

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0002	Overall LMA Rating	Total LMA Miles	* 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.						
Sutter Maintenance Yard East Levee Sutter Bypass	M *	21.68							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.01	0.47	1.89	8.72%					
Encroachments	0.01		0.01	0.05%	0.25	0.01			
Animal Control	0.01		0.01	0.05%					
Slope Stability	0.03		0.03	0.14%					
Erosion / Bank Caving	0.02	0.03	0.14	0.65%					
<i>Supplemental</i>									
DRAFT DWR UCIP Field Study					0.30				
DRAFT DWR UCIP LMA Responsibility									
<i>LMA Totals:</i>	0.08	0.50	2.08	9.60% *	0.55	0.01	0.00	0.00	

Unit No. 01 Sutter Bypass Levee LB	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.						
ST0002	M *	21.68							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.01	0.47	1.89	8.72%					
Encroachments	0.01		0.01	0.05%	0.25	0.01			
Animal Control	0.01		0.01	0.05%					
Slope Stability	0.03		0.03	0.14%					
Erosion / Bank Caving	0.02	0.03	0.14	0.65%					
<i>Supplemental</i>									
DRAFT DWR UCIP Field Study					0.30				
DRAFT DWR UCIP LMA Responsibility									
<i>Unit Totals:</i>	0.08	0.50	2.08	9.60% *	0.55	0.01	0.00	0.00	

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

Sutter Maintenance Yard East Levee Sutter Bypass

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

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* 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.

† 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 East Levee Sutter Bypass

Waterway		Bank	Unit Miles	
Unit No. 01 Sutter Bypass Levee		Left	21.68	
	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		9/25/2019 - 9/25/2019	
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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			o	o
				o	o
DWR ID	DWR_ST0002_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
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_ST0002_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			o	o
				o	o
DWR ID	DWR_ST0002_01_s_2013_6				
Comment Code					
Inspector Comment					
The LMA has completed flood flight training.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	0.00	Rating **	U	Issue No.	48
LM End	0.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.151291°	39.148600°	
			-121.832110°	-121.830018°	
DWR ID	DWR_ST0002_01_f_2019_48				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0002_450_48_20190926_00084.jpg



View of the vegetation along the landside slope. Fall 2019.

LM Start	0.00	Rating **	U	Issue No.	47
LM End	0.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.151291°	39.148212°	
			-121.832110°	-121.829759°	
DWR ID	DWR_ST0002_01_f_2019_47				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0002_450_47_20190926_00085.jpg



View of the vegetation along the waterside slope. Fall 2019.

LM Start	0.00	Rating **	M	Issue No.	54
LM End	0.25	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.151291°	39.148212°	
			-121.832110°	-121.829759°	
DWR ID	DWR_ST0002_01_f_2019_54				
Comment Code					
FE : Fence					
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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	0.27	Rating **	M	Issue No.	62
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.147956°	39.147956°
				-121.829526°	-121.829526°
DWR ID	16867				
Comment Code					
Inspector Comment					
DS_ID:16867 FS_ID:55013 EP_NO: 14802 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, need to request maintenance and inspection records to confirm condition of line through levee. Gas line marker previously located on the WS slope has been damaged, recommend replacing. Structure description has been updated based on the permit review of 14802 (dsid 16867) and 768 (dsid 25575). USACE PI issue references Permit No. 768 for this crossing correct Permit No. should be 14802. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch steel gas line through the levee, 30-inches below the crown. Carsonite marker located on the waterside (WS) shoulder and on road, 200 feet east of levee crossing (4-inch line authorized under Permit No. 14802, 1987 - Pacific Gas and Electric Company [PG&E]; 4-inch line replaces previous 3.5-inch line authorized under Permit No. 768, 1939 - PG&E). FS Date: 2/12/2019 3:01:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55013_78814.jpg



Overview of levee section looking towards HWY 20.

LM Start	0.27	Rating **	M	Issue No.	62 (cont)
LM End	0.27	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55013_78812.jpg



WS view: overview of crown.

* 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	0.32	Rating **	M	Issue No.	63
LM End	0.32	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.147478°	39.147478°	
			-121.828747°	-121.828747°	
DWR ID	16890				
Comment Code					
Inspector Comment					
<p>DS_ID:16890 FS_ID:55983 EP_NO: 16850 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, modifications to the encroachment have been made since 2012. Unable to confirm if the line previously recorded in 2012 was removed or if a completely new line was added about 10-feet south of current location. Underground service alert (USA) flag recorded in 2012 shows AT&T line, permit indicates PT&T, and 2019 control box shows CVIC. Need to update permit with current owner. Need contact owner to clarify conduit alignment and modifications completed after 2012. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch steel communications conduit through the levee, 4 feet below the crown. Design drawings available in permit. (4-inch line authorized under Permit No. 16850, 1998 - Pacific Bell; previous 4-inch line removed under Permit No. 13363 and 16647 in 1998). FS Date: 2/12/2019 3:01:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55983_78815.jpg



Overview of levee crown at line crossing, photo 1 of 2.

LM Start	0.32	Rating **	M	Issue No.	63 (cont)
LM End	0.32	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55983_78822.jpg



Overview of levee crown at line crossing, photo 2 of 2

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	0.32	Rating **	M	Issue No.	64
LM End	0.32	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.147463°	39.147463°
				-121.828716°	-121.828716°
DWR ID	16859				
Comment Code					
Inspector Comment					
DS_ID:16859 FS_ID:55984 EP_NO: 8590 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 Record remains Non-Urgent, no pipe or appurtenances were found. Need to contact owner to determine status of crossing. No maintenance records are available to determine status of crossing. (O. Magana - DWR UCIP)01/10/2019 Unable to determine line alignment through permit records. Need to confirm with owner. (O. Magana - DWR UCIP) 04/11/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/10/2016 Unable to locate.04/18/2016 Unable to locate.05/07/2015 Could not locate a marker for this crossing.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection. Unable to locate.10/08/2012 Unable to locate any indicator of crossing. More research may be necessary. FIELD_STRUCT_DESC: 3-inch gas line of an unknown material along the landside (LS) toe, at an unknown depth. (3-inch line authorized under Permit No. 8590, 1973 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:02:00 PM					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	0.34	Rating **	M	Issue No.	65
LM End	0.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.147328°	39.147328°
				-121.828452°	-121.828452°
DWR ID	16860				
Comment Code					
Inspector Comment					
<p>DS_ID:16860 FS_ID:55017 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, need to contact owner to obtain maintenance records for crossing. Markers are present near levee to designate line alignment. (O. Magana - DWR UCIP)01/10/2019 Permit records indicate marker signs were to be placed over the gasoline in the bypass channel and in the levee section - confirm in the field. (O. Magana - DWR UCIP) 04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - aFreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.05/22/2013 Same as last inspection.10/30/2103 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel gas line through the levee, 4 feet below the crown. Pipe is 0.375 inches thick and soil proofed. Pressure gas line goes through the left bank, under the channel of Sutter Bypass, and right bank. (10-inch line authorized under Permit No. 4795, 1965 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:02:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55017_78827.jpg



LV crown: assumed gasoline alignment through levee (line goes through levee at an angle)

LM Start	0.34	Rating **	M	Issue No.	65 (cont)
LM End	0.34	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55017_78826.jpg



WS view: overview of WS. No visible marker found on 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	0.34	Rating **	M	Issue No.	65 (cont)
LM End	0.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.147328°	39.147328°
				-121.828452°	-121.828452°
DWR ID	16860				
Comment Code					
Inspector Comment					
<p>DS_ID:16860 FS_ID:55017 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, need to contact owner to obtain maintenance records for crossing. Markers are present near levee to designate line alignment. (O. Magana - DWR UCIP)01/10/2019 Permit records indicate marker signs were to be placed over the gasoline in the bypass channel and in the levee section - confirm in the field. (O. Magana - DWR UCIP) 04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.05/22/2013 Same as last inspection.10/30/2103 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel gas line through the levee, 4 feet below the crown. Pipe is 0.375 inches thick and soil proofed. Pressure gas line goes through the left bank, under the channel of Sutter Bypass, and right bank. (10-inch line authorized under Permit No. 4795, 1965 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:02:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55017_65220.jpg



Possible vent on WS across channel.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	0.36	Rating **	M	Issue No.	42
LM End	0.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.147183 °	39.147183 °
				-121.828142 °	-121.828142 °
DWR ID	DWR_ST0002_01_s_2017_42				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the waterside toe.					

Photo 1 of 1 : FA_2019_ST0002_450_42_20190822_00009.jpg



View of the erosion along the waterside toe.

LM Start	0.40	Rating **	M	Issue No.	66
LM End	0.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.146811 °	39.146811 °
				-121.827497 °	-121.827497 °
DWR ID	16861				
Comment Code					
Inspector Comment					
<p>DS_ID:16861 FS_ID:55986 EP_NO: 1890 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, need to obtain records for the May 2005 emergency repair and current owner. No issues were observed on levee or slopes. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition.10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection.10/08/2012 Old pipe appears to have been removed FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 3.8 feet below the crown. Vertical pump and gate valve mounted on a steel structure located on the waterside (WS). Siphon breaker on the landside (LS) shoulder. 36-inch concrete riser unit in field on the LS. (18-inch pipe authorized under Permit No. 1890, 1959 - T. S. Madden). Emergency repair requested May 8, 2005, for replacement of existing pipe with 18-inch steel tar coated pipe. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:03:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55986_78829.jpg



Overview of levee crown looking at crossing, photo taken u/s.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	1.12	Rating **	M	Issue No.	67 (cont)	
LM End	1.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.140868°	39.140868°	
				-121.816644°	-121.816644°	
DWR ID	16862					
Comment Code						
Inspector Comment						
<p>DS_ID:16862 FS_ID:55020 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 Record remains Non-Urgent due to maintenance issue. Need to contact owner to notify of the maintenance issue with the CMP riser. If crossing is no longer in use owner will need to coordinate with the CVFPB for proper removal or abandonment. (O. Magana - DWR UCIP)04/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- AFreitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - aFreitag)04/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.05/07/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.05/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/08/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original 16-inch O&M pipe removed in 1975 and replaced with a 16-inch pipe under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 2/12/2019 3:03:00 PM</p>						

Photo 2 of 3 : UCIP_FA_2019_55020_78842.jpg



WS view: overview of WS, photo taken d/s looking u/s towards 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	1.53	Rating **	U	Issue No.	57
LM End	1.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.137373°	39.137373°
				-121.810382°	-121.810382°
DWR ID	DWR_ST0002_01_f_2017_57				
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_ST0002_450_57_20190822_00014.jpg



View of the beaver hole along the waterside berm.

LM Start	1.57	Rating **	U	Issue No.	58
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.137010°	39.137010°
				-121.809673°	-121.809673°
DWR ID	DWR_ST0002_01_f_2017_58				
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_ST0002_450_58_20190822_00015.jpg



View of the beaver hole along the waterside berm.

* 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	1.60	Rating **	M	Issue No.	68
LM End	1.60	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.136765°	39.136765°	
			-121.809285°	-121.809285°	
DWR ID	16863				
Comment Code					
Inspector Comment					
<p>DS_ID:16863 FS_ID:55987 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, geophysical study has found some evidence pipe is still through the levee. No signs are visible of pipe from the surface however, DMP's geophysical study indicates pipe is still present through levee. Recommend monitoring this site until pipe is removed from levee or abandoned properly. No permit has been identified authorizing 18-inch pipe. Permit records from 1959 indicate pipe through the levee was plugged. (O. Magana - DWR UCIP)01/11/2019 Measure pipe and standpipe to confirm size. (O. Magana - DWR UCIP) 04/11/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/18/2016 Unable to locate.05/07/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 6.3 feet below the crown. Gate valve on the waterside (WS) slope. 24-inch concrete standpipe at toe of landside (LS) slope. Buried centrifugal pump on the bank. Unable to determine if applicant removed or abandoned crossing. Permit recordation indicates work abandoned, however, permit indicates pipe was to be removed completely from levee section. (no permit found authorizing 18-inch pipe; removal of 16-inch gate valve from existing pipe and plugging the pipe through the levee, leading to the abandoned Morehead Pumping Plant, was authorized under Permit No. 3051, 1959 - Edward E. Nall, page 12 of 13 shows 16-inch through levee and 30-inch standpipe on LS) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1069+60)]. FS Date: 2/12/2019 3:04:00 PM</p>					

No Photos

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	1.61	Rating **	U	Issue No.	61
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.136713°	39.136713°
				-121.809202°	-121.809202°
DWR ID	DWR_ST0002_01_f_2017_61				
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_ST0002_450_61_20190822_00016.jpg



View of the beaver hole along the waterside berm.

LM Start	2.32	Rating **	A/W	Issue No.	51
LM End	2.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.130704°	39.130704°
				-121.798381°	-121.798381°
DWR ID	DWR_ST0002_01_f_2019_51				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0002_450_51_20190926_00086.jpg



View of the depression 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	70
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.129247°	39.129247°
				-121.795727°	-121.795727°
DWR ID	16864				
Comment Code					
Inspector Comment					
DS_ID:16864 FS_ID:55023 EP_NO: 3890 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, no records were made available to determine integrity of line through the levee. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 10.75-inch steel gas pipeline through the levee, 2.6 feet below the crown. Gas line markers located on the landside (LS) and the waterside (WS) toes. Gas valve in steel riser unit on the LS toe at edge of canal. Line crosses the channel and goes through both Sutter Bypass levees. Design drawings available. (10.75-inch line authorized under Permit No. 3890, 1962 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:04:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55023_78848.jpg



Overview of levee crown, photo taken d/s looking u/s towards crossing.

LM Start	2.50	Rating **	M	Issue No.	70 (cont)
LM End	2.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55023_78851.jpg



WS view: marker located on WS shoulder. Markers photographed in 2012 are no longer present.

* 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	71
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.129229°	39.129229°	
			-121.795692°	-121.795692°	
DWR ID	16865				
Comment Code					
Inspector Comment					
DS_ID:16865 FS_ID:55024 EP_NO: 6905 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, no signs of pipe are present during inspection. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)04/11/2017 Unable to locate.(DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - aFreitag)04/18/2016 Unable to locate.05/07/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection. Unable to locate FIELD_STRUCT_DESC: 1 of 2: 2.5-inch steel telephone conduit through the levee, 2.5 feet below the crown. Design drawings available in permit. (two 2.5-inch conduits installed under Permit No. 6905, 1970 - Pacific Telephone & Telegraph Company [PT&T]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:05:00 PM					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	72
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.129229°	39.129229°
				-121.795692°	-121.795692°
DWR ID	16894				
Comment Code					
Inspector Comment					
DS_ID:16894 FS_ID:55025 EP_NO: 6905 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, no signs of crossing were present during inspection. Need to coordinate with owner to determine the status of crossing. (O. Magana - DWR UCIP)04/11/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate.04/18/2016 Unable to locate.05/07/2015 Unable to locate.05/13/2014 Same as last inspection.11/12/2014 Same as last inspection. Unable to locate.10/30/2103 Same as last inspection.05/22/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2 of 2: 2.5-inch steel telephone conduit through the levee, 2.5 feet below the crown. (two 2.5-inch conduits installed under Permit No. 6905, 1970 - Pacific Telephone and Telegraph Company [PT&T]). Design drawings available in permit. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 2/12/2019 3:05:00 PM					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	73
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.120372°	39.120372°	
			-121.779800°	-121.779800°	
DWR ID	16880				
Comment Code					
Inspector Comment					
<p>DS_ID:16880 FS_ID:55218 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authoring this pump station. Pumping Plant No. 3 is an active plant that has been converted to a gravity drainage system. This structure is operated and maintained by DWR Sutter Yard. No permit is available for this structure. (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 04/11/2017 Not abandoned. good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - aFreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:05:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55218_78856.jpg



Overview of levee crown looking towards pumping station.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	73 (cont)
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.120372°	39.120372°
				-121.779800°	-121.779800°
DWR ID	16880				
Comment Code					
Inspector Comment					
<p>DS_ID:16880 FS_ID:55218 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authoring this pump station. Pumping Plant No. 3 is an active plant that has been converted to a gravity drainage system. This structure is operated and maintained by DWR Sutter Yard. No permit is available for this structure. (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 04/11/2017 Not abandoned. good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - aFreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:05:00 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_55218_78857.jpg



LS view: slide gate valves located on LS shoulder.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	73 (cont)
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.120372°	39.120372°
				-121.779800°	-121.779800°
DWR ID	16880				
Comment Code					
Inspector Comment					
<p>DS_ID:16880 FS_ID:55218 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authoring this pump station. Pumping Plant No. 3 is an active plant that has been converted to a gravity drainage system. This structure is operated and maintained by DWR Sutter Yard. No permit is available for this structure. (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 04/11/2017 Not abandoned. good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - aFreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:05:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55218_64815.jpg



Slide gates on LS shoulder.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	74 (cont)
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.120358°	39.120358°
				-121.779775°	-121.779775°
DWR ID	16895				
Comment Code					
Inspector Comment					
<p>DS_ID:16895 FS_ID:55219 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 02/12/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authoring this pump station. Pumping Plant No. 3 is an active plant that has been converted to a gravity drainage structure. Structure is operated and maintained by DWR Sutter Yard. No permit has been identified for this structure. (O. Magana - DWR UCIP)01/11/2019 Record has been updated to show pumping plant is still in use and not abandoned. (O. Magana - DWR UCIP) 04/11/2017 Not abandoned. Good condition. (DWR Sutter Yard-AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch. (DWR Sutter Yard - aFreitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culverts still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2103 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 2/12/2019 3:06:00 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_55219_78866.jpg



Overview of levee crown, photo taken at crossings looking u/s.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	75
LM End	3.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.120349°	39.120349°
				-121.779757°	-121.779757°
DWR ID	25577				
Comment Code					
Inspector Comment					
DS_ID:25577 FS_ID:55989 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 02/12/2019 Record has been added to document Permit No. 5296. No pipe was found in the field. Need to contact owner to determine the status of the line through the levee. Request re-inspection in 2020 of this crossing to photograph surrounding area and to locate any signs of line or appurtenances. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 3.5-inch gas line through the levee, 3 feet below the crown. Line crossing the Sutter Bypass and Wadsworth Canal in Sutter County landward side of the left bank levee Sutter Bypass and through both levees and under the channel of Wadsworth Canal. HLM 3.61 to 5.37. across wadsworth canal at LM 0.04, Units 1 and 2. (3-inch line authorized under Permit No. 5296, 1966 - Atlantic Oil Company) FS Date: 8/21/2019					

No Photos

LM Start	4.81	Rating **	C	Issue No.	26
LM End	4.81	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.108110°	39.108110°
				-121.762623°	-121.762623°
DWR ID	DWR_ST0002_01_f_2016_26				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Longitudinal cracks caused by fat clay.					

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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	7.42	Rating **	M	Issue No.	78
LM End	7.42	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.072928°	39.072928°
				-121.745149°	-121.745149°
DWR ID	16891				
Comment Code					
Inspector Comment					
<p>DS_ID:16891 FS_ID:55998 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, limited inspection prevented evaluation of levee WS berm slope. In 2012, inspector observed pipe debris on the WS unable to determine if debris was part of appurtenances associated with pipe or just debris. If appurtenances still remain recommend removing those. Pipe has been plugged and noted as no longer in use, refer to USACE O&M Manual Unit 135, drawing no. 50-4-1946-2 for reference. Recommend geophysical study to determine extent of pipe remaining through the levee. Currently not part of DMP but considered LMA responsibility. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP)04/11/2017 Abandoned. 10/10/2016 Abandoned crossing. Unable to locate. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing.05/07/2015 Abandoned crossing. No issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED w/o PERMIT* 36-inch drainage pipe of an unknown material through the levee, at an unknown depth. Pipe has been abandoned and filled with concrete. Date of abandonment unknown. Pipe debris from large corrugated metal pipe (CMP) along waterside (WS) toe at stream bank. [Additional Reference(s): USACE Sacramento O&M Manual Unit No. 135, May 1953 revised 29 Dec 2016, (Station 762+00), section 2 page 13 notes "Pipe abandoned - Plugged with concrete", see Drawing No. 50-4-1946-2] FS Date: 5/1/2019 2:22:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55998_65211.jpg



Pipe debris near WS creek bank.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	7.42	Rating **	M	Issue No.	78 (cont)
LM End	7.42	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.072928°	39.072928°
				-121.745149°	-121.745149°
DWR ID	16891				
Comment Code					
Inspector Comment					
<p>DS_ID:16891 FS_ID:55998 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, limited inspection prevented evaluation of levee WS berm slope. In 2012, inspector observed pipe debris on the WS unable to determine if debris was part of appurtenances associated with pipe or just debris. If appurtenances still remain recommend removing those. Pipe has been plugged and noted as no longer in use, refer to USACE O&M Manual Unit 135, drawing no. 50-4-1946-2 for reference. Recommend geophysical study to determine extent of pipe remaining through the levee. Currently not part of DMP but considered LMA responsibility. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP)04/11/2017 Abandoned. 10/10/2016 Abandoned crossing. Unable to locate. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing.05/07/2015 Abandoned crossing. No issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED w/o PERMIT* 36-inch drainage pipe of an unknown material through the levee, at an unknown depth. Pipe has been abandoned and filled with concrete. Date of abandonment unknown. Pipe debris from large corrugated metal pipe (CMP) along waterside (WS) toe at stream bank. [Additional Reference(s): USACE Sacramento O&M Manual Unit No. 135, May 1953 revised 29 Dec 2016, (Station 762+00), section 2 page 13 notes "Pipe abandoned - Plugged with concrete", see Drawing No. 50-4-1946-2] FS Date: 5/1/2019 2:22:00 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_55998_65210.jpg



Pipe debris near WS creek bank.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	7.42	Rating **	M	Issue No.	78 (cont)
LM End	7.42	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.072928°	39.072928°
				-121.745149°	-121.745149°
DWR ID	16891				
Comment Code					
Inspector Comment					
<p>DS_ID:16891 FS_ID:55998 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, limited inspection prevented evaluation of levee WS berm slope. In 2012, inspector observed pipe debris on the WS unable to determine if debris was part of appurtenances associated with pipe or just debris. If appurtenances still remain recommend removing those. Pipe has been plugged and noted as no longer in use, refer to USACE O&M Manual Unit 135, drawing no. 50-4-1946-2 for reference. Recommend geophysical study to determine extent of pipe remaining through the levee. Currently not part of DMP but considered LMA responsibility. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP)04/11/2017 Abandoned. 10/10/2016 Abandoned crossing. Unable to locate. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing.05/07/2015 Abandoned crossing. No issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED w/o PERMIT* 36-inch drainage pipe of an unknown material through the levee, at an unknown depth. Pipe has been abandoned and filled with concrete. Date of abandonment unknown. Pipe debris from large corrugated metal pipe (CMP) along waterside (WS) toe at stream bank. [Additional Reference(s): USACE Sacramento O&M Manual Unit No. 135, May 1953 revised 29 Dec 2016, (Station 762+00), section 2 page 13 notes "Pipe abandoned - Plugged with concrete", see Drawing No. 50-4-1946-2] FS Date: 5/1/2019 2:22:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55998_65209.jpg



Location of pipe debris near base of cottonwood at center of picture.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	7.47	Rating **	M	Issue No.	79
LM End	7.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.072292°	39.072292°
				-121.744907°	-121.744907°
DWR ID	19985				
Comment Code					
Inspector Comment					
DS_ID:19985 FS_ID:55238 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no permit has been identified authorizing line. Will need to coordinate with Calpine Pipeline Company to determine if a permit has been issued for the line. Also need to request installation records and maintenance records for this crossing. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/08/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 2:22:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55238_65213.jpg



Gasline marker on WS shoulder.

LM Start	7.47	Rating **	M	Issue No.	79 (cont)
LM End	7.47	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55238_65212.jpg



Gasline marker on LS toe east of ditch.

* 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	7.47	Rating **	M	Issue No.	79 (cont)
LM End	7.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.072292°	39.072292°
				-121.744907°	-121.744907°
DWR ID	19985				
Comment Code					
Inspector Comment					
DS_ID:19985 FS_ID:55238 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no permit has been identified authorizing line. Will need to coordinate with Calpine Pipeline Company to determine if a permit has been issued for the line. Also need to request installation records and maintenance records for this crossing. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - aFreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/08/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 2:22:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55238_76970.jpg



Close up of marker

LM Start	7.83	Rating **	M	Issue No.	34
LM End	7.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.067299°	39.067299°
				-121.742851°	-121.742851°
DWR ID	DWR_ST0002_01_f_2016_34				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0002_450_34_20190822_00007.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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	7.90	Rating **	A/W	Issue No.	41
LM End	8.66	Issue Type +	Ob	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.066360°	39.055830°
				-121.742320°	-121.738090°
DWR ID	FSRP-13-65				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:175					
Site Designation:FSRP-13-65					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	82
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.033522°	39.033522°	
			-121.728927°	-121.728927°	
DWR ID	16884				
Comment Code					
Inspector Comment					
<p>DS_ID:16884 FS_ID:55241 EP_NO: 14455-1 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no records were available to determine the current condition of line. Need to contact owner to determine status of line. Unable to determine if line continues to be inactive. (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP) 04/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard - AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)04/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)05/07/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]). FS Date: 5/1/2019 2:13:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55241_65217.jpg



Gasline markers on LS toe .

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	82 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.033522°	39.033522°
				-121.728927°	-121.728927°
DWR ID	16884				
Comment Code					
Inspector Comment					
<p>DS_ID:16884 FS_ID:55241 EP_NO: 14455-1 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no records were available to determine the current condition of line. Need to contact owner to determine status of line. Unable to determine if line continues to be inactive. (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP) 04/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard - AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)04/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)05/07/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]). FS Date: 5/1/2019 2:13:00 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_55241_65216.jpg



Gasline markers on WS shoulder.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	82 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.033522°	39.033522°
				-121.728927°	-121.728927°
DWR ID	16884				

Comment Code

Inspector Comment

DS_ID:16884
 FS_ID:55241
 EP_NO: 14455-1
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 05/01/2019 Record remains Non-Urgent, no records were available to determine the current condition of line. Need to contact owner to determine status of line. Unable to determine if line continues to be inactive. (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)
 04/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard - AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)04/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)05/07/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)
 FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]).
 FS Date: 5/1/2019 2:13:00 PM

Photo 3 of 3 : UCIP_FA_2019_55241_74958.jpg



Damaged gas lines at the WS berm.

* 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	83
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.033519°	39.033519°	
			-121.728926°	-121.728926°	
DWR ID	16899				
Comment Code					
Inspector Comment					
<p>DS_ID:16899 FS_ID:55242 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no records were available to determine the current condition of line. Need to contact owner to determine status of line. Unable to determine if line continues to be inactive. (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP) 04/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 It is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but I'm not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)04/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)05/07/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]). FS Date: 5/1/2019 2:14:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55242_65219.jpg



Gasline markers on LS toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	84
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.033517°	39.033517°	
			-121.728925°	-121.728925°	
DWR ID	16900				
Comment Code					
Inspector Comment					
<p>DS_ID:16900 FS_ID:55243 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no records were available to determine the current condition of line. Need to contact owner to determine status of line. Unable to determine if line continues to be inactive. (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP) 04/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 It is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but I'm not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)04/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)05/07/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]). FS Date: 5/1/2019 2:15:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55243_65224.jpg



Gasline markers on LS toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	84 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.033517°	39.033517°	
			-121.728925°	-121.728925°	
DWR ID	16900				
Comment Code					
Inspector Comment					
<p>DS_ID:16900 FS_ID:55243 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no records were available to determine the current condition of line. Need to contact owner to determine status of line. Unable to determine if line continues to be inactive. (O. Magana - DWR UCIP)10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stabilized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP) 04/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 It is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but I'm not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)04/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)05/07/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)05/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)05/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Cooperation [CRC]). FS Date: 5/1/2019 2:15:00 PM</p>					



Damaged gas lines at WS berm.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.84	Rating **	M	Issue No.	90
LM End	10.84	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.025560 °	39.025560 °
				-121.726846 °	-121.726846 °
DWR ID	16872				
Comment Code					
Inspector Comment					
DS_ID:16872 FS_ID:55275 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, pipe has been abandoned. Pumping Plant No. 2 has been converted to a gravity system so the need for the 10-inch pipe is no longer needed; 10-inch pipe has been abandoned. This crossing should be removed or abandoned according to Title 23 requirements. (O. Magana - DWR UCIP)04/11/2017 Abandoned. 10/10/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing but no noticeable issues to report.05/07/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/08/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch drainage pipe through the levee, 2 feet below the crown. Siphon breaker in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. Minimalistic design drawings available. (two 10-inch pipes, different locations, authorized under Permit No. 3165, 1959 - State of California Department of Water Resources [DWR], pipes are for the purpose of providing an auxillary sump pump at each pumping plant). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/1/2019 3:14:00 PM					

LM Start	10.84	Rating **	M	Issue No.	90 (cont)
LM End	10.84	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55275_65264.jpg



Siphon breaker in 36-inch CMP riser on WS shoulder. Pipe visible at siphon breaker.

Photo 2 of 3 : UCIP_FA_2019_55275_81420.jpg



Overview of levee crown looking u/s towards pipe crossing, 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.84	Rating **	M	Issue No.	90 (cont)
LM End	10.84	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.025560 °	39.025560 °
				-121.726846 °	-121.726846 °
DWR ID	16872				
Comment Code					
Inspector Comment					
<p>DS_ID:16872 FS_ID:55275 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, pipe has been abandoned. Pumping Plant No. 2 has been converted to a gravity system so the need for the 10-inch pipe is no longer needed; 10-inch pipe has been abandoned. This crossing should be removed or abandoned according to Title 23 requirements. (O. Magana - DWR UCIP)04/11/2017 Abandoned. 10/10/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing but no noticeable issues to report.05/07/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/08/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch drainage pipe through the levee, 2 feet below the crown. Siphon breaker in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. Minimalistic design drawings available. (two 10-inch pipes, different locations, authorized under Permit No. 3165, 1959 - State of California Department of Water Resources [DWR], pipes are for the purpose of providing an auxillary sump pump at each pumping plant). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/1/2019 3:14:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55275_81421.jpg



Overview of levee crown looking u/s towards pipe crossing, photo 2 of 2.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	10.85	Rating **	M	Issue No.	91 (cont)
LM End	10.85	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.025310°	39.025310°
				-121.726770°	-121.726770°
DWR ID	19986				
Comment Code					
Inspector Comment					
<p>DS_ID:19986 FS_ID:55276 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no records were made available to determine status of line. Need to contact owner to obtain maintenance records associated with this crossing and provide current status of crossing. No permit has been found authorizing this crossing. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Same as last inspection.10/09/2012 No permit identified for crossing. FIELD_STRUCT_DESC: Gas pipeline of an unknown size or material crosses the levee, at an unknown depth. Carsonite signs on both the landside (LS) and the waterside (WS) shoulder. Pipeline is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 3:14:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55276_76971.jpg



Close up of marker

LM Start	12.75	Rating **	C	Issue No.	44
LM End	12.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.998698°	38.998698°
				-121.718062°	-121.718062°
DWR ID	DWR_ST0002_01_s_2018_44				
Comment Code					
MA : Material					
Inspector Comment					
Remove the tires from the waterside slope and toe.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	13.35	Rating **	M	Issue No.	93
LM End	13.35	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.991808°	38.991808°	
			-121.711512°	-121.711512°	
DWR ID	16873				
Comment Code					
Inspector Comment					
<p>DS_ID:16873 FS_ID:55278 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing this crossing. Pipe appears to be a newer pipe. Need to contact owner to obtain maintenance records for pipe crossing and permit authorizing pipe. (O. Magana - DWR UCIP)04/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)04/18/2016 Crossing appears in good condition. No noticeable issues to report.05/07/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Verify work (if any) was done to replace original equipment with inspector. FIELD_STRUCT_DESC: 18-inch irrigation pipe of an unknown material through the levee, 5.5 feet below the crown. Pipe measures 16 inches at pump and on the landside (LS) outlet. Siphon breaker in a 16-inch corrugated metal pipe (CMP) riser unit on the LS slope. Pump on pile structure in the channel. Meter and pole on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 449+15)]. FS Date: 5/1/2019 3:15:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_55278_65302.jpg



Pump on Pier on WS toe.

LM Start	13.35	Rating **	M	Issue No.	93 (cont)
LM End	13.35	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55278_65301.jpg



Siphon Breaker in 16-inch steel riser on LS shoulder.

<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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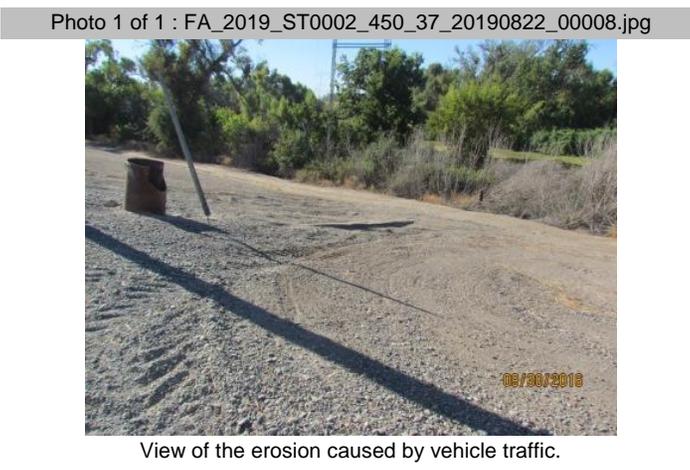
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

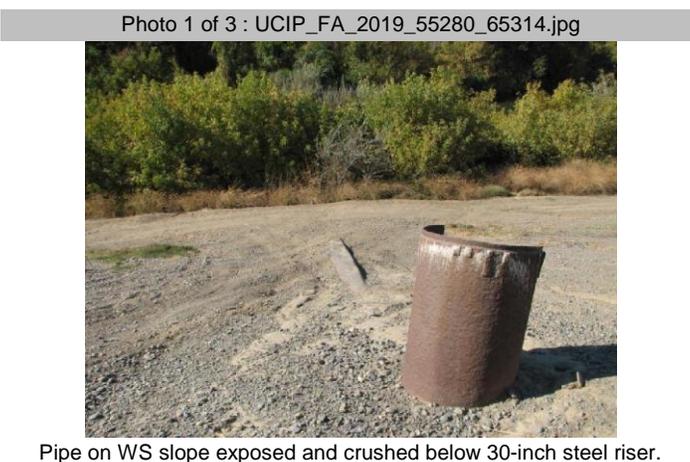
Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	14.71	Rating **	M	Issue No.	37
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_37				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					



LM Start	14.71	Rating **	M	Issue No.	94
LM End	14.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.979377 °	38.979377 °
				-121.691929 °	-121.691929 °
DWR ID	16875				
Comment Code					
Inspector Comment					
DS_ID:16875 FS_ID:55280 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, pipe is abandoned. Pipe needs to be abandoned properly according to Title 23 requirements. Internal inspection was completed by DWR DMP (see report). (O. Magana - DWR UCIP)04/11/2017 Abandoned. (DWR Sutter Yard- AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)04/18/2016 Abandoned crossing.05/07/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Pipe has not been abandoned properly. It should be removed from the levee section. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 5/1/2019 3:16:00 PM					



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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	14.71	Rating **	M	Issue No.	94 (cont)
LM End	14.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.979377°	38.979377°
				-121.691929°	-121.691929°
DWR ID	16875				
Comment Code					
Inspector Comment					
DS_ID:16875 FS_ID:55280 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, pipe is abandoned. Pipe needs to be abandoned properly according to Title 23 requirements. Internal inspection was completed by DWR DMP (see report). (O. Magana - DWR UCIP)04/11/2017 Abandoned. (DWR Sutter Yard- AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard - aFreitag)04/18/2016 Abandoned crossing.05/07/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Pipe has not been abandoned properly. It should be removed from the levee section. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 5/1/2019 3:16:00 PM					

Photo 2 of 3 : UCIP_FA_2019_55280_65313.jpg



Steel riser on LS shoulder.

LM Start	14.71	Rating **	M	Issue No.	94 (cont)
LM End	14.71	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_55280_65312.jpg



Crushed pipe on WS slope.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	95 (cont)
LM End	15.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.969718 °	38.969718 °
				-121.676633 °	-121.676633 °
DWR ID	16892				
Comment Code					
Inspector Comment					
DS_ID:16892 FS_ID:55281 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this pipe. No signs of pipe are present at this location. O&M Manual under Section 2, Structures Affecting Levee Maintenance (continued), indicates pipe has been abandoned and plugged with concrete. (O. Magana - DWR UCIP)04/11/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/10/2016 Unable to locate. (DWR Sutter Yard - afreitag)04/18/2016 Unable to locate.05/07/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch drainage pipe of an unknown material through the levee, at an unknown depth. Pipe has been abandoned in place and plugged with concrete. [Additional Reference(s): USACE Sacramento O&M Manual 315, May 1953 (Station 321+15), pipe abandoned - plugged with concrete, Drawing No. 50-4-1946-2]. FS Date: 5/1/2019 3:17:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55281_81459.jpg



LS view: overview of LS where pipe should be.

LM Start	17.60	Rating **	M	Issue No.	21
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.949965 °	38.949965 °
				-121.653823 °	-121.653823 °
DWR ID	DWR_ST0002_01_s_ 2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : FA_2019_ST0002_450_21_20190822_00002.jpg



View of the vehicle erosion along the waterside slope.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	17.60	Rating **	M	Issue No.	21 (cont)
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.949965 °	38.949965 °	
			-121.653823 °	-121.653823 °	
DWR ID	DWR_ST0002_01_s_2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 2 of 2 : FA_2019_ST0002_450_21_20190822_00003.jpg



View of the vehicle erosion along the waterside slope.

LM Start	19.14	Rating **	M	Issue No.	96
LM End	19.14	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.932875 °	38.932875 °	
			-121.635549 °	-121.635549 °	
DWR ID	16876				
Comment Code					
Inspector Comment					
DS_ID:16876 FS_ID:55284 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, unable to locate abandoned line or permit authorizing pipe. DWR Geophysics study did not confirm the non-metallic pipe crossing. Record will remain in UCIP database. No permit authorizing this encroachment was ever found. (O. Magana - DWR UCIP)04/11/2017 Unable to locate. (DWR Sutter Yard - AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)04/18/2016 Unable to locate.05/07/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 No action necessary. FIELD_STRUCT_DESC: *ABANDONED* 12-inch polyvinyl chloride (PVC) irrigation pipe through the levee, at an unknown depth. Line is abandoned near bow levee. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/1/2019 2:40:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55284_81467.jpg



Overview of levee crown looking d/s towards 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	19.18	Rating **	M	Issue No.	99 (cont)
LM End	19.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.932460 °	38.932460 °
				-121.635150 °	-121.635150 °
DWR ID	17028				
Comment Code					
Inspector Comment					
<p>DS_ID:17028 FS_ID:55287 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pump station. As noted back in 2016 by A. Freitag, this pumping plant has been modified to be used as a gravity drain to regulate the water levee in the LS ditch. This pumping station is maintained by DWR Sutter Yard. (O. Magana - DWR UCIP)04/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - A.Freitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - a Freitag)04/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.05/07/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/09/2012 Need to determine type of abandonment for concrete culverts. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 5/1/2019 2:43:00 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_55287_65332.jpg



Slide gates on WS shoulder.

<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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	19.18	Rating **	M	Issue No.	100
LM End	19.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.932423°	38.932423°
				-121.635085°	-121.635085°
DWR ID	16878				
Comment Code					
Inspector Comment					
DS_ID:16878 FS_ID:55288 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, pipe has been abandoned. Pumping Plant No. 1 has been converted to a gravity system so the need for the 10-inch pipe is no longer needed; 10-inch pipe has been abandoned. This crossing should be removed or abandoned according to Title 23 requirements. (O. Magana - DWR UCIP)04/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing. (DWR Suter Yard-afreitag)04/18/2015 Abandoned crossing. No noticeable issues to report.05/07/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser unit on the waterside (WS) shoulder. Flap gate on the WS end. (two 10-inch pipes, different locations, authorized under Permit No. 3165, 1959 - State of California, Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/1/2019 2:44:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55288_65334.jpg



36-inch CMP riser on WS shoulder.

LM Start	19.18	Rating **	M	Issue No.	100 (cont)
LM End	19.18	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55288_81497.jpg



WS side: riser cover visible through dense vegetation.

* 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	19.18	Rating **	M	Issue No.	100 (cont)
LM End	19.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.932423°	38.932423°
				-121.635085°	-121.635085°
DWR ID	16878				
Comment Code					
Inspector Comment					
<p>DS_ID:16878 FS_ID:55288 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, pipe has been abandoned. Pumping Plant No. 1 has been converted to a gravity system so the need for the 10-inch pipe is no longer needed; 10-inch pipe has been abandoned. This crossing should be removed or abandoned according to Title 23 requirements. (O. Magana - DWR UCIP)04/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing. (DWR Suter Yard-afreitag)04/18/2015 Abandoned crossing. No noticeable issues to report.05/07/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.05/14/2014 Same as last inspection.10/30/2013 Same as last inspection.05/23/2013 Same as last inspection.10/09/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser unit on the waterside (WS) shoulder. Flap gate on the WS end. (two 10-inch pipes, different locations, authorized under Permit No. 3165, 1959 - State of California, Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/1/2019 2:44:00 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_55288_81498.jpg



LS view: overview of where pipe should be. No signs were found of pipe.

LM Start	19.21	Rating **	C	Issue No.	50
LM End	19.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.932019°	38.932019°
				-121.634713°	-121.634713°
DWR ID	DWR_ST0002_01_s_2019_50				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The tree trunks and limbs should be removed from the waterside toe.					

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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	19.73	Rating **	C	Issue No.	49
LM End	19.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.926346°	38.926346°
				-121.628543°	-121.628543°
DWR ID	DWR_ST0002_01_s_2019_49				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The large tree trunk should be removed from the waterside toe.					

No Photos

LM Start	20.02	Rating **	C	Issue No.	29
LM End	20.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.922678°	38.922678°
				-121.625890°	-121.625890°
DWR ID	DWR_ST0002_01_f_2015_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	20.34	Rating **	U	Issue No.	10
LM End	20.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.918147°	38.918147°
				-121.624545°	-121.624545°
DWR ID	DWR_ST0002_01_s_2012_10				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2019_ST0002_450_10_20190822_00001.jpg



View of the house next to the toe of 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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	20.35	Rating **	M	Issue No.	53
LM End	20.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.918015°	38.918015°	
			-121.624383°	-121.624383°	
DWR ID	DWR_ST0002_01_f_2019_53				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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 East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/25/2019 09/25/2019	Makar Sokol

LM Start	21.29	Rating **	A/W	Issue No.	43
LM End		Issue Type +	Ob	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.904832 °	°
				-121.620151 °	°
DWR ID	164-24				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:174					
Site Designation:164-24					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

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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