WS) bank protected by rock. (3-inch line authorized under Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 2:48:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55976_78655.jpg



LS view: No markers visible on LS.

LM Start	0.06	Rating **	A/W	Issue No.	20
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.114203 °	39.114842 °
				-121.768015 °	-121.767382 °
DWR ID	DWR_ST0010_01_f_2016_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_20_20190822_00013.jpg



View of the erosion along the waterside 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	0.29	Rating **	M	Issue No.	26
LM End	0.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.116873°	39.116873°
				-121.765493°	-121.765493°
DWR ID	DWR_ST0010_01_f_2019_26				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_26_20191011_00052.jpg



View of the rodent burrows on the waterside slope. Fall 2019.

LM Start	0.32	Rating **	M	Issue No.	27
LM End	0.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.117218°	39.117218°
				-121.765165°	-121.765165°
DWR ID	DWR_ST0010_01_f_2019_27				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.38	Rating **	A/W	Issue No.	19
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.117910°	39.117910°
				-121.764497°	-121.764497°
DWR ID	DWR_ST0010_01_f_2016_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_19_20190822_00012.jpg



View of the erosion along the waterside 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	0.44	Rating **	M	Issue No.	28
LM End	0.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.118566°	39.118566°	
			-121.763885°	-121.763885°	
DWR ID	DWR_ST0010_01_f_2019_28				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	0.50	Rating **	U	Issue No.	22
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.119348°	39.119348°	
			-121.763120°	-121.763120°	
DWR ID	DWR_ST0010_01_f_2017_22				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : FA_2019_ST0010_42_22_20190822_00014.jpg



View of the beaver hole along the waterside berm.

LM Start	0.56	Rating **	M	Issue No.	18
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.119985°	39.119985°	
			-121.762600°	-121.762600°	
DWR ID	DWR_ST0010_01_s_2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_18_20190822_00011.jpg



View of the erosion along the waterside toe caused by a tree that fell into the water.

* 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.21	Rating **	M	Issue No.	109
LM End	1.21	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.127566 °	39.127566 °
				-121.755282 °	-121.755282 °
DWR ID	17059				
Comment Code					
Inspector Comment					
<p>DS_ID:17059 FS_ID:55977 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Record remains Non-Urgent, pipe and appurtenances have been abandoned at this location. The pump and power meter have been removed from this location. Owner will need to coordinate with CVFPB to remove pipe according to Title 23 requirements. (O. Magana - DWR UCIP)04/10/2017 Abandoned. (DWR Sutter Yard- AFreitag)10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)04/16/2016 Abandoned crossing. Ws pipe end is open and should be capped.05/12/2015 Abandoned crossing. Needs to be properly abandoned.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 No pump on Pier and power lines cut. Apparently abandoned-should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe (permit records indicate 16-inch pipe, 18-inch diameter field verified) through the levee, 3.7 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on channel bank on steel structure. (16-inch pipe authorized under Permit No. 1605, 1959 - Schnabel; Aerial 12 KV power line extension for pump authorized under Permit No. 1631, 1959 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 2:48:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55977_78658.jpg



LS view: overview of LS looking downstream.

LM Start	1.21	Rating **	M	Issue No.	109 (cont)
LM End	1.21	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55977_78656.jpg



Overview of levee crown at pipe 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**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.21	Rating **	M	Issue No.	109 (cont)
LM End	1.21	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.127566°	39.127566°
				-121.755282°	-121.755282°
DWR ID	17059				
Comment Code					
Inspector Comment					
DS_ID:17059 FS_ID:55977 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Record remains Non-Urgent, pipe and appurtenances have been abandoned at this location. The pump and power meter have been removed from this location. Owner will need to coordinate with CVFPB to remove pipe according to Title 23 requirements. (O. Magana - DWR UCIP)04/10/2017 Abandoned. (DWR Sutter Yard- AFreitag)10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)04/16/2016 Abandoned crossing. Ws pipe end is open and should be capped.05/12/2015 Abandoned crossing. Needs to be properly abandoned.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 No pump on Pier and power lines cut. Apparently abandoned-should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe (permit records indicate 16-inch pipe, 18-inch diameter field verified) through the levee, 3.7 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on channel bank on steel structure. (16-inch pipe authorized under Permit No. 1605, 1959 - Schnabel; Aerial 12 KV power line extension for pump authorized under Permit No. 1631, 1959 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 2:48:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55977_78657.jpg



WS view: overview of WS looking downstream.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.22	Rating **	M	Issue No.	110
LM End	1.22	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.127674 °	39.127674 °
				-121.755182 °	-121.755182 °
DWR ID	17083				
Comment Code					
Inspector Comment					
DS_ID:17083 FS_ID:55978 EP_NO: 17478 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent, no records were made available to confirm the condition of the line through the levee. Will need to coordinate with owner to determine condition of line and obtain maintenance records for this line. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - aFreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing appears in good condition. No noticeable issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 8-inch steel gas line bored across and under Wadsworth Canal and its levees, approximately 30 and 60 feet below channel and levees. Line was replaced to allow for the county to replace bridge over Wadsworth Canal. Gas line markers present on Franklin Roadside. (8-inch gas line authorized and existing 12-inch line removed under Permit No. 17478 and 17478-R, 2002 - Pacific Gas & Electric Company [PG&E]). FS Date: 2/7/2019 2:49:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55978_78664.jpg



LS view: gas marker visible by gate located on LS toe near first power pole.

LM Start	1.22	Rating **	M	Issue No.	110 (cont)
LM End	1.22	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55978_78662.jpg



Overview of levee crown at 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.22	Rating **	M	Issue No.	110 (cont)
LM End	1.22	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.127674 °	39.127674 °
				-121.755182 °	-121.755182 °
DWR ID	17083				
Comment Code					
Inspector Comment					
DS_ID:17083 FS_ID:55978 EP_NO: 17478 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent, no records were made available to confirm the condition of the line through the levee. Will need to coordinate with owner to determine condition of line and obtain maintenance records for this line. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - aFreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing appears in good condition. No noticeable issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 8-inch steel gas line bored across and under Wadsworth Canal and its levees, approximately 30 and 60 feet below channel and levees. Line was replaced to allow for the county to replace bridge over Wadsworth Canal. Gas line markers present on Franklin Roadside. (8-inch gas line authorized and existing 12-inch line removed under Permit No. 17478 and 17478-R, 2002 - Pacific Gas & Electric Company [PG&E]). FS Date: 2/7/2019 2:49:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55978_78663.jpg



WS view: marker just immediately upstream from 18-inch 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.25	Rating **	M	Issue No.	111 (cont)
LM End	1.25	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.128027°	39.128027°
				-121.754849°	-121.754849°
DWR ID	17060				
Comment Code					
Inspector Comment					
<p>DS_ID:17060 FS_ID:55979 EP_NO: 13362 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent, unable to determine whether the old authorized conduit line was abandoned through the levee. The conduit appears to be modified to an aerial conduit. Need to contact owner to determine status of authorized line and determine permit issued for modification of the aerial line at the same location. (O. Magana - DWR UCIP)04/11/2017 Aerial lines. (DWR Sutter Yard-AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - aFreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing appears in good condition. No noticeable issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 No pipe on downstream side of bridge. It is likely that this com line is now an aerial. See photos. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 4-inch steel communication conduit with multiple telephone cables inside through the levee, 2.6 feet below the crown. Telephone cables sleeved through existing 4-inch conduit. The conduit is no longer attached to downstream side of bridge. It is likely that this communication line is now an aerial. (4-inch conduit authorized under Permit No. 6906, 1970 - Pacific Telephone and Telegraph Company [PT&T]. Telephone cables were installed through existing conduit authorized under Permit No. 13362, 1982 - PT&T). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 2:49:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55979_78668.jpg



LS view: no markers visible along LS or county road.

<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**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.28	Rating **	M	Issue No.	29
LM End	1.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.128352°	39.128352°
				-121.754575°	-121.754575°
DWR ID	DWR_ST0010_01_f_2019_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_29_20191011_00053.jpg



View of the slope erosion due to vehicle traffic. Fall 2019.

LM Start	1.75	Rating **	M	Issue No.	7
LM End	2.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.133887°	39.141757°
				-121.749526°	-121.742939°
DWR ID	DWR_ST0010_01_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.1 L Status: Eroding 2017 Field Notes: Minor new erosion observed. Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils.					

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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.85	Rating **	U	Issue No.	112 (cont)
LM End	1.85	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.135091°	39.135091°
				-121.748196°	-121.748196°
DWR ID	17063				
Comment Code					
Inspector Comment					
<p>DS_ID:17063 FS_ID:55500 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Pipe has been upgraded from Non-Urgent to Urgent due to the pipe failure (sink hole) observed on the LS. Need to determine pipe integrity through the levee. Pipe and appurtenances have been abandoned. Power meter has been removed from the WS. Scour hole has developed on the WS berm edge located about 15 feet from WS toe. Owner will need to coordinate with CVFPB to properly remove pipe per Title 23. (O. Magana - DWR UCIP)04/10/2017 Abandoned. 10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)04/19/2016 Abandoned crossing. No noticeable issues to report.05/12/2015 Abandoned crossing. Cap was made and installed on WS open end of pipe.11/18/2014 Same as last inspection.05/13/2014 Cap was made and bolted on to WS open end of pipe.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection. Steve Beckley is looking into finding pipe owner to properly abandon pipe.10/09/2012 Pipe abandoned. Pipe open and not plugged. Pipe should be removed or abandoned properly. Extensive animal burrowing occurring along pipe alignment. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 14-inch steel irrigation pipe (permit records reference 24-inch corrugated metal in 1939 and existing 18-inch pipe in 1932 through levee, USACE O&M references 15-inch pipe in 1953) through the levee, 5.7 feet below the crown. Siphon breaker located on the landside (LS). Vertical pump located on the waterside (WS). Meter pole located on the WS berm. (Permit authorized existing 18-inch pipe and new installation of pump under Permit No. 572, 1932 - Joaquin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 98+02), Dwg. No. 50-04-1949, page 1 of 3]. FS Date: 2/7/2019 2:52:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55500_78677.jpg



WS view: overview of WS.

<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**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.85	Rating **	U	Issue No.	107
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.135110°	39.135110°
				-121.748230°	-121.748230°
DWR ID	DWR_ST0010_01_f_2013_107				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Significant erosion is present at this site and should be addressed.					

Photo 1 of 3 : FA_2019_ST0010_42_107_20190822_00016.jpg



View of the erosion along both sides of the abandoned pump.

LM Start	1.85	Rating **	U	Issue No.	107 (cont)
LM End	1.85	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2019_ST0010_42_107_20190822_00017.jpg



View of the erosion along both sides of the abandoned pump.

LM Start	1.85	Rating **	U	Issue No.	107 (cont)
LM End	1.85	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2019_ST0010_42_107_20190822_00018.jpg



View of erosion along both sides of the abandoned pipe.

* 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	2.43	Rating **	M	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.142235°	39.153095°
				-121.742609°	-121.734390°
DWR ID	DWR_ST0010_01_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 L Status: Eroding 2017 Field Notes: Significant new erosion along lower bank. Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 3 of 4 : FA_2019_ST0010_42_6_20190822_00008.jpg



View of the erosion along the waterside toe.

LM Start	2.43	Rating **	M	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : FA_2019_ST0010_42_6_20190822_00009.jpg



View of the erosion along the waterside 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.01	Rating **	M	Issue No.	113
LM End	3.01	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.149185°	39.149185°
				-121.736715°	-121.736715°
DWR ID	17064				
Comment Code					
Inspector Comment					
DS_ID:17064 FS_ID:55501 EP_NO: 9191 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of line. Need to contact owner to determine status of line through the levee. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing appears in good condition. No noticeable issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.05/16/2013 Same as last inspection.10/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 6-inch (not 7-inch, as mentioned in the levee log) asphalt coated steel gas line through the levee, 1.1 feet below the crown. Gas line crosses the Wadsworth Canal and its levees. Gas line markers located on the landside (LS) and waterside (WS) toes. (6-inch gas line authorized under Permit No. 764, 1939 - Pacific Gas and Electric Company [PG&E]. Pipe reconstructed under Permit No. 9191, 1974 - PG&E). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 159+38), Dwg. No. 50-04-1949, page 2 of 3]. FS Date: 2/7/2019 2:52:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55501_78683.jpg



WS view: line crosses both left and right bank, markers visible on opposite levee.

LM Start	3.01	Rating **	M	Issue No.	113 (cont)
LM End	3.01	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55501_78681.jpg



Overview of levee crown at 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.04	Rating **	M	Issue No.	114
LM End	3.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.149549°	39.149549°
				-121.736408°	-121.736408°
DWR ID	17065				
Comment Code					
Inspector Comment					
<p>DS_ID:17065 FS_ID:55502 EP_NO: 7209 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Record remains Non-Urgent due to of few maintenance issues observed during inspection. Pipe is being used as a shooting target. Multiple holes are visible on the exposed WS section of the pipe. The inlet pipe section located on the LS has been damaged (pipe wall section pulled). This pipe qualifies as an LMA responsible crossing as it was originally listed in the USACE O&M manual as a drainage pipe. The CVFPB issued a permit in 1970 for the replacement of the original USACE drainage pipe. (O. Magana - DWR UCIP)04/10/2017 WS pipe end is in good condition. LS pipe end is still deformed and vegetated. (DWR Sutter Yard- AFreitag)10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch, USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR], replacement pipe size not referenced) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25), Dwg No. 50-04-1949, sheet 2 of 3]. FS Date: 2/7/2019 2:53:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55502_78688.jpg



LS view: overview of LS.

<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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.30	Rating **	M	Issue No.	115
LM End	3.30	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.153043°	39.153043°
				-121.734247°	-121.734247°
DWR ID	23097				
Comment Code					
Inspector Comment					
DS_ID:23097 FS_ID:55503 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Record remains Non-Urgent due to no permit found authorizing conduit through the levee. Carsonite marker lists CVIN as owner. Contact phone number listed on marker to be used before digging is 855-442-6010. Need to contact owner to determine permit used for installation of buried fiber optic cable. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. Photos added. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)05/31/2016 Need photos markers and levee overview (O. Magana)04/19/2016 Crossing appears to be in good condition. No permit on file.05/12/2015 No noticeable issues with crossing but no permit on file for it.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication line conduit through the levee, 2 feet below the crown. Fiber optics line attached to bottom of downstream side of South Butte Road bridge. Position marked with orange markers. No permit has been identified since crossing was field discovered in 2012. FS Date: 2/7/2019 2:53:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55503_76957.jpg



LS overview

LM Start	3.30	Rating **	M	Issue No.	115 (cont)
LM End	3.30	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55503_76953.jpg



Levee overview looking upstream.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.30	Rating **	M	Issue No.	115 (cont)
LM End	3.30	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.153043°	39.153043°
				-121.734247°	-121.734247°
DWR ID	23097				
Comment Code					
Inspector Comment					
<p>DS_ID:23097 FS_ID:55503 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Record remains Non-Urgent due to no permit found authorizing conduit through the levee. Carsonite marker lists CVIN as owner. Contact phone number listed on marker to be used before digging is 855-442-6010. Need to contact owner to determine permit used for installation of buried fiber optic cable. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. Photos added. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)05/31/2016 Need photos markers and levee overview (O. Magana)04/19/2016 Crossing appears to be in good condition. No permit on file.05/12/2015 No noticeable issues with crossing but no permit on file for it.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication line conduit through the levee, 2 feet below the crown. Fiber optics line attached to bottom of downstream side of South Butte Road bridge. Position marked with orange markers. No permit has been identified since crossing was field discovered in 2012. FS Date: 2/7/2019 2:53:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55503_76954.jpg



Conduit exiting WS slope and attaching to the downstream side of South Butte Rd bridge.

LM Start	3.32	Rating **	M	Issue No.	25
LM End	4.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.153296°	39.170973°
				-121.734304°	-121.726852°
DWR ID	DWR_ST0010_01_f_2018_25				
Comment Code					
Inspector Comment					
<p>2017 Site ID: WAC 4.4 L Status: Eroding New 2017 Field Notes: Significant lower bank erosion and overall slumping. Site History:</p>					

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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.50	Rating **	M	Issue No.	116
LM End	3.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.155752°	39.155752°
				-121.733115°	-121.733115°
DWR ID	17066				

Comment Code

Inspector Comment

DS_ID:17066
 FS_ID:55504
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 02/07/2019 Record remains Non-Urgent, this crossing has been modified. Also, unable to determine if the 24-inch pipe referenced in the levee logs still exists through the levee. There is a 14-inch steel pipe on the WS, a 16-inch steel riser on the WS, and a 16-inch PVC pipe located on the LS. No permit was found authorizing the modifications at this location. The 4-foot by 6-foot concrete distribution box has been removed from the WS. Some settling (minor depression) is present where the distribution box might have been previously located. Need to contact owner to determine CVFPB permit issued for the modifications at this location. (O. Magana - DWR UCIP)01/28/2019 USACE O&M dwg shows 12-inch and 24-inch on LS. (O. Magana - DWR UCIP)
 04/10/2017 LS heavily vegetated but nothing appears to have changed with the crossing. LS headwall still silted in and pipe discharges directly into the rice field. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.04/19/2016 Crossing has not changed since the last inspection. LS headwall is silted in and not being used. LS pipe end discharges into the rice field.05/12/2015 Concrete headwall on LS is completely silted in. LS pipe end is located near the edge of rice field. No issues seen on WS.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Concrete headwall is silted in and appears to be abandoned. Discharge end of pipe is approx. 100ft. from LS toe on the edge of the rice field.05/16/2013 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch steel irrigation pipe (USACE O&M refers to 24-inch corrugated metal pipe, 14-inch pipe [measured] connected to pump) through the levee, 11 feet below the crown. Slide gate in 4-foot by 6-foot concrete distribution box located at the waterside (WS) toe. (not found in 2012) Vertical pump mounted on a steel structure in channel. Service pole on the berm with 16-inch (measured) standpipe located on the WS toe. Concrete "U" shaped headwall located on the landside (LS) toe. Field measurements taken during site visit (2019): 14-inch steel pipe on WS, 16-inch steel riser on the WS, and 16-inch PVC pipe on the LS. [Additional Reference(s): DWR Levee Log, 2005, 24-inch pipe referenced. USACE Sacramento O&M Manual 135, May 1953, (Station 184+87), Dwg. No. 50-04-1949, page 2 of 3].
 FS Date: 2/7/2019 2:54:00 PM

Photo 1 of 3 : UCIP_FA_2019_55504_78704.jpg



Overview of levee crown lookin downstream towards crossing.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.50	Rating **	M	Issue No.	116 (cont)
LM End	3.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.155752°	39.155752°
				-121.733115°	-121.733115°
DWR ID	17066				

Comment Code

Inspector Comment

DS_ID:17066
 FS_ID:55504
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 02/07/2019 Record remains Non-Urgent, this crossing has been modified. Also, unable to determine if the 24-inch pipe referenced in the levee logs still exists through the levee. There is a 14-inch steel pipe on the WS, a 16-inch steel riser on the WS, and a 16-inch PVC pipe located on the LS. No permit was found authorizing the modifications at this location. The 4-foot by 6-foot concrete distribution box has been removed from the WS. Some settling (minor depression) is present where the distribution box might have been previously located. Need to contact owner to determine CVFPB permit issued for the modifications at this location. (O. Magana - DWR UCIP)01/28/2019 USACE O&M dwg shows 12-inch and 24-inch on LS. (O. Magana - DWR UCIP)
 04/10/2017 LS heavily vegetated but nothing appears to have changed with the crossing. LS headwall still silted in and pipe discharges directly into the rice field. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.04/19/2016 Crossing has not changed since the last inspection. LS headwall is silted in and not being used. LS pipe end discharges into the rice field.05/12/2015 Concrete headwall on LS is completely silted in. LS pipe end is located near the edge of rice field. No issues seen on WS.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Concrete headwall is silted in and appears to be abandoned. Discharge end of pipe is approx. 100ft. from LS toe on the edge of the rice field.05/16/2013 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch steel irrigation pipe (USACE O&M refers to 24-inch corrugated metal pipe, 14-inch pipe [measured] connected to pump) through the levee, 11 feet below the crown. Slide gate in 4-foot by 6-foot concrete distribution box located at the waterside (WS) toe. (not found in 2012) Vertical pump mounted on a steel structure in channel. Service pole on the berm with 16-inch (measured) standpipe located on the WS toe. Concrete "U" shaped headwall located on the landside (LS) toe. Field measurements taken during site visit (2019): 14-inch steel pipe on WS, 16-inch steel riser on the WS, and 16-inch PVC pipe on the LS. [Additional Reference(s): DWR Levee Log, 2005, 24-inch pipe referenced. USACE Sacramento O&M Manual 135, May 1953, (Station 184+87), Dwg. No. 50-04-1949, page 2 of 3].
 FS Date: 2/7/2019 2:54:00 PM

Photo 3 of 3 : UCIP_FA_2019_55504_78702.jpg



LS view: power pole located on LS.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal		Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.53	Rating **	A/W	Issue No.	3
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.156225°	39.156639°	
			-121.732930°	-121.732755°	
DWR ID	DWR_ST0010_01_s_2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_3_20190822_00001.jpg



View of the erosion along the waterside toe.

LM Start	3.65	Rating **	A/W	Issue No.	4
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.157861°	39.157861°	
			-121.732238°	-121.732238°	
DWR ID	DWR_ST0010_01_s_2012_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_4_20190822_00003.jpg



View of the erosion along the waterside toe.

LM Start	3.84	Rating **	A/W	Issue No.	17
LM End	3.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.160442°	39.162235°	
			-121.731067°	-121.730912°	
DWR ID	DWR_ST0010_01_f_2014_17				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0010_42_17_20190822_00010.jpg



View of the erosion along the waterside 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	10/08/2019 10/08/2019	Makar Sokol

LM Start	4.32	Rating **	M	Issue No.	118
LM End	4.32	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.167098°	39.167098°
				-121.728341°	-121.728341°
DWR ID	17058				
Comment Code					
Inspector Comment					
<p>DS_ID:17058 FS_ID:55506 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent, unable to confirm status of pipe through the levee. Unable to locate pipe or appurtenances through this section of the levee. The DWR DMP geophysical investigation report indicates no signal received of suggestive target. Record will remain in UCIP's inspection records until future Levee Improvement Project can confirm no crossing was found through the levee. (O. Magana - DWR UCIP)04/10/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/12/2016 Unable to locate.04/19/2016 Unable to locate.05/12/2015 Unable to locate.11/18/2014 Unable to locate.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/9/2012 unable to locate FIELD_STRUCT_DESC: 12-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Pipe is open at both the waterside (WS) and landside (LS) ends. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 228+00), Dwg No. 50-04-1949, page 2 of 3, 12-inch CMP referenced at 228+25]. FS Date: 2/7/2019 12:13:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55506_78707.jpg



WS view: overview of WS, no signs of pipe.

LM Start	4.32	Rating **	M	Issue No.	118 (cont)
LM End	4.32	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55506_78708.jpg



Overview of levee crown where crossing should be.

<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**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

Waterway		Bank	Unit Miles	
Unit No. 02 Wadsworth Canal		Right	4.60	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	5/8/2019 - 5/8/2019		10/8/2019 - 10/8/2019	
DWR Inspector	Makar Sokol		Makar Sokol	
Accompanied By	David Julian DWR DFM			

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	0.02	Rating **	M	Issue No.	24
LM End	0.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.114372°	39.114372°
				-121.769263°	-121.769263°
DWR ID	17080				
Comment Code					
Inspector Comment					
DS_ID:17080 FS_ID:55507 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/07/2019 Record remains Non-Urgent, no maintenance records were made available by owner. No signs of line was present through this section of the levee. Need to contact owner to determine current status of line. If pipe is still in use, owner will need to provide maintenance records. If pipe is no longer in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements for proper removal or abandonment. (O. Magana - DWR UCIP)04/10/2017 Unable to locate. (DWR Sutter Yard - AFreitag)10/12/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/19/2016 Unable to locate.05/12/2015 Unable to locate.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Unable to locate any signage. Call owner to determine disposition of pipeline. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. (3-inch line authorized under Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 11:10:00 AM					

Photo 1 of 3 : UCIP_FA_2019_55507_78711.jpg



LS view: overview of LS; no markers present on LS.

LM Start	0.02	Rating **	M	Issue No.	24 (cont)
LM End	0.02	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55507_78712.jpg



Overview of levee crown where crossing should be.

* 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	0.02	Rating **	M	Issue No.	24 (cont)
LM End	0.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.114372°	39.114372°
				-121.769263°	-121.769263°
DWR ID	17080				
Comment Code					
Inspector Comment					
DS_ID:17080 FS_ID:55507 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/07/2019 Record remains Non-Urgent, no maintenance records were made available by owner. No signs of line was present through this section of the levee. Need to contact owner to determine current status of line. If pipe is still in use, owner will need to provide maintenance records. If pipe is no longer in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements for proper removal or abandonment. (O. Magana - DWR UCIP)04/10/2017 Unable to locate. (DWR Sutter Yard - AFreitag)10/12/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/19/2016 Unable to locate.05/12/2015 Unable to locate.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Unable to locate any signage. Call owner to determine disposition of pipeline. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. (3-inch line authorized under Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 11:10:00 AM					

Photo 3 of 3 : UCIP_FA_2019_55507_78710.jpg



WS view: overview of WS; no markers visible of gas line.

LM Start	0.24	Rating **	C	Issue No.	17
LM End	0.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.116913°	39.116913°
				-121.766768°	-121.766768°
DWR ID	DWR_ST0010_02_f_2018_17				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.16	Rating **	U	Issue No.	19
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.127527°	39.127527°
				-121.756493°	-121.756493°
DWR ID	DWR_ST0010_02_f_2016_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2019_ST0010_43_19_20190822_00008.jpg



View of the rodent holes along the waterside slope.

LM Start	1.16	Rating **	U	Issue No.	19 (cont)
LM End	1.16	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_ST0010_43_19_20191011_00053.jpg



View of a rodent hole on the waterside slope. Fall 2019.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.24	Rating **	M	Issue No.	27
LM End	1.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.128414 °	39.128414 °
				-121.755585 °	-121.755585 °
DWR ID	17071				
Comment Code					
Inspector Comment					
<p>DS_ID:17071 FS_ID:55510 EP_NO: 13362 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Need to Non-Urgent evaluation. Unable to find evidence of conduit through the levee. Need to contact owner to obtain permit authorizing the removal or abandonment of conduit through the levee. Unable to confirm if the buried conduit was replaced by new aerial line within this section of the levee. Need to contact owner to obtain permit authorizing the modifications of the permit associated with the communication line. (O. Magana - DWR UCIP)04/10/2017 Aerial lines. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing now appears to be the aerial line. No noticeable issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch steel communication conduit with multiple telephone cables inside through the levee, 2.6 feet below the crown. Telephone cables installed inside existing 4-inch conduit. The conduit is no longer attached to the downstream side of the bridge. It is likely that this communication line is now an aerial. (Original 4-inch conduit was installed under Permit No. 6906, 1970 - Pacific Telephone and Telegraph Company [PT&T]. Telephone cables through existing conduit were authorized under Permit No. 13362, 1982 - PT&T). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 11:13:00 AM</p>					

Photo 1 of 3 : UCIP_FA_2019_55510_64732.jpg



Aerial communication line over levee where underground communication line once was.

<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**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.71	Rating **	C	Issue No.	23
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.133912°	39.133912°
				-121.750258°	-121.750258°
DWR ID	DWR_ST0010_02_f_2018_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.74	Rating **	A/W	Issue No.	10
LM End	2.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.134064°	39.141814°
				-121.749781°	-121.743260°
DWR ID	DWR_ST0010_02_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.1 R Status: Eroding 2017 Field Notes: Minor new erosion observed. Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils.					

No Photos

LM Start	1.75	Rating **	M	Issue No.	20
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.134378°	39.134378°
				-121.749803°	-121.749803°
DWR ID	DWR_ST0010_02_f_2016_20				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing depression in the levee slope.					

Photo 1 of 1 : FA_2019_ST0010_43_20_20190822_00009.jpg



View of the ramp encroaching into the levee.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.76	Rating **	M	Issue No.	11
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.134490°	39.134490°
				-121.749716°	-121.749716°
DWR ID	DWR_ST0010_02_f_2012_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2019_ST0010_43_11_20190822_00005.jpg



View of the rodent holes above the irrigation pipe.

LM Start	1.76	Rating **	M	Issue No.	11 (cont)
LM End	1.76	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2019_ST0010_43_11_20190822_00006.jpg



View of the rodent hole above the irrigation pipe.

* 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	1.76	Rating **	M	Issue No.	29 (cont)
LM End	1.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.134499°	39.134499°
				-121.749712°	-121.749712°
DWR ID	17082				
Comment Code					
Inspector Comment					
<p>DS_ID:17082 FS_ID:55514 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Pipe section on LS measures 16-inch on both sides of the levee. Record has been updated from No Action Needed to Non-Urgent issue. Minor modification were noted at this location without authorization. Concrete standpipe previously located on the LS is no longer present. The pump and motor have been removed from the WS. Need to contact owner to determine current status of crossing. If pipe is no longer used, the owner will need to coordinate with the CVFPB to remove or abandon pipe according to Title 23 requirements. (O. Magana - DWR UCIP)04/10/2017 Abandoned crossing. Pipe measures to be 16" on both sides of levee. (DWR Sutter Yard- AFreitag)10/12/2016 Abandoned crossing. Minor rodent activity near by.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears abandoned. Minor rodent activity under pipe on LS slope.05/12/2015 Abandoned crossing that needs to be properly abandoned. Rodent activity near LS pipe.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Heavy rodent activity along LS alignment of pipe. No pump on structure and it appears to be abandoned. Should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe through the levee, 4.4 feet below the crown. Pump mounted on a timber structure located on the waterside (WS). Siphon breaker located on the landside (LS) slope. 48-inch concrete standpipe located on the LS berm (not found in 2012). (16-inch pipe authorized under Permit No. 1104, 1946 - A. H. Muns). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 93+50), listed as a 12-inch pipe, Dwg. No. 50-04-1949, page 1 of 3]. FS Date: 2/7/2019 11:16:00 AM</p>					

Photo 3 of 3 : UCIP_FA_2019_55514_64734.jpg



Pipe on left without pump.

<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**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal		Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	2.41	Rating **	A/W	Issue No.	8
LM End	3.28	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		39.142254 °	39.153150 °	
			-121.742847 °	-121.734611 °	
DWR ID	DWR_ST0010_02_f_2018_8				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 R Status: Eroding 2017 Field Notes: Significant new erosion along lower bank. Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 1 of 2 : FA_2019_ST0010_43_8_20190822_00001.jpg



View of erosion along the waterside toe.

LM Start	2.41	Rating **	A/W	Issue No.	8 (cont)
LM End	3.28	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_ST0010_43_8_20190822_00002.jpg



View of the erosion along the landside toe.

LM Start	2.95	Rating **	M	Issue No.	21
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.148938 °	39.148938 °	
			-121.737620 °	-121.737620 °	
DWR ID	DWR_ST0010_02_f_2016_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing depression in the levee slope.					

Photo 1 of 1 : FA_2019_ST0010_43_21_20190822_00010.jpg



View of the ramp encroaching into the levee.

* Location LS : Land Side 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	2.95	Rating **	A/W	Issue No.	22
LM End	2.95	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_22				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Longitudinal cracks caused by fat clay.					

Photo 1 of 1 : FA_2019_ST0010_43_22_20190822_00012.jpg



View of the longitudinal cracks along the landside slope.

LM Start	2.99	Rating **	M	Issue No.	31
LM End	2.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.149350 °	39.149350 °
				-121.737239 °	-121.737239 °
DWR ID	17076				
Comment Code					
Inspector Comment					
<p>DS_ID:17076 FS_ID:55516 EP_NO: 9191 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Need to Non-Urgent issue due to missing maintenance records. Need to contact owner to obtain maintenance records and confirm line integrity through the levee. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing appears in good condition. No noticeable issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 6-inch (not 7-inch as mentioned in the levee log) asphalt coated steel gas line through the levee, 1.1 feet below the crown. Gas line crosses Wadsworth Canal and its levees. Gas line markers located on the landside (LS) toe and across channel. (6-inch gas line authorized under Permit No. 764, 1939 - Pacific Gas and Electric Company [PG&E]. 6-inch Pipe reconstructed under Permit No. 9191, 1974 - PG&E). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 157+35), Dwg. No. 50-04-1949, page 2 of 3]. FS Date: 2/7/2019 11:17:00 AM</p>					

Photo 1 of 3 : UCIP_FA_2019_55516_78767.jpg



LS view: overview of LS.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	2.99	Rating **	M	Issue No.	31 (cont)
LM End	2.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.149350 °	39.149350 °
				-121.737239 °	-121.737239 °
DWR ID	17076				
Comment Code					
Inspector Comment					
<p>DS_ID:17076 FS_ID:55516 EP_NO: 9191 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Need to Non-Urgent issue due to missing maintenance records. Need to contact owner to obtain maintenance records and confirm line integrity through the levee. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing appears in good condition. No noticeable issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 6-inch (not 7-inch as mentioned in the levee log) asphalt coated steel gas line through the levee, 1.1 feet below the crown. Gas line crosses Wadsworth Canal and its levees. Gas line markers located on the landside (LS) toe and across channel. (6-inch gas line authorized under Permit No. 764, 1939 - Pacific Gas and Electric Company [PG&E]. 6-inch Pipe reconstructed under Permit No. 9191, 1974 - PG&E). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 157+35), Dwg. No. 50-04-1949, page 2 of 3]. FS Date: 2/7/2019 11:17:00 AM</p>					

Photo 2 of 3 : UCIP_FA_2019_55516_78765.jpg



Overview of levee crown looking upstream towards crossing.

LM Start	2.99	Rating **	M	Issue No.	31 (cont)
LM End	2.99	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_55516_78766.jpg



WS view: overview of WS.

<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**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.28	Rating **	M	Issue No.	33 (cont)
LM End	3.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.153172°	39.153172°
				-121.734741°	-121.734741°
DWR ID	23098				
Comment Code					
Inspector Comment					
<p>DS_ID:23098 FS_ID:55518 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/07/2019 Record remains Non-Urgent due to no permit found authorizing conduit through the levee. Carsonite marker lists CVIN as owner. Contact phone number listed on marker to be used before digging is 855-442-6010. Need to contact owner to obtain permit authorizing conduit through levee. (O. Magana - DWR UCIP)04/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - aFreitag)05/27/2016 Need photos of markers and levee overview. (O. Magana)04/19/2016 Crossing appears to be in good condition. No permit on file.05/12/2015 No issues recorded during inspection but does not have a permit on file for it.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication conduit through the levee, 2 feet below the crown. Fiber optics line attached to bottom of downstream side of South Butte Road bridge. Position marked with orange markers on both the waterside (WS) and landside (LS). No permit has been identified since crossing was field discovered in 2012. FS Date: 2/7/2019 11:19:00 AM</p>					

Photo 3 of 3 : UCIP_FA_2019_55518_78780.jpg



WS view: conduit attached to bridge.

LM Start	3.30	Rating **	A/W	Issue No.	9
LM End	4.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.153320°	39.171031°
				-121.734573°	-121.727040°
DWR ID	DWR_ST0010_02_f_2018_9				
Comment Code					
Inspector Comment					
<p>2017 Site ID: WAC 4.3 R Status: Eroding 2017 Field Notes: Site extended downstream. Significant lower bank erosion. Site History: 2011 - Small erosion pocket.</p>					

Photo 1 of 2 : FA_2019_ST0010_43_9_20190822_00003.jpg



View of the erosion along the waterside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.30	Rating **	A/W	Issue No.	9 (cont)
LM End	4.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.153320°	39.171031°
				-121.734573°	-121.727040°
DWR ID	DWR_ST0010_02_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 4.3 R Status: Eroding 2017 Field Notes: Site extended downstream. Significant lower bank erosion. Site History: 2011 - Small erosion pocket.					

Photo 2 of 2 : FA_2019_ST0010_43_9_20190822_00004.jpg



View of the erosion along the waterside 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.31	Rating **	U	Issue No.	34
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.153491 °	39.153491 °
				-121.734636 °	-121.734636 °
DWR ID	17078				

Comment Code

Inspector Comment

DS_ID:17078
 FS_ID:55519
 EP_NO: 10473
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 02/07/2019 Record remains Urgent due to two sink holes present on the LS slope. The CVFPB - Enforcement Section is pursuing corrective actions for this pipe under CVFPB Enforcement Id (Enf ID) 14602. (O. Magana - DWR UCIP)10/04/2018 Two sink holes visible on the LS slope. Crossing has been upgraded from Non-Urgent to Urgent because there are signs that the pipe has failed through the LS slope. Recommend video inspection to confirm pipe failure through the levee. Need to coordinate with CVFPB to have them contact the owner of the crossing. Unable to determine the extent of damage (size of sink holes) due to dense vegetation. Notified J. Peterson with CVFPB - Enforcement Section about the updated inspection for this pipe (sink holes now present). The CVFPB - Enforcement Section is pursuing corrective actions for this pipe under CVFPB Enforcement Id (Enf ID) 14602. (O. Magana - DWR UCIP)04/10/2017 WS appears to be in good condition. No repairs appear to have been made to the LS yet. Pipe measures to be 16". (DWR Sutter Yard-AFreitag)10/12/2016 WS appears to be in good condition. LS is still very rusted where it extends over the LS ditch.(DWR Sutter Yard - aFreitag)04/19/2016 No changes have been made to this crossing. LS pipe outlet is still very rusted. 05/12/2015 Pipe is very rusty at Outlet in LS channel. No noticeable issues with WS.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Pipe shows signs of heavy rust at outlet in channel. Good candidate for video inspection. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2.7 feet below the crown. 16-inch pipe was measured during the UCIP field inspection. Record sources at this location reference the following pipe diameter size: USACE O&M manual references a 24-inch pipe, levee log references a 22-inch pipe, and permit records reference a 22-inch pipe. Unable to determine if original 22-inch pipe is still present through the levee. Vertical pump in the channel with a service pole on the waterside (WS) berm. Pipe discharges into a 36-inch concrete standpipe located on the landside (LS) toe of the levee. (Retain existing 22-inch pipe through levee and remove existing 12-inch pipe and replaced with 12-inch pipe under Permit No. 5622, 1967 - Webb. Remove 12-inch pipe and replace with 12-inch pipe under Permit No. 10473, 1976 - Brown. Install 16-inch pipe from canal to levee slope and modify existing 22-inch pipe under Permit No. 10473-A, 1976 - Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station

Photo 1 of 3 : UCIP_FA_2019_55519_64761.jpg



Pump on steel pier at WS 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**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

174+63), Dwg. No. 50-04-1949, page 2 of 3, 24-inch pipe listed].
FS Date: 2/7/2019 12:10:00 PM

LM Start	3.31	Rating **	U	Issue No.	34 (cont)
LM End	3.31	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55519_64760.jpg



Rusted outlet at LS channel. Unclear if this is same pipe as one under investigation.

LM Start	3.31	Rating **	U	Issue No.	34 (cont)
LM End	3.31	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_55519_78288.jpg



Overview photo of crossings from opposite bank. Pipe to left is associated with dsid 17078 and pipe to right is dsid 17081.

* 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	3.31	Rating **	M	Issue No.	36
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.153522°	39.153522°
				-121.734588°	-121.734588°
DWR ID	17085				
Comment Code					
Inspector Comment					
<p>DS_ID:17085 FS_ID:55521 EP_NO: 10473 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/07/2019 Record has been changed from No Action Needed to Non-Urgent due to the unknown status of the 12-inch pipe. Record needs further review. There appears to be some confusion between which 12-inch pipe was removed from the levee. The 12-inch pipe installed under Permit No. 10473 was installed in 1975 and there appears to be no record confirming the status of this pipe. (O. Magana - DWR UCIP)04/10/2017 Removed.10/12/2016 Removed.04/19/2016 Unable to locate.05/12/2105 Unable to locate.11/18/2014 Unable to locate.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.10/09/2012 Not found. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 12-inch steel irrigation pipe through the levee, 0.5 foot below the crown. Two vertical pumps in the channel. Two service poles located on the berm. Pipe discharges into channel at the landside (LS) toe of the levee. (12-inch pipe authorized under Permit No. 697, 1938 - Becker; 22-inch pipe removed and replaced with 12-inch pipe under Permit No. 5622, 1967 - Webb; 12-inch pipe authorized under Permit No. 10473 and 10473A, 1975 - Harold D. and Anna Belle S. Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+60), listed as a 15-inch pipe]. FS Date: 2/7/2019 12:11:00 PM</p>					

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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	4.28	Rating **	M	Issue No.	38 (cont)
LM End	4.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.166983 °	39.166983 °
				-121.728919 °	-121.728919 °
DWR ID	17070				
Comment Code					
Inspector Comment					
DS_ID:17070 FS_ID:55523 EP_NO: 4680 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent due to modifications made to authorized encroachment. Unable to determine the status of the buried conduit and the permit authorizing the aerial lines at this location. (O. Magana - DWR UCIP)04/10/2017 Aerial lines. (DWR Sutter Yard - AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing now appears to be an aerial line. No issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Appears lines no longer cross levee at downstream side of bridge as there is no conduit. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 4-inch steel communication conduit (telephone cable inside) through the levee, 2.3 feet below the crown. Conduit line goes through Wadsworth Canal and its levees. Annular space between pipe and conduit grouted. Line is attached to the south side of the Butte House Road bridge (no longer attached in 2012). (4-inch conduit authorized under Permit No. 4680, 1964-Pacific Telephone and Telegraph Company [PT&T]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 12:12:00 PM					

Photo 2 of 3 : UCIP_FA_2019_55523_78805.jpg



WS view: aerial power lines present but no markers of communication line, photo 1 of 2.

* 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 2019

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	10/08/2019 10/08/2019	Makar Sokol

LM Start	4.28	Rating **	M	Issue No.	38 (cont)
LM End	4.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.166983 °	39.166983 °
				-121.728919 °	-121.728919 °
DWR ID	17070				
Comment Code					
Inspector Comment					
DS_ID:17070 FS_ID:55523 EP_NO: 4680 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent due to modifications made to authorized encroachment. Unable to determine the status of the buried conduit and the permit authorizing the aerial lines at this location. (O. Magana - DWR UCIP)04/10/2017 Aerial lines. (DWR Sutter Yard - AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/19/2016 Crossing appears to be in good condition.05/12/2015 Crossing now appears to be an aerial line. No issues to report.11/18/2014 Same as last inspection.05/13/2014 Same as last inspection.10/29/2013 Same as last inspection.05/16/2013 Same as last inspection.10/09/2012 Appears lines no longer cross levee at downstream side of bridge as there is no conduit. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 4-inch steel communication conduit (telephone cable inside) through the levee, 2.3 feet below the crown. Conduit line goes through Wadsworth Canal and its levees. Annular space between pipe and conduit grouted. Line is attached to the south side of the Butte House Road bridge (no longer attached in 2012). (4-inch conduit authorized under Permit No. 4680, 1964-Pacific Telephone and Telegraph Company [PT&T]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/7/2019 12:12:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55523_78806.jpg



WS view: aerial power lines present but no markers of communication line, photo 2 of 2.

* 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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