

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2020 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)				

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

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2020 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)				
Date of Inspection	3/17/2020 - 3/17/2020			
DWR Inspector	Makar Sokol			
Accompanied By				

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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	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	
DWR ID	DWR_ST0002_01_s_2013_4			o	
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	
DWR ID	DWR_ST0002_01_s_2013_5			o	
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	
DWR ID	DWR_ST0002_01_s_2013_6			o	
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	+ 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	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 : SP_2020_ST0002_450_48_20200226_00011.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 : SP_2020_ST0002_450_47_20200226_00010.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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	0.27	Rating **	M	Issue No.	65
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.147956 °	39.147956 °	
			-121.829526 °	-121.829526 °	
DWR ID	16867				
Comment Code					
Inspector Comment					
<p>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</p>					

Photo 1 of 3 : UCIP_SP_2020_55013_78814.jpg



Overview of levee section looking towards HWY 20.

LM Start	0.27	Rating **	M	Issue No.	65 (cont)
LM End	0.27	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_55013_78812.jpg



WS view: overview of crown.

<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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	0.32	Rating **	M	Issue No.	66 (cont)
LM End	0.32	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147478 °	39.147478 °
				-121.828747 °	-121.828747 °
DWR ID	16890				

Photo 3 of 3 : UCIP_SP_2020_55983_64778.jpg



Alignment painted on gravel at door of jeep.

LM Start	0.32	Rating **	M	Issue No.	67
LM End	0.32	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147463 °	39.147463 °
				-121.828716 °	-121.828716 °
DWR ID	16859				

No Photos

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_STRUCTURE_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 (HLM 0.33)].
 FS Date: 2/12/2019 3:02:00 PM

* 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	0.34	Rating **	M	Issue No.	68
LM End	0.34	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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 (HLM 0.34)]. FS Date: 2/12/2019 3:02:00 PM</p>					

Photo 1 of 3 : UCIP_SP_2020_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.	68 (cont)
LM End	0.34	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	0.34	Rating **	M	Issue No.	68 (cont)
LM End	0.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147328 °	39.147328 °
				-121.828452 °	-121.828452 °
DWR ID	16860				

Photo 3 of 3 : UCIP_SP_2020_55017_65220.jpg



Possible vent on WS across channel.

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 : SP_2020_ST0002_450_42_20200226_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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	0.40	Rating **	M	Issue No.	69
LM End	0.40	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.146811 °	39.146811 °	
			-121.827497 °	-121.827497 °	
DWR ID	16861				
Comment Code					
Inspector Comment					
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 (HLM 0.40)]. FS Date: 2/12/2019 3:03:00 PM					

Photo 1 of 3 : UCIP_SP_2020_55986_78829.jpg



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

LM Start	0.40	Rating **	M	Issue No.	69 (cont)
LM End	0.40	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_55986_78832.jpg



LV crown: gravel levee 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	0.40	Rating **	M	Issue No.	69 (cont)
LM End	0.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.146811 °	39.146811 °
				-121.827497 °	-121.827497 °
DWR ID	16861				

Photo 3 of 3 : UCIP_SP_2020_55986_78834.jpg



LS view: clear LS slope.

LM Start	0.99	Rating **	M	Issue No.	64
LM End	0.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.141873 °	39.141873 °
				-121.818520 °	-121.818520 °
DWR ID	DWR_ST0002_01_s_2020_64				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2020_ST0002_450_64_20200319_00121.jpg



View of the erosion at the waterside toe. Spring 2020.

LM Start	1.11	Rating **	M	Issue No.	46
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.140817 °	39.140817 °
				-121.816848 °	-121.816848 °
DWR ID	DWR_ST0002_01_f_2019_46				
Comment Code					
GA : Garbage					
Inspector Comment					
Remove the garbage from the waterside shoulder.					

Photo 1 of 1 : SP_2020_ST0002_450_46_20200226_00009.jpg



View of the garbage 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	1.12	Rating **	M	Issue No.	70 (cont)
LM End	1.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID	16862				

Photo 2 of 3 : UCIP_SP_2020_55020_78842.jpg



WS view: overview of WS, photo taken d/s looking u/s towards crossing.

LM Start	1.12	Rating **	M	Issue No.	70 (cont)
LM End	1.12	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55020_78845.jpg



WS view: soil disturbance where riser was previously located.

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 : SP_2020_ST0002_450_57_20200226_00014.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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	1.60	Rating **	M	Issue No.	71
LM End	1.60	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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- A Freitag)10/10/2016 Unable to locate. (DWR Sutter Yard - a Freitag)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 (HLM 1.61), listed as abandoned 16-inch pipe. USACE Sacramento O&M Manual, Unit 135, May 1953, Revised 29 Dec 2016, (Station 1069+60), listed as 18-inch pipe. USACE As-Built Drawing No. 50-04-1946-2, Drawing No. 3, page 3 of 4 pdf file, August 1941]. 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	2.49	Rating **	M	Issue No.	72 (cont)
LM End	2.49	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.129259 °	39.129259 °
				-121.795751 °	-121.795751 °
DWR ID	16866				

Photo 3 of 3 : UCIP_SP_2020_55988_64807.jpg



Carsonite marker on WS toe.

LM Start	2.50	Rating **	M	Issue No.	73
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.129247 °	39.129247 °
				-121.795727 °	-121.795727 °
DWR ID	16864				

Photo 1 of 3 : UCIP_SP_2020_55023_78848.jpg



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

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 (HLM 2.49)]. FS Date: 2/12/2019 3:04:00 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	74
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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 (HLM 2.50)]. 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	75
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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 (HLM 2.50)]. 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	3.55	Rating **	M	Issue No.	78
LM End	3.55	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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	5.19	Rating **	M	Issue No.	45
LM End	5.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.103368 °	39.103368 °	
			-121.758760 °	-121.758760 °	
DWR ID	DWR_ST0002_01_s_2018_45				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2020_ST0002_450_45_20200226_00008.jpg



View of the vehicle traffic 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	7.41	Rating **	M	Issue No.	80
LM End	7.41	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.073082 °	39.073082 °	
			-121.745212 °	-121.745212 °	
DWR ID	16886				
Comment Code					
Inspector Comment					
<p>DS_ID:16886 FS_ID:55997 EP_NO: 13800A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/01/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were made available to determine condition of line through the levee. Need to contact owner to determine current status of line. (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. FIELD_STRUCT_DESC: 6-inch steel natural gas pipeline bored under the levee, 67 feet under the levee. The natural gas pipeline was installed using the directional bore method through both levees and under the Sutter Bypass and tying back to existing pipeline. Alignment approximately 15 feet south of bridge. Gas line marker on south side of Hughes Road, approximately 450 feet east of the crown. As-built drawing available. This pipeline replaces an 8-inch pipe constructed north of the bridge under Permit No. 13800. (6-inch pipe installed under Permit No. 13800-A, 2002 - Pacific Gas and Electric Company [PG&E] to replace existing 8-inch pipe authorized under Permit No. 13800, 1989 - Greenleaf Power Corp. [Re-assigned to PG&E]). FS Date: 5/1/2019 2:21:00 PM</p>					

Photo 1 of 3 : UCIP_SP_2020_55997_65208.jpg



Gasline marker along south side of Hughes Road 450-feet east of crown.

<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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	7.41	Rating **	M	Issue No.	80 (cont)
LM End	7.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.073082 °	39.073082 °
				-121.745212 °	-121.745212 °
DWR ID	16886				

Photo 2 of 3 : UCIP_SP_2020_55997_76968.jpg



New WS markers

LM Start	7.41	Rating **	M	Issue No.	80 (cont)
LM End	7.41	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55997_76969.jpg



Close up of marker

* 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	7.47	Rating **	M	Issue No.	82 (cont)
LM End	7.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.072292 °	39.072292 °
				-121.744907 °	-121.744907 °
DWR ID	19985				

Photo 3 of 3 : UCIP_SP_2020_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 : SP_2020_ST0002_450_34_20200226_00005.jpg



View of the erosion along the waterside toe.

LM Start	7.90	Rating **	A/W	Issue No.	41
LM End	8.66	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			39.066360 °	39.055830 °
				-121.742320 °	-121.738090 °
DWR ID	FSRP-13-65				
Comment Code					
Inspector Comment					
This is a known seepage area and was a 2017 Storm Damage site. Site ID No:175 Site Designation:FSRP-13-65					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	8.11	Rating **	M	Issue No.	63
LM End	8.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.063343 °	39.063343 °
				-121.741183 °	-121.741183 °
DWR ID	DWR_ST0002_01_s_2020_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	8.14	Rating **	M	Issue No.	83
LM End	8.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.062976 °	39.062976 °
				-121.741027 °	-121.741027 °
DWR ID	19984				
Comment Code					
Inspector Comment					
DS_ID:19984 FS_ID:55999 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/01/2019 Record remains Non-Urgent, no permit has been found authorizing crossing. Need to contact owner to obtain details of installation, permit details, and confirmation that pipe crosses the levee. (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 or purpose identified for this crossing. FIELD_STRUCT_DESC: 2.5-inch steel pipe of an unknown purpose bored under the levee, at an unknown depth. Pipe has locked cap on the landside (LS) toe. Steel I-beam stream crossing on the LS toe marks the location of the pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/1/2019 2:23:00 PM					

Photo 1 of 3 : UCIP_SP_2020_55999_65215.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	8.14	Rating **	M	Issue No.	83 (cont)
LM End	8.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.062976 °	39.062976 °
				-121.741027 °	-121.741027 °
DWR ID	19984				

Photo 2 of 3 : UCIP_SP_2020_55999_65214.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

LM Start	8.14	Rating **	M	Issue No.	83 (cont)
LM End	8.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55999_81313.jpg



LS view: overview of LS.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	86
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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_SP_2020_55242_65219.jpg



Gasline markers on LS toe.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	10.28	Rating **	M	Issue No.	87
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.033517 °	39.033517 °	
			-121.728925 °	-121.728925 °	
DWR ID	16900				

Comment Code

Inspector Comment

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

Photo 1 of 3 : UCIP_SP_2020_55243_65224.jpg



Gasline markers on LS toe.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	10.83	Rating **	M	Issue No.	90
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.025673 °	39.025673 °	
			-121.726873 °	-121.726873 °	
DWR ID	16907				
Comment Code					
Inspector Comment					
<p>DS_ID:16907 FS_ID:55254 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. This pump station is used as a gravity drainage structure, pumps have been removed from this structure. (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 culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.05/13/2014 Same as last inspection.10/30/2013 Same as last inspection.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/08/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: [Pumping Plant No. 2] 3 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005 (HLM 11.00). USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 5/1/2019 2:31:00 PM</p>					

Photo 1 of 3 : UCIP_SP_2020_55254_65257.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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	10.83	Rating **	M	Issue No.	91
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.025656 °	39.025656 °	
			-121.726878 °	-121.726878 °	
DWR ID	16908				
Comment Code					
Inspector Comment					
<p>DS_ID:16908 FS_ID:55255 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. This pump station is used as a gravity drainage structure, pumps have been removed from this structure. (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 culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/08/2012 Need to determine type of abandonment.05/22/2013 Concrete culvert is being used as gravity drain for LS ditch. FIELD_STRUCT_DESC: [Pumping Plant No. 2] 4 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005 (HLM 11.00). USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 5/1/2019</p>					

Photo 1 of 3 : UCIP_SP_2020_55255_65260.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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	10.83	Rating **	M	Issue No.	91 (cont)
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °
				-121.726878 °	-121.726878 °
DWR ID	16908				

Photo 2 of 3 : UCIP_SP_2020_55255_65259.jpg



Flap gates on WS toe.

LM Start	10.83	Rating **	M	Issue No.	91 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55255_65258.jpg



Pumphouse and intake on LS toe.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	10.84	Rating **	M	Issue No.	93 (cont)
LM End	10.84	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.025560 °	39.025560 °	
			-121.726846 °	-121.726846 °	
DWR ID	16872				

Photo 3 of 3 : UCIP_SP_2020_55275_81421.jpg



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

LM Start	10.85	Rating **	M	Issue No.	94
LM End	10.85	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.025310 °	39.025310 °	
			-121.726770 °	-121.726770 °	
DWR ID	19986				

Photo 1 of 3 : UCIP_SP_2020_55276_65266.jpg



Gasline marker on LS shoulder.

Comment Code					
Inspector Comment					
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					

* 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	10.85	Rating **	M	Issue No.	94 (cont)
LM End	10.85	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025310 °	39.025310 °
				-121.726770 °	-121.726770 °
DWR ID	19986				

Photo 2 of 3 : UCIP_SP_2020_55276_65265.jpg



Gasline marker on WS shoulder.

LM Start	10.85	Rating **	M	Issue No.	94 (cont)
LM End	10.85	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55276_76971.jpg



Close up of marker

* 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	12.94	Rating **	M	Issue No.	95 (cont)
LM End	12.94	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.996304 °	38.996304 °	
			-121.716290 °	-121.716290 °	
DWR ID	16883				

Photo 3 of 3 : UCIP_SP_2020_55277_81433.jpg



LS view: overview of LS, photo 2 of 2.

LM Start	13.34	Rating **	C	Issue No.	23
LM End	13.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.991857 °	38.991857 °	
			-121.711555 °	-121.711555 °	
DWR ID	DWR_ST0002_01_s_2015_23				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Monitor the erosion along the waterside slope.					

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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	13.35	Rating **	M	Issue No.	96 (cont)
LM End	13.35	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.991808 °	38.991808 °
				-121.711512 °	-121.711512 °
DWR ID	16873				

Photo 3 of 3 : UCIP_SP_2020_55278_65300.jpg



Pump on Pier structure on WS toe.

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					

Photo 1 of 1 : SP_2020_ST0002_450_37_20200226_00006.jpg



View of the erosion caused by vehicle traffic.

* 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	14.71	Rating **	M	Issue No.	97
LM End	14.71	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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 (HLM 14.89). USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 5/1/2019 3:16:00 PM					

Photo 1 of 3 : UCIP_SP_2020_55280_65314.jpg



Pipe on WS slope exposed and crushed below 30-inch steel riser.

LM Start	14.71	Rating **	M	Issue No.	97 (cont)
LM End	14.71	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_55280_65313.jpg



Steel riser on LS shoulder.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	14.71	Rating **	M	Issue No.	97 (cont)	
LM End	14.71	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
			Start	End		
Item	DWR UCIP Field Study			38.979377 °	38.979377 °	
				-121.691929 °	-121.691929 °	
DWR ID	16875					

Photo 3 of 3 : UCIP_SP_2020_55280_65312.jpg



Crushed pipe on WS slope.

LM Start	15.77	Rating **	M	Issue No.	98	
LM End	15.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
			Start	End		
Item	DWR UCIP Field Study			38.969718 °	38.969718 °	
				-121.676633 °	-121.676633 °	
DWR ID	16892					

Photo 1 of 3 : UCIP_SP_2020_55281_81457.jpg



WS view: overview of WS where pipe should be.

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

* 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	15.77	Rating **	M	Issue No.	98 (cont)
LM End	15.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.969718 °	38.969718 °
				-121.676633 °	-121.676633 °
DWR ID	16892				

Photo 2 of 3 : UCIP_SP_2020_55281_81458.jpg



Overview of levee crown looking u/s towards where pipe should be.

LM Start	17.60	Rating **	M	Issue No.	98 (cont)
LM End	15.77	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_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 1 : SP_2020_ST0002_450_21_20200319_00122.jpg



View of the vehicle erosion along the waterside slope. Spring 2020.

* 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	19.14	Rating **	M	Issue No.	99
LM End	19.14	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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 (HLM 19.42)]. FS Date: 5/1/2019 2:40:00 PM					

Photo 1 of 3 : UCIP_SP_2020_55284_81467.jpg



Overview of levee crown looking d/s towards where crossing should be.

LM Start	19.14	Rating **	M	Issue No.	99 (cont)
LM End	19.14	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_55284_81468.jpg



WS view: overview of WS where pipe should cross 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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	19.18	Rating **	M	Issue No.	102
LM End	19.18	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	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 - AFreitag)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 - 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 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 (HLM 19.47). USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 5/1/2019 2:43:00 PM</p>					

Photo 1 of 3 : UCIP_SP_2020_55287_65333.jpg



Pumphouse on LS toe.

<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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	19.18	Rating **	M	Issue No.	103 (cont)
LM End	19.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932423 °	38.932423 °
				-121.635085 °	-121.635085 °
DWR ID	16878				

Photo 3 of 3 : UCIP_SP_2020_55288_81498.jpg



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

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 : SP_2020_ST0002_450_10_20200319_00123.jpg



View of the house next to the landside toe. Spring 2020.

LM Start	20.35	Rating **	C	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 - Spring 2020

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/17/2020 03/17/2020	Makar Sokol

LM Start	21.05	Rating **	M	Issue No.	104 (cont)
LM End	21.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.908243 °	38.908243 °
				-121.621244 °	-121.621244 °
DWR ID	16881				

Photo 2 of 3 : UCIP_SP_2020_55294_65352.jpg



Pump on Pier WS toe.

LM Start	21.05	Rating **	M	Issue No.	104 (cont)
LM End	21.05	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55294_65351.jpg



Slide gate at WS toe.

LM Start	21.29	Rating **	A/W	Issue No.	43
LM End	21.29	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			38.904832 °	38.904832 °
				-121.620151 °	-121.620151 °
DWR ID	164-24				
Comment Code					
Inspector Comment					
Known location for seepage and sandboils. Site ID No:174 Site Designation:164-24					

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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