

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2016 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0001**

	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 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	16.76
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Keith Millard			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

**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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2016_19				
Comment Code					
Inspector Comment					
The LMA has emergency supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	28
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2013_28				
Comment Code					
Inspector Comment					
The LMA has O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	29
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2013_29				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	0.04	Rating **	U	Issue No.	2
LM End	0.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.213988 °	39.215198 °
				-122.001537 °	-122.004775 °
DWR ID	DWR_MA0001_01_s_2012_2				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_2\_20160316\_00001.jpg



View of the building along the L/S toe.

LM Start	0.32	Rating **	M	Issue No.	73
LM End	0.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.215834 °	39.215834 °
				-122.006222 °	-122.006222 °
DWR ID	DWR_MA0001_01_s_2016_73				
Comment Code					
DE : Debris					
Inspector Comment					
soil pile with weeds and concrete wash out.					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_73\_20160405\_00142.jpg



Soil pile with weeds obstructing access

LM Start	0.67	Rating **	U	Issue No.	7
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.216533 °	39.216680 °
				-122.012512 °	-122.012907 °
DWR ID	DWR_MA0001_01_s_2012_7				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_7\_20160316\_00005.jpg



View of the buildings along the L/S toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	0.79	Rating **	U	Issue No.	8
LM End	0.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.217282 °	39.218215 °
				-122.014290 °	-122.016538 °
DWR ID	DWR_MA0001_01_s_2012_8				
Comment Code					
BU : Building					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	1.17	Rating **	M	Issue No.	652
LM End	1.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.221685 °	39.221685 °
				-122.015720 °	-122.015720 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47553  
DS\_ID:16431  
EP\_NO: 9481  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 LS pipe outlet is rusted and corroded. Wood debris on WS has been removed and erosion on toe road was repaired.4/20/2015 Same as last inspection. No repairs have been made yet. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 LS outlet was underwater and could not be inspected but nothing looks to have been changed.10/18/2012 Need pressure test/video inspection to determine integrity of pipe wall. WS-woody debris scattered along slope & bank. Erosion on bank near ditch. LS-discharge pipe heavily corroded & CMP section missing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0097 for debris & encroachment within 15 feet.  
FIELD\_STRUCT\_DESC: 36-inch irrigation corrugated metal pipe (CMP) through the levee at unknown depth, slide gate on the waterside (WS) slope. This structure was retained under an automatic board order (ABO) issued as Permit No. 9481. (Permit No. 9481-1974, Roberts Ditch Irrigation Company) Crossing penetrates the levee at an angle. Other appurtenances located at this crossing include slant pump, concrete distribution box and shed structure located 100 feet northeast from levee crossing. Flow is carried from concrete distribution box to slide gate via concrete lined ditch. Outlet is viable on landside (LS). This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 63+53).  
FS Date: 5/4/2016 1:52:00 PM

Photo 1 of 2 : UCIP\_SP\_2016\_47553\_70052.jpg



Overview of levee crown at crossing looking U/S.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	<b>1.17</b>	Rating **	M	Issue No.	<b>652 (cont)</b>
LM End	<b>1.17</b>	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.221685 °	39.221685 °
				-122.015720 °	-122.015720 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47553  
DS\_ID:16431  
EP\_NO: 9481  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 LS pipe outlet is rusted and corroded. Wood debris on WS has been removed and erosion on toe road was repaired. 4/20/2015 Same as last inspection. No repairs have been made yet. 6/18/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/18/2013 LS outlet was underwater and could not be inspected but nothing looks to have been changed. 10/18/2012 Need pressure test/video inspection to determine integrity of pipe wall. WS-woody debris scattered along slope & bank. Erosion on bank near ditch. LS-discharge pipe heavily corroded & CMP section missing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0097 for debris & encroachment within 15 feet.  
FIELD\_STRUCT\_DESC: 36-inch irrigation corrugated metal pipe (CMP) through the levee at unknown depth, slide gate on the waterside (WS) slope. This structure was retained under an automatic board order (ABO) issued as Permit No. 9481. (Permit No. 9481-1974, Roberts Ditch Irrigation Company) Crossing penetrates the levee at an angle. Other appurtenances located at this crossing include slant pump, concrete distribution box and shed structure located 100 feet northeast from levee crossing. Flow is carried from concrete distribution box to slide gate via concrete lined ditch. Outlet is viable on landside (LS). This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 63+53).  
FS Date: 5/4/2016 1:52:00 PM

Photo 2 of 2 : UCIP\_SP\_2016\_47553\_70051.jpg



Other appurtenances associated with crossing-Structure, pump, distribution box, and power pole located on WS bank.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	1.20	Rating **	U	Issue No.	6
LM End	1.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.222119 °	39.224063 °
				-122.015747 °	-122.016080 °
DWR ID	DWR_MA0001_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_6\_20160316\_00004.jpg



View of ag. ditch along the L/S toe.

LM Start	1.92	Rating **	M	Issue No.	667
LM End	1.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.231866 °	39.231866 °
				-122.015442 °	-122.015442 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47617 DS_ID:16430 EP_NO: 9487 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal pipe (CMP) through the levee at approximately 12-15 feet below crown. Slide gates in CMP riser located on the waterside (WS) slope. Pipe daylights on landside (LS). This structure was retained under an automatic board order (ABO) issued as Permit No. 9487. (Permit No. 9487-1974, Jimeno Rancho) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 103+18). FS Date: 5/4/2016 1:59:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47617\_70064.jpg



Overview of levee crown and slopes looking upstream towards crossing.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	1.92	Rating **	M	Issue No.	667 (cont)	
LM End	1.92	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.231866 °	39.231866 °	
				-122.015442 °	-122.015442 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47617 DS_ID:16430 EP_NO: 9487 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal pipe (CMP) through the levee at approximately 12-15 feet below crown. Slide gates in CMP riser located on the waterside (WS) slope. Pipe daylights on landside (LS). This structure was retained under an automatic board order (ABO) issued as Permit No. 9487. (Permit No. 9487-1974, Jimeno Rancho) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 103+18). FS Date: 5/4/2016 1:59:00 PM						

Photo 2 of 2 : UCIP\_SP\_2016\_47617\_70063.jpg



View of WS looking upstream at CMP riser on slope.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	1.92	Rating **	M	Issue No.	653
LM End	1.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.231880 °	39.231880 °
				-122.015432 °	-122.015432 °
DWR ID					

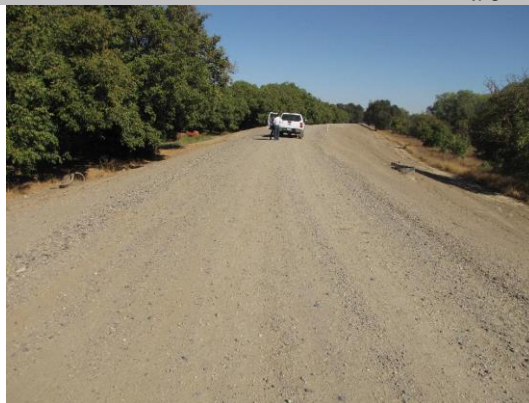
**Comment Code**

**Inspector Comment**

FS\_ID:47556  
DS\_ID:17565  
EP\_NO: 9487  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0116 for crossing outlet deformed and clogged with dirt.  
FIELD\_STRUCT\_DESC: 2 of 2: 36-inch corrugated metal pipe (CMP) through the levee approximately 12-15 feet below crown. Slide gates in CMP riser on the waterside (WS) slope. Pipe daylights on landside (LS). Structure was retained under an automatic board order (ABO) issued as Permit No. 9487. (Permit No. 9487-1974, Jimeno Rancho) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 103+18).  
FS Date: 5/4/2016 1:57:00 PM

LM Start	<b>1.92</b>	Rating **	M	Issue No.	<b>653 (cont)</b>
LM End	<b>1.92</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47556\_70071.jpg



View of levee crown and slopes looking upstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47556\_70074.jpg



View of CMP risers located on WS slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	2.23	Rating **	M	Issue No.	654
LM End	2.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.235993 °	39.235993 °
				-122.012970 °	-122.012970 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47557 DS_ID:16429 EP_NO: 9472 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet (landward side) and debris inside riser. FIELD_STRUCT_DESC: 54-inch corrugated metal (CM) drain pipe through the levee approximately 12-15 feet below crown. Slide gate in CM pipe riser on the waterside (WS) slope. 48-inch CM pipe at landside (LS) slope. This crossing crosses the levee at an angle. This structure was retained under an automatic board order (ABO) issued as Permit No. 9472. (Permit No. 9472-1974, Ballard) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 120+00) dated 1955. FS Date: 5/4/2016 2:00:00 PM					

LM Start	<b>2.23</b>	Rating **	M	Issue No.	<b>654 (cont)</b>
LM End	<b>2.23</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47557\_70078.jpg



View of levee crown looking downstream at crossing. CMP riser located on WS shoulder.

Photo 2 of 2 : UCIP\_SP\_2016\_47557\_70079.jpg



View of WS looking at slope and channel.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	2.25	Rating **	M	Issue No.	655
LM End	2.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.236178 °	39.236178 °
				-122.012812 °	-122.012812 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47558 DS_ID:16428 EP_NO: 9467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here. FIELD_STRUCT_DESC: *ABANDONED* 24-inch drainage corrugated metal pipe (CMP) through levee at an unknown depth. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on landside (LS). This structure was retained under an automatic board order (ABO) issued as Permit No. 9467. (Permit No. 9467-1974, Lovell E. Spurgeon) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 120+60) FS Date: 5/4/2016 2:01:00 PM					

LM Start	2.25	Rating **	M	Issue No.	655 (cont)
LM End	2.25	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47558\_70085.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47558\_70084.jpg



View of WS slope and toe.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	2.25	Rating **	M	Issue No.	80
LM End	2.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.236211 °	39.236211 °
				-122.012775 °	-122.012775 °
DWR ID	DWR_MA0001_01_s_2016_80				
Comment Code					
DE : Debris					
Inspector Comment					
metal roofing and other debris.					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_80\_20160405\_00143.jpg



Equipment and debris obstructing access

LM Start	2.53	Rating **	U	Issue No.	20
LM End	2.55	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.239750 °	39.239955 °
				-122.010390 °	-122.010090 °
DWR ID	DWR_MA0001_01_s_2012_20				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_20\_20160316\_00010.jpg



View of the house next to the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	2.81	Rating **	M	Issue No.	656
LM End	2.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.243410 °	39.243410 °
				-122.008393 °	-122.008393 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47559  
DS\_ID:16416  
EP\_NO: 9474  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Concrete box was filled with dirt to help prevent water from through during high water times.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0169 for concrete box partially filled with dirt.  
FIELD\_STRUCT\_DESC: 1 of 2: 60-inch irrigation concrete pipe through the levee at unknown depth. This crossing penetrates levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gates missing. Structure retained under an automatic board order (ABO) issued as Permit No. 9474. (Permit No. 9774-1974, George R. Zumwalt) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 150+06). O&M description is for 2-5 foot by 5 foot concrete culverts 2-slide gates hand operated. Culvert constructed with wing walls and gate well.  
FS Date: 5/4/2016 2:02:00 PM

LM Start	<b>2.81</b>	Rating **	M	Issue No.	<b>656 (cont)</b>
LM End	<b>2.81</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47559\_70092.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47559\_70094.jpg



View of concrete distribution box and headwall located on WS.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	2.81	Rating **	M	Issue No.	657
LM End	2.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.243433 °	39.243433 °
				-122.008386 °	-122.008386 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47560  
DS\_ID:17567  
EP\_NO: 9474  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Concrete box on WS was filled with soil to help prevent water from flowing through during times of high water.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2015 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0169 for concrete box partially filled with dirt.  
FIELD\_STRUCT\_DESC: 2 of 2: 60-inch irrigation pipe through the levee at an unknown depth. Crossing angles through levee. Slide gates in concrete well at the waterside (WS) toe. Slide gate missing. Structure was retained under an automatic board order (ABO) issued as Permit No. 9474. (Permit No. 9474-1974, George R. Zumwalt) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 150+06). O&M description is for 2-5 foot by 5 foot concrete culverts 2-slide gates hand operated. Culvert constructed with wing walls and gate well.  
FS Date: 5/4/2016 2:09:00 PM

LM Start	<b>2.81</b>	Rating **	M	Issue No.	<b>657 (cont)</b>
LM End	<b>2.81</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47560\_70105.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47560\_70107.jpg



Concrete distribution box and headwall located on WS.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.05	Rating **	U	Issue No.	5
LM End	3.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.246822 °	39.256054 °
				-122.008146 °	-122.009808 °
DWR ID	DWR_MA0001_01_s_2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_5\_20160316\_00003.jpg



View of the ag. ditch & concrete building along the L/S toe.

LM Start	3.09	Rating **	U	Issue No.	81
LM End	3.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.247332 °	39.247332 °
				-122.008164 °	-122.008164 °
DWR ID	DWR_MA0001_01_s_2016_81				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
downed tree covering LS slope.					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_81\_20160405\_00144.jpg



Downed tree obstructing access

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.33	Rating **	M	Issue No.	658
LM End	3.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.250843 °	39.250843 °
				-122.007992 °	-122.007992 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47562 DS_ID:16426 EP_NO: 9490 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe. FIELD_STRUCT_DESC: 36-inch drain pipe through the levee. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Permit No. 9490-1955, Charles & Virginia Yerxa) This entry matches the Drainage and Irrigation structure referenced in O&M manual (Station 177+67). (USACE-1955) FS Date: 5/4/2016 2:12:00 PM					

LM Start	<b>3.33</b>	Rating **	M	Issue No.	<b>658 (cont)</b>
LM End	<b>3.33</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47562\_70110.jpg



View of LS looking upstream.

Photo 2 of 2 : UCIP\_SP\_2016\_47562\_70109.jpg



View of WS looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.68	Rating **	U	Issue No.	659
LM End	3.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.255803 °	39.255803 °
				-122.009683 °	-122.009683 °
DWR ID					

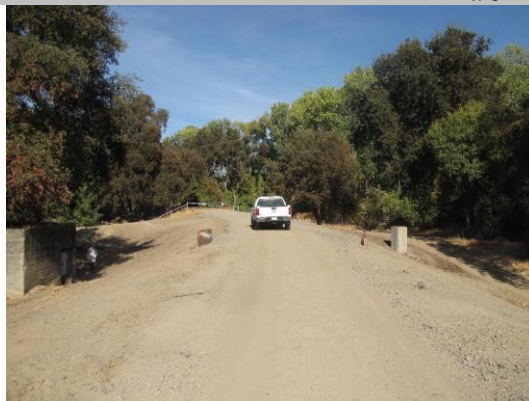
**Comment Code**

**Inspector Comment**

FS\_ID:47563  
DS\_ID:16436  
EP\_NO: 4213  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 No repairs have been made since last inspection. Sink holes are still present above pipe next to concrete building on LS. 4/20/2015 Sink hole over pipe alignment on LS up against the concrete building. Need to dig up pipe and see if its leaking. 6/23/2014 Same as last inspection. 6/18/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/18/2013 Same as last inspection. 10/19/2012 Recommend adding door to LS concrete structure. Riser located on landward side is damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0194 no issues logged.  
FIELD\_STRUCT\_DESC: 24-inch steel irrigation pipe through the levee at approximately 10 feet below crown. Gate valve on waterside (WS) shoulder. 1-1/4 inch conduit through the levee. Siphon breaker on the landside (LS) shoulder. Concrete distribution box and control box located on LS. Pump, walkway, and gate located on WS berm. (Permit No. 4213-1973, Scott Ranch)  
FS Date: 5/4/2016 2:15:00 PM

LM Start	<b>3.68</b>	Rating **	U	Issue No.	<b>659 (cont)</b>
LM End	<b>3.68</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47563\_70222.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47563\_70221.jpg



Gate valve and exposed section of the pipe located on WS.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.71	Rating **	M	Issue No.	682
LM End	3.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.256189 °	39.256189 °
				-122.009957 °	-122.009957 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:48130  
DS\_ID:16424  
EP\_NO: 9490  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 ABANDONED crossing and should be abandoned properly. Concrete distribution box on LS is opened on top and could pose a safety hazard with falling.4/20/2015 Same as last inspection. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID#  
USACE\_CESPK\_MA1C\_2010\_p\_0194-6 & 7 no issues logged.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal irrigation pipe through levee, approximately 12-15 feet below crown. Concrete distribution box with pump system located on landside (LS). Slide gate on the waterside (WS) slope removed. 18-inch pipe visible on LS inside 10-ft x 16-ft concrete box. (Automatic Board Order (ABO) issued as Permit No. 9490-1974, Charles T & Virginia W. Yerxa)  
[Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955 (Station 197+19)]  
FS Date: 5/4/2016 2:16:00 PM

LM Start	<b>3.71</b>	Rating **	M	Issue No.	<b>682 (cont)</b>
LM End	<b>3.71</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_48130\_70125.jpg



Concrete distribution box located on LS.

Photo 2 of 2 : UCIP\_SP\_2016\_48130\_70123.jpg



Abandoned pump system inside concrete structure located on LS.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.77	Rating **	M	Issue No.	660
LM End	3.77	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.256203 °	39.256203 °
				-122.009940 °	-122.009940 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47565  
DS\_ID:16423  
EP\_NO: 9489  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Crossing appears abandoned and should be abandoned properly.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Slide gate wheel handle missing. Clear debris from CMP riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0196 for access box contains backfilled (permanently shut) and outlet located on landside has sediment build up.  
FIELD\_STRUCT\_DESC: 36-inch irrigation corrugated metal pipe (CMP) through the levee at an unknown depth. Slide gate in CMP riser on the waterside (WS) slope. 6 foot by 6 foot concrete box on the WS berm. Additional 12-inch pipe inside concrete distribution box. This structure was retained under an automatic board order (ABO) issued as Permit No. 9489. (Permit No. 9489-1974, Mayfair Farms Inc.) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 198+00).  
FS Date: 5/4/2016 2:19:00 PM

LM Start	<b>3.77</b>	Rating **	M	Issue No.	<b>660 (cont)</b>
LM End	<b>3.77</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47565\_70128.jpg



View of crossing looking upstream. Concrete box located on the WS.

Photo 2 of 2 : UCIP\_SP\_2016\_47565\_70131.jpg



View of concrete distribution box and CMP riser located on WS.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.79	Rating **	M	Issue No.	661
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.256606 °	39.256606 °
				-122.011115 °	-122.011115 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47566					
DS_ID:17659					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: 4/25/2016 Unable to locate.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 USA flag markers show some type of alignment on LS. Unable to determine if crossing still exists at this location.					
FIELD_STRUCT_DESC: 18-inch drain steel pipe through the levee at an unknown depth. Automatic drainage gate on the outlet end of the pipe. This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 150+20). (USACE, 1955)					
FS Date: 5/4/2016 2:22:00 PM					

No Photos

LM Start	3.88	Rating **	M	Issue No.	50
LM End	3.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.257125 °	39.257125 °
				-122.012648 °	-122.012648 °
DWR ID	DWR_MA0001_01_f_2013_50				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_50\_20160316\_00016.jpg



View of the elderberry on the landside slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.95	Rating **	M	Issue No.	662
LM End	3.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.258073 °	39.258073 °
				-122.013165 °	-122.013165 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47567  
DS\_ID:16422  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Appears to be an abandoned crossing.

4/20/2015 Debris is still blocking gate. Appears to be an abandoned crossing. 6/18/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/18/2013 Wheel to operate slide gate has been replaced but gate is still blocked by debris. 10/19/2012 WS-wheel to operate slide gate missing, walkway has been removed; burrow activity near structure; debris in concrete distribution box WS blocking gate. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0207 the wheel to operate sluice gate missing.

FIELD\_STRUCT\_DESC: 24-inch pipe through the levee. Walkway to slide gate on waterside (WS) end. Walkway has been removed. Flap gate in concrete distribution box at the landside (LS) toe.

FS Date: 5/4/2016 2:23:00 PM

LM Start	<b>3.95</b>	Rating **	M	Issue No.	<b>662 (cont)</b>
LM End	<b>3.95</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47567\_70137.jpg



View of levee crown looking upstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47567\_70139.jpg



View of WS slope with concrete structure.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	4.65	Rating **	M	Issue No.	663
LM End	4.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.266435 °	39.266435 °
				-122.010943 °	-122.010943 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47568  
DS\_ID:16421  
EP\_NO: 9475  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Abandoned crossing. Only WS standpipe is visible.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Burrow activity; limited visibility of this crossing only on WS riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0207 the wheel to operate sluice gate missing. Issue addressed wheel to slide gate has been installed.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 30-inch irrigation corrugated metal pipe (CMP) through the levee 16.1 feet below the crown. Slide gate inside CMP riser located on the waterside (WS) end. Line buried on WS and LS. This structure was retained under an automatic board order (ABO) issued as Permit No. 9475. (Permit No. 9475-1974, Mattie B. Zumwalt Co.) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 247+86).  
FS Date: 5/4/2016 2:24:00 PM

LM Start	<b>4.65</b>	Rating **	M	Issue No.	<b>663 (cont)</b>
LM End	<b>4.65</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47568\_70144.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47568\_70147.jpg



Riser with slide gate located on WS toe.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	4.86	Rating **	M	Issue No.	3
LM End	5.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.265730 °	39.266315 °
				-122.014925 °	-122.020682 °
DWR ID	DWR_MA0001_01_s_2016_3				
Comment Code					
Inspector Comment					
2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_151-0_R]					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_3\_20160316\_00002.jpg



USACE 2013 Photo #1

LM Start	4.97	Rating **	M	Issue No.	664
LM End	4.97	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.264924 °	39.264924 °
				-122.015887 °	-122.015887 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47569 DS_ID:16420 EP_NO: 4903 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/25/2016 Appears to be an abandoned crossing.4/20/2015 Suspect that pump on LS is a well pump and has nothing to do with this crossing.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Unable to locate siphon breaker, pump on LS; unable to tell if pump system is part of appurtenances. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0233 for utility pole and 8 inch steel riser located on landward toe. FIELD_STRUCT_DESC: 12-inch irrigation pipe through the levee approximately 18-20 feet below the crown. Siphon breaker in 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder--not found. 3-inch electrical conduit through the levee.--not found. Utility pole visible on LS. No appurtenances visible on waterside (WS). (Permit No. 4903,A-1966, Zumwalt) Well station visible on LS. FS Date: 5/4/2016 2:25:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47569\_70150.jpg



View of levee crown looking downstream at crossing.

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





**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	5.72	Rating **	M	Issue No.	665
LM End	5.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.272069 °	39.272069 °
				-122.023240 °	-122.023240 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47570  
DS\_ID:16419  
EP\_NO: 9476  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0247 for u/s and d/s wing wall shows some cracking and tilting.  
FIELD\_STRUCT\_DESC: 1 of 2: 36-inch irrigation corrugated metal pipe (CMP) and concrete box culvert through the levee at an unknown depth. Concrete headwall visible on landside (LS) toe. Structure retained under an automatic board order (ABO) issued as Permit No. 9476. (Permit No. 9476-1974, Howard C. & Nadine M. Ohliger)  
FS Date: 5/4/2016 2:30:00 PM

LM Start	<b>5.72</b>	Rating **	M	Issue No.	<b>665 (cont)</b>
LM End	<b>5.72</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47570\_70154.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47570\_70152.jpg



View of crossing looking upstream at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	5.72	Rating **	M	Issue No.	666
LM End	5.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.272069 °	39.272069 °
				-122.023240 °	-122.023240 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47571  
DS\_ID:17569  
EP\_NO: 9476  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0247 for u/s and d/s wing wall shows some cracking and tilting.  
FIELD\_STRUCT\_DESC: 2 of 2: 36-inch irrigation corrugated metal pipe (CMP) (15 feet long) and concrete box culvert through the levee at an unknown depth. Slide gate located on waterside (WS). Concrete headwall visible on landside (LS) toe. Structure was retained under an automatic board order (ABO) issued as Permit No. 9476. (Permit No. 9476-1974, Howard C. & Nadine M. Ohliger)  
FS Date: 5/4/2016 2:33:00 PM

LM Start	<b>5.72</b>	Rating **	M	Issue No.	<b>666 (cont)</b>
LM End	<b>5.72</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47571\_70162.jpg



View of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47571\_70161.jpg



View of levee crown looking upstream at crossing.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	5.77	Rating **	M	Issue No.	35
LM End	5.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.272773 °	39.272773 °
				-122.023290 °	-122.023290 °
DWR ID	DWR_MA0001_01_s_2012_35				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	5.77	Rating **	M	Issue No.	669
LM End	5.77	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.272829 °	39.272829 °
				-122.023282 °	-122.023282 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47573 DS_ID:16418 EP_NO: 6263 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Pressure gauge and valve were added to pipe near the siphon breaker on LS shoulder.4/20/2015 Modifications are being made to pipe near the LS shoulder. Not sure what all exactly is being done.6/23/2014 Same as last inspection. 12/17/2013 Same as last inspection.7/18/2013 Debris cleared from in front of LS standpipe.10/19/2012 Remove debris from landward side see photo 2. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0249 however, unable to determine why crossing was marked "U". FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee 2 feet below the top of levee. Siphon breaker on landside (LS) shoulder. Corrugated metal pipe (CMP) riser located on LS connects with concrete V-ditch. Dual slant pumps and gate valves on the bank approximately 215 feet from waterside (WS) toe. Pumps feed into single 18-inch steel pipe. 2-inch electric conduit buried in the same trench as irrigation pipe. (Permit No. 6263-1968, C. Tuttle) FS Date: 5/4/2016 2:34:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47573\_70167.jpg



Overview of levee crown looking downstream at crossing.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	5.77	Rating **	M	Issue No.	669 (cont)	
LM End	5.77	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.272829 °	39.272829 °	
				-122.023282 °	-122.023282 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47573 DS_ID:16418 EP_NO: 6263 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Pressure gauge and valve were added to pipe near the siphon breaker on LS shoulder.4/20/2015 Modifications are being made to pipe near the LS shoulder. Not sure what all exactly is being done.6/23/2014 Same as last inspection. 12/17/2013 Same as last inspection.7/18/2013 Debris cleared from in front of LS standpipe.10/19/2012 Remove debris from landward side see photo 2. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0249 however, unable to determine why crossing was marked "U". FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee 2 feet below the top of levee. Siphon breaker on landside (LS) shoulder. Corrugated metal pipe (CMP) riser located on LS connects with concrete V-ditch. Dual slant pumps and gate valves on the bank approximately 215 feet from waterside (WS) toe. Pumps feed into single 18-inch steel pipe. 2-inch electric conduit buried in the same trench as irrigation pipe. (Permit No. 6263-1968, C. Tuttle) FS Date: 5/4/2016 2:34:00 PM						

Photo 2 of 2 : UCIP\_SP\_2016\_47573\_70166.jpg



CMP riser and concrete lined v-ditch located on LS toe.

LM Start	6.12	Rating **	M	Issue No.	75
LM End	6.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.277733 °	39.277733 °
				-122.022887 °	-122.022887 °
DWR ID	DWR_MA0001_01_f_2015_75				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_75\_20160316\_00018.jpg



View of the prunings along the landside toe.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	6.20	Rating **	M	Issue No.	76
LM End	6.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.278917 °	39.278917 °
				-122.022595 °	-122.022595 °
DWR ID	DWR_MA0001_01_s_2014_76				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_76\_20160316\_00019.jpg



View of the prunings along the landside toe.

LM Start	6.24	Rating **	U	Issue No.	670
LM End	6.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.279462 °	39.279462 °
				-122.022461 °	-122.022461 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47574 DS_ID:16446 EP_NO: 4203 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close.4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times.6/23/2014 Same as last inspection. There is no way to stop water from flowing though pipe during high water times.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0258 for 5 inch PVC pipe running through culvert. FIELD_STRUCT_DESC: 36-inch drainage pipe through the levee at approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on landside (LS). This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 331+31). FS Date: 5/4/2016 2:36:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47574\_70174.jpg



Overview of levee crown looking downstream at crossing.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	6.24	Rating **	U	Issue No.	670 (cont)	
LM End	6.24	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.279462 °	39.279462 °	
				-122.022461 °	-122.022461 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47574 DS_ID:16446 EP_NO: 4203 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close.4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times.6/23/2014 Same as last inspection. There is no way to stop water from flowing though pipe during high water times.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0258 for 5 inch PVC pipe running through culvert. FIELD_STRUCT_DESC: 36-inch drainage pipe through the levee at approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on landside (LS). This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 331+31). FS Date: 5/4/2016 2:36:00 PM						

Photo 2 of 2 : UCIP\_SP\_2016\_47574\_70176.jpg



CMP riser located on WS slope.

LM Start	6.37	Rating **	M	Issue No.	77
LM End	6.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.281364 °	39.281364 °
				-122.022038 °	-122.022038 °
DWR ID	DWR_MA0001_01_s_2014_77				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_77\_20160316\_00020.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	6.40	Rating **	M	Issue No.	671
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.281721 °	39.281721 °
				-122.021894 °	-122.021894 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47575  
DS\_ID:16425  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible).  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 72-inch corrugated metal drainage (precast concrete) pipe through the levee at an unknown depth. Structure is blocked on waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 339+74)  
FS Date: 5/4/2016 2:38:00 PM

LM Start	<b>6.40</b>	Rating **	M	Issue No.	<b>671 (cont)</b>
LM End	<b>6.40</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47575\_70181.jpg



View of WS no structure features visible.

Photo 2 of 2 : UCIP\_SP\_2016\_47575\_70180.jpg



Overview of levee crown looking downstream at crossing.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	6.99	Rating **	M	Issue No.	668
LM End	6.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.290147 °	39.290147 °
				-122.021525 °	-122.021525 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47618  
DS\_ID:16427  
EP\_NO: 9482  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Abandoned pipe. Needs to be properly plugged if it never gets used.4/20/2015 Same as last inspection. Structure is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD\_STRUCT\_DESC: 1 of 2: \*ABANDONED\* 36-inch irrigation concrete pipe through the levee at approximately 18 feet below the crown. Wooden slide gates on waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete headwalls located on both WS and landside (LS). This entry could match the Drainage or Irrigation Structure referenced in the O&M manual (Station 370+90) (USACE-1955) This structure was retained under an automatic board order (ABO) issued as Permit No. 9482. (Permit No. 9482 -1974, Elizabeth M. Farnsworth)  
FS Date: 5/4/2016 2:39:00 PM

LM Start	<b>6.99</b>	Rating **	M	Issue No.	<b>668 (cont)</b>
LM End	<b>6.99</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47618\_70188.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47618\_70187.jpg



WS-walkway and concrete headwall.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	6.99	Rating **	M	Issue No.	672
LM End	6.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.290169 °	39.290169 °
				-122.021532 °	-122.021532 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47577  
DS\_ID:17570  
EP\_NO: 9482  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 WS slide gate was unburied and opened allowing water to flow through to LS fields. 4/20/2015 Structure is operational. WS slide gate was unburied allowing water to irrigate the fields. It gets reburied during highwater season. 6/23/2014 Same as last inspection. Soil dug out again and water flowing through crossing. 12/17/2013 WS screw gate was closed and buried by soil again. 7/18/2013 WS screw gate has been cleared of dirt and is open to irrigate LS fields. LS outlet is still mostly blocked by sediment. 10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD\_STRUCT\_DESC: 2 of 2: 36-inch irrigation concrete pipe through the levee at approximately 18 feet below the crown. Wooden slide gates on waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete structure located on both WS and landside (LS). This entry could match the Drainage or Irrigation Structure referenced in the O&M manual (Station 370+90) (USACE-1955). Structure was retained under an automatic board order (ABO) issued as Permit No. 9482 (Permit No. 9482-1974, Elizabeth M. Farnsworth) 2016 Inspector noticed crossing is used in the spring and summer, and buried in the winter.  
FS Date: 5/4/2016 2:40:00 PM

LM Start	<b>6.99</b>	Rating **	M	Issue No.	<b>672 (cont)</b>
LM End	<b>6.99</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47577\_70194.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47577\_70193.jpg



WS-walkway and concrete headwall.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	7.20	Rating **	U	Issue No.	82
LM End	7.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.293151 °	39.294042 °
				-122.021356 °	-122.021449 °
DWR ID	DWR_MA0001_01_s_2016_82				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

LM Start	7.27	Rating **	M	Issue No.	651
LM End	7.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294074 °	39.294074 °
				-122.021435 °	-122.021435 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47507 DS_ID:16456 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Second slide gate was help open to allow water to flow through to the LS ditch.4/20/2015 Same as last inspection. Rebar pin was still inplace holding the gate opened.Sediment and debris on waterward and landward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0293 for wooden slide gate held open by a piece of rebar acting as a pin.7/18/2013 Same as last inspection.12/17/2013 Same as last inspection.6/23/2014 Same as last inspection. FIELD_STRUCT_DESC: 5 foot by 6 foot concrete box culvert through the levee and access ramp. Two wooden slide gates on waterside (WS) end. Concrete v-ditch along landside (LS) toe. This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 385+33.5). FS Date: 5/4/2016 2:45:40 PM					

No Photos

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	7.27	Rating **	M	Issue No.	673
LM End	7.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294074 °	39.294074 °
				-122.021435 °	-122.021435 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47578  
DS\_ID:16456  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Second slide gate was held open to allow water to flow through to the LS ditch.4/20/2015 Same as last inspection. Rebar pin was still in place holding the gate opened.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Sediment and debris on waterward and landward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0293 for wooden slide gate held open by a piece of rebar acting as a pin.  
FIELD\_STRUCT\_DESC: 5 foot by 6 foot concrete box irrigation culvert through the levee and access ramp at approximately 12-15 feet below the crown. Two wooden slide gates on waterside (WS) end. Concrete v-ditch along landside (LS) toe. This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 385+33.5).  
FS Date: 5/4/2016 2:45:00 PM

LM Start	<b>7.27</b>	Rating **	M	Issue No.	<b>673 (cont)</b>
LM End	<b>7.27</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47578\_70202.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47578\_70204.jpg



Overview of levee crown looking upstream at crossing.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	7.51	Rating **	A/W	Issue No.	24
LM End	7.80	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.297533 °	39.297420 °
				-122.021779 °	-122.027010 °
DWR ID	DWR_MA0001_01_s_2012_24				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

LM Start	7.58	Rating **	M	Issue No.	674
LM End	7.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.297384 °	39.297384 °
				-122.022989 °	-122.022989 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47579 DS_ID:16455 EP_NO: 12334 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 No LS inlet found4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Siphon breaker housing unit is bent and has debris inside. LS outlet not found. FIELD_STRUCT_DESC: 10-inch irrigation steel pipe through levee, 3 feet below the crown. Centrifugal pump on the waterside (WS) bank. Siphon breaker on landside (LS) shoulder of the levee. (Permit No. 12334-1978, Jean James) FS Date: 5/4/2016 2:47:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47579\_70209.jpg



View of WS-no features on levee shoulder or slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	7.58	Rating **	M	Issue No.	674 (cont)	
LM End	7.58	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.297384 °		39.297384 °
				-122.022989 °		-122.022989 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47579 DS_ID:16455 EP_NO: 12334 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 No LS inlet found4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Siphon breaker housing unit is bent and has debris inside. LS outlet not found. FIELD_STRUCT_DESC: 10-inch irrigation steel pipe through levee, 3 feet below the crown. Centrifugal pump on the waterside (WS) bank. Siphon breaker on landside (LS) shoulder of the levee. (Permit No. 12334-1978, Jean James) FS Date: 5/4/2016 2:47:00 PM						

Photo 2 of 2 : UCIP\_SP\_2016\_47579\_70210.jpg



Pump located on WS bank.

LM Start	7.70	Rating **	M	Issue No.	52
LM End	7.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.297303 °	39.297303 °
				-122.025257 °	-122.025257 °
DWR ID	DWR_MA0001_01_s_2012_52				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	8.73	Rating **	M	Issue No.	25
LM End	9.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.308390°	39.315125°
				-122.031157°	-122.030206°
DWR ID	DWR_MA0001_01_s_2012_25				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_25\_20160316\_00011.jpg



View of the ag. ditch along the L/S toe.

LM Start	8.92	Rating **	M	Issue No.	675
LM End	8.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.311103°	39.311103°
				-122.030541°	-122.030541°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47580 DS_ID:16454 EP_NO: 9466 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Crossing appears to be abandoned. Power lines cut from the panels inside the concrete structure on LS.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 No access to inspect slide gate on LS. Roof of pumping house deteriorating and debris scattered on LS. WS crossing not found. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_345 no issues recorded. FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel pipe through the levee at approximately 8-10 feet below the crown. Slide gate in concrete riser on the landside (LS) slope. Pump house encroaches into the LS slope. Two service poles on the LS shoulder. No visible appurtenances found on waterside (WS) toe. Power source cut on LS. Structure was retained under an automatic board order (ABO) issued as Permit No. 9466. (Permit No. 9466-1974, Roman Catholic Bishop of Sacramento) FS Date: 5/4/2016 2:51:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47580\_70219.jpg



Overview of levee crown looking downstream at crossing.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	8.92	Rating **	M	Issue No.	675 (cont)	
LM End	8.92	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.311103 °		39.311103 °
				-122.030541 °		-122.030541 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47580 DS_ID:16454 EP_NO: 9466 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Crossing appears to be abandoned. Power lines cut from the panels inside the concrete structure on LS.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 No access to inspect slide gate on LS. Roof of pumping house deteriorating and debris scattered on LS. WS crossing not found. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_345 no issues recorded. FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel pipe through the levee at approximately 8-10 feet below the crown. Slide gate in concrete riser on the landside (LS) slope. Pump house encroaches into the LS slope. Two service poles on the LS shoulder. No visible appurtenances found on waterside (WS) toe. Power source cut on LS. Structure was retained under an automatic board order (ABO) issued as Permit No. 9466. (Permit No. 9466-1974, Roman Catholic Bishop of Sacramento) FS Date: 5/4/2016 2:51:00 PM						

Photo 2 of 2 : UCIP\_SP\_2016\_47580\_70217.jpg



Overview of levee crown looking upstream at crossing.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	10.09	Rating **	M	Issue No.	646
LM End	10.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.328121 °	39.328121 °
				-122.029262 °	-122.029262 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47612 DS_ID:17655 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/25/2016 Unable to locate.4/20/2015 Unable to locate.6/23/2014 Unable to locate.12/17/2013 Unable to locate.7/18/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 36-inch drain corrugated metal pipe through the levee at an unknown depth. Slide gate on the outlet end of the pipe. This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 538+42). (USACE, 1955) FS Date: 5/4/2016 2:55:00 PM					

No Photos

LM Start	10.09	Rating **	M	Issue No.	647
LM End	10.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.328121 °	39.328121 °
				-122.029262 °	-122.029262 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47613 DS_ID:17656 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/25/2016 Unable to locate.4/20/2015 Unable to locate.6/23/2014 Unable to locate.7/18/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch drainage steel pipe through the levee at an unknown depth. Automatic drainage gate on the outlet end of the pipe. This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 538+42). (USACE, 1955) FS Date: 5/4/2016 2:56:00 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	10.13	Rating **	M	Issue No.	18
LM End	10.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.328697 °	39.328697 °
				-122.029262 °	-122.029262 °
DWR ID	DWR_MA0001_01_s_2012_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion site.					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_18\_20160316\_00009.jpg



View of the erosion along the waterside of the levee.

LM Start	10.21	Rating **	U	Issue No.	648
LM End	10.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.329749 °	39.329749 °
				-122.029602 °	-122.029602 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47614 DS_ID:16453 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Erosion still present by the WS pipes.4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Landward side has been completely altered. Need to find permit for new work. FIELD_STRUCT_DESC: 24-inch steel pipe through levee at approximately 15-20 feet below the crown. Gate valve on the waterside (WS) end. Dual 14-inch line visible on landside (LS). (USACE, 1955) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (538+42). FS Date: 5/4/2016 2:56:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47614\_70246.jpg



Overview of levee crown looking upstream at multiple crossings.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	10.21	Rating **	U	Issue No.	648 (cont)	
LM End	10.21	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.329749 °	39.329749 °	
				-122.029602 °	-122.029602 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47614 DS_ID:16453 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Erosion still present by the WS pipes.4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Landward side has been completely altered. Need to find permit for new work. FIELD_STRUCT_DESC: 24-inch steel pipe through levee at approximately 15-20 feet below the crown. Gate valve on the waterside (WS) end. Dual 14-inch line visible on landside (LS). (USACE, 1955) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (538+42). FS Date: 5/4/2016 2:56:00 PM						

Photo 2 of 2 : UCIP\_SP\_2016\_47614\_70245.jpg



Dual 14-inch pipes along catwalk. 24-inch pipe crosses approximately 8 feet below catwalk floor.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	10.21	Rating **	U	Issue No.	649
LM End	10.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.329750 °	39.329750 °
				-122.029602 °	-122.029602 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47615  
DS\_ID:16452  
EP\_NO: 1800  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Erosion still present by the WS pipes.4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0371 unable to determine why this crossing was assigned "U".  
FIELD\_STRUCT\_DESC: 1 of 2: 14-inch steel pipes through levee at approximately 3-4 feet below the crown. Siphon breakers on the waterside (WS) end. (Permit No. 1800-1959, Jimeno Rancho) New pipe visible on landside (LS).  
FS Date: 5/4/2016 2:57:00 PM

LM Start	<b>10.21</b>	Rating **	U	Issue No.	<b>649 (cont)</b>
LM End	<b>10.21</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47615\_70236.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47615\_70235.jpg



View of 2-14 inch crossings through levee on WS.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	10.21	Rating **	U	Issue No.	650
LM End	10.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.329750 °	39.329750 °
				-122.029602 °	-122.029602 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47616 DS_ID:17571 EP_NO: 1800 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Erosion still present near the WS pipes.4/20/2015 Erosion happening on WS shoulder near where pipes enter the levee. May just be from rain runoff.6/23/2014 Same as last inspection.10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U".12/17/2013 Same as last inspection.7/18/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel pipe through levee at approximately 3-4 feet below the crown. Siphon breaker located on the waterside (WS) end. (Permit No. 1800-1959, Jimeno Rancho) FS Date: 5/4/2016 2:58:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47616\_70228.jpg



Overview of levee crown looking upstream at crossing.

LM Start	10.21	Rating **	U	Issue No.	650 (cont)
LM End	10.21	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_47616\_70227.jpg



View of WS looking at crossing.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	10.32	Rating **	M	Issue No.	636
LM End	10.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.331320 °	39.331320 °
				-122.029932 °	-122.029932 °
DWR ID	DWR_MA0001_01_f_2014_636				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_636\_20160316\_00023.jpg



View of the pruning along the landside toe.

LM Start	10.78	Rating **	A/W	Issue No.	637
LM End	10.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.337523 °	39.337523 °
				-122.032437 °	-122.032437 °
DWR ID	DWR_MA0001_01_f_2014_637				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_637\_20160316\_00024.jpg



View of the pruning along the landside toe.

LM Start	10.96	Rating **	M	Issue No.	638
LM End	10.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.340217 °	39.340217 °
				-122.032605 °	-122.032605 °
DWR ID	DWR_MA0001_01_f_2014_638				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_638\_20160316\_00025.jpg



View of the pruning along the landside toe.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

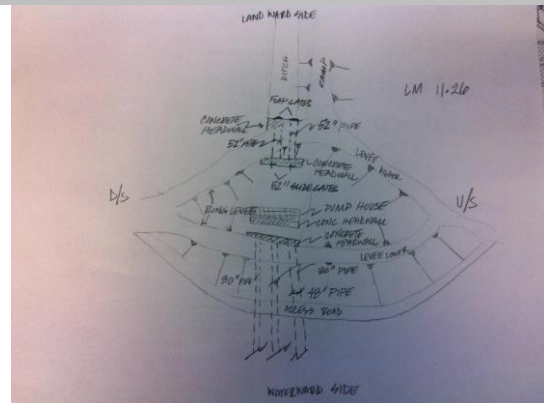
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.01	Rating **	M	Issue No.	12
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.340774 °	39.340774 °
				-122.032872 °	-122.032872 °
DWR ID	DWR_MA0001_01_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.01	Rating **	M	Issue No.	676
LM End	11.01	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.340867 °	39.340867 °
				-122.032932 °	-122.032932 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47585 DS_ID:16449 EP_NO: 187 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Crossing appears to be abandoned.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0393 missing gate. FIELD_STRUCT_DESC: 1 of 2: 52-inch irrigation corrugated metal pipe (CMP), 48-inch measured, through levee at approximately 15 feet below the levee crown. Slide gate on waterside (WS) and flap gate on landside (LS). Concrete headwalls at both sides. This structure is associated with another abandoned structure located on WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (2-30 inch pipes and 1-48 inch pipe). (Permit No. 187-1921, Compton-Delevan Irrigation District-Maxwell I.D.) New pump and platform installed and old pump house removed under Permit No. 9183. (Permit No. 9183-1973, Maxwell Irrigation District) FS Date: 5/5/2016 7:21:00 AM					

Photo 1 of 2 : UCIP\_SP\_2016\_47585\_70267.jpg



Sketch of structure located at levee mile 11.26.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.01	Rating **	M	Issue No.	676 (cont)	
LM End	11.01	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.340867 °	39.340867 °	
				-122.032932 °	-122.032932 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47585 DS_ID:16449 EP_NO: 187 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Crossing appears to be abandoned.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0393 missing gate. FIELD_STRUCT_DESC: 1 of 2: 52-inch irrigation corrugated metal pipe (CMP), 48-inch measured, through levee at approximately 15 feet below the levee crown. Slide gate on waterside (WS) and flap gate on landside (LS). Concrete headwalls at both sides. This structure is associated with another abandoned structure located on WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (2-30 inch pipes and 1-48 inch pipe). (Permit No. 187-1921, Compton-Delevan Irrigation District-Maxwell I.D.) New pump and platform installed and old pump house removed under Permit No. 9183. (Permit No. 9183-1973, Maxwell Irrigation District) FS Date: 5/5/2016 7:21:00 AM						

Photo 2 of 2 : UCIP\_SP\_2016\_47585\_70265.jpg



View of abandoned structure located on WS (inside ring levee).

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.02	Rating **	U	Issue No.	677
LM End	11.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.340971 °	39.340971 °
				-122.032957 °	-122.032957 °
DWR ID					

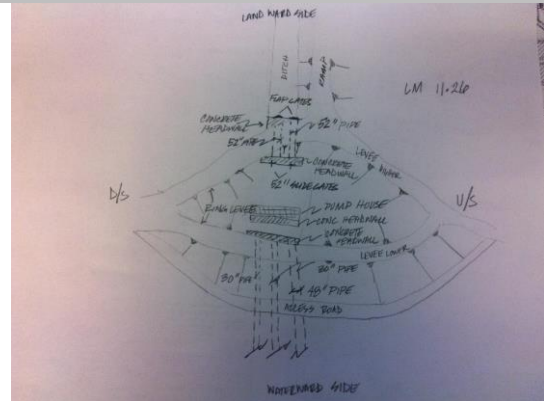
**Comment Code**

**Inspector Comment**

FS\_ID:47586  
DS\_ID:17572  
EP\_NO: 187  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Crossing appears to be abandoned. Slide gate needs to be replaced or pipe needs to be plugged to prevent water flow during high water season. 4/21/2015 Same as last inspection. 6/23/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/18/2013 Same as last inspection. 10/30/2012 Missing positive closure device. Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be abandoned properly. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0393 missing gate. FIELD\_STRUCT\_DESC: 2 of 2: 52-inch irrigation corrugated metal pipe (CMP), 48-inch measured, through levee at approximately 15 feet below the crown. Slide gate on waterside (WS) and flap gate on landside (LS). Concrete headwalls at both sides. This structure is associated with another abandoned structure located on WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (2-30 inch pipes and 1-48 inch pipe). (Permit No. 187-1921, Compton-Delevan Irrigation District-Maxwell I.D.) New pump and platform installed and old pump house removed under Permit No. 9183. (Permit No. 9183-1973, Maxwell Irrigation District)  
FS Date: 5/5/2016 7:22:00 AM

LM Start	<b>11.02</b>	Rating **	U	Issue No.	<b>677 (cont)</b>
LM End	<b>11.02</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47586\_70272.jpg



Sketch of structure through levee ring located at levee mile 11.26.

Photo 2 of 2 : UCIP\_SP\_2016\_47586\_70276.jpg



Abandoned structure (multiple headwalls and pump structure) located near the lower levee (ring levee).

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.19	Rating **	U	Issue No.	678
LM End	11.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.343263 °	39.343263 °
				-122.032152 °	-122.032152 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47588  
DS\_ID:17691  
EP\_NO: 17471  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Sink hole between the standpipes seems to be getting worse. Measurements of the hole are 3' wide x 3' long x 3' deep. The pipe was flowing water and there was water present in the bottom of the sink hole.4/21/2015 Sink hole still present between risers.6/23/2014 Standing water was present in the bottom of the sinkhole.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Erosion between risers with slide gates located on waterward side; This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0398 for possible sinkhole between access gate structures.  
FIELD\_STRUCT\_DESC: 1 of 2: 24 inch diameter high-density polyethylene (HDPE) discharge pipe to be connected to the existing corrugated metal pipe (CMP) riser within the waterside (WS) and parallel to the right (west) bank levee of Sacramento River. (Permit 17471-2002, Maxwell Irrigation District)  
FS Date: 5/5/2016 1:52:00 PM

LM Start	<b>11.19</b>	Rating **	U	Issue No.	<b>678 (cont)</b>
LM End	<b>11.19</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47588\_70327.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47588\_70326.jpg



View of concrete distribution box located on LS toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.19	Rating **	U	Issue No.	679
LM End	11.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.343283 °	39.343283 °
				-122.032145 °	-122.032145 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47589 DS_ID:17624 EP_NO: 17471 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Sink hole between risers was getting worse (3' wide x 3' long x 3' deep). New smaller sink hole is appearing on the upstream side of this stand pipe (4.5" wide x 20" deep)4/21/2015 Sink hole still present between risers.6/23/2014 Standing water was present in the bottom of the sinkhole.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Erosion between risers with slide gates located on waterward side; This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible sinkhole between access gate structures. FIELD_STRUCT_DESC: 2 of 2: 18-inch irrigation diameter high-density polyethylene (HDPE) discharge pipe to be connected to the existing corrugated metal pipe (CMP) riser within the waterside (WS) and parallel to the right (west) bank levee of Sacramento River. Pump station is located approximately 450 feet upstream of crossing. (Permit 17471-2002, Maxwell Irrigation District) FS Date: 5/5/2016 1:56:00 PM					

LM Start	11.19	Rating **	U	Issue No.	679 (cont)
LM End	11.19	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47589\_70325.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47589\_70324.jpg



View of concrete distribution box located on LS toe.

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



## Sutter Maintenance Yard Maintenance Area 0001



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.27	Rating **	M	Issue No.	683 (cont)	
LM End	11.27	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.344376 °	39.344376 °	
				-122.031792 °	-122.031792 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:48135 DS_ID:20582 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine encroachment permit associated with this crossing. FIELD_STRUCT_DESC: [Maxwell Irrigation District] 1 of 3: 24 inch steel drainage pipe through levee, at an unknown depth. Crossing is tied to existing Maxwell Irrigation District Pump Station located on waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/5/2016 2:09:00 PM						

Photo 2 of 2 : UCIP\_SP\_2016\_48135\_70333.jpg



Overview of levee crown looking downstream at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.27	Rating **	M	Issue No.	680
LM End	11.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.344390 °	39.344390 °
				-122.031787 °	-122.031787 °
DWR ID					

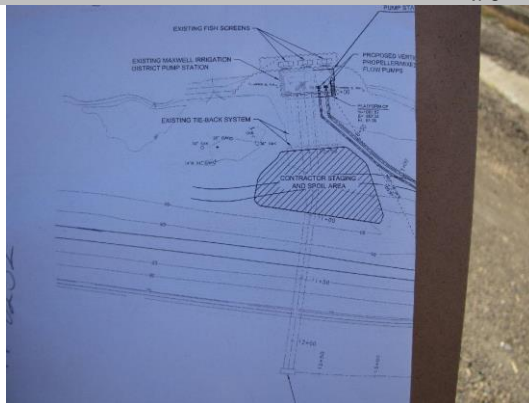
**Comment Code**

**Inspector Comment**

FS\_ID:47594  
DS\_ID:20583  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Crossing appears to be in good condition. 4/21/2015 Same as last inspection. Need to determine encroachment permit for this crossing. 7/22/2013 Same as last inspection. 12/17/2013 Same as last inspection. 6/23/2014 Same as last inspection.  
FIELD\_STRUCT\_DESC: 2 of 3: [Maxwell Irrigation District Pump] 24-inch discharge pipe through levee at an unknown depth. Crossing is tied to existing Maxwell Irrigation District Pump Station located on waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on landside (LS) shoulder.  
FS Date: 5/5/2016 2:10:00 PM

LM Start	<b>11.27</b>	Rating **	M	Issue No.	<b>680 (cont)</b>
LM End	<b>11.27</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47594\_70337.jpg



Drawing of existing Maxwell Irrigation District Conveyance Pipeline (DWG available through Permit No. 17471 for work located at LM 11.51).

Photo 2 of 2 : UCIP\_SP\_2016\_47594\_70338.jpg



Pump Station located on WS.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.27	Rating **	M	Issue No.	681
LM End	11.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.344400 °	39.344400 °
				-122.031785 °	-122.031785 °
DWR ID					

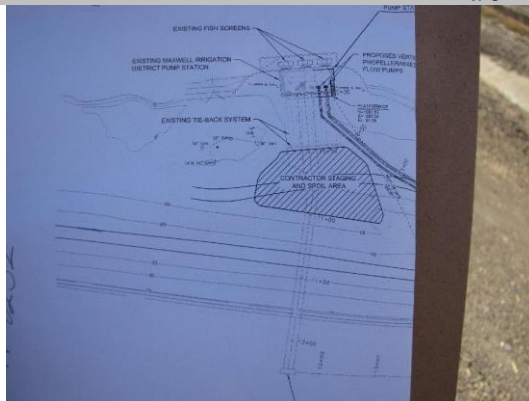
**Comment Code**

**Inspector Comment**

FS\_ID:47595  
DS\_ID:20584  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine encroachment permit for this crossing.  
FIELD\_STRUCT\_DESC: 3 of 3: [Maxwell Irrigation District] 24-inch discharge pipe through levee at an unknown depth. Crossing is tied to existing Maxwell Irrigation District Pump Station located on waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on landside (LS) shoulder.  
FS Date: 5/5/2016 2:10:00 PM

LM Start	<b>11.27</b>	Rating **	M	Issue No.	<b>681 (cont)</b>
LM End	<b>11.27</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_47595\_70342.jpg



Drawing of existing Maxwell Irrigation District Conveyance Pipeline (DWG available through Permit No. 17471 for work located at LM 11.51).

Photo 2 of 2 : UCIP\_SP\_2016\_47595\_70343.jpg



Maxwell Irrigation District Pump Station located on WS.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.53	Rating **	A/W	Issue No.	83
LM End	11.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.348151 °	39.348151 °
				-122.031260 °	-122.031260 °
DWR ID	DWR_MA0001_01_s _ 2016_83				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	11.73	Rating **	M	Issue No.	84
LM End	11.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.350964 °	39.350964 °
				-122.030535 °	-122.030535 °
DWR ID	DWR_MA0001_01_s _ 2016_84				
Comment Code					
DE : Debris					
Inspector Comment					
concrete debris.					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_84\_20160405\_00145.jpg



Concrete debris pile at toe

LM Start	11.74	Rating **	A/W	Issue No.	23
LM End	11.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.351155 °	39.351832 °
				-122.030443 °	-122.030295 °
DWR ID	DWR_MA0001_01_s _ 2012_23				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	12.06	Rating **	M	Issue No.	639
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.355516 °	39.355516 °
				-122.028700 °	-122.028700 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47596 DS_ID:16457 EP_NO: 13449 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/25/2016 Unable to locate any markers for this crossing.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 According to PG&E, their records indicate that pipe segment has been retired per dwgs. PG&E is finding additional information to confirm if crossing has been retired and method of retirement. Waiting for clarification from PG&E.11/2012 Buried line. No markers found; Need to contact PG&E to determine if crossing is still present. FIELD_STRUCT_DESC: *ABANDONED* 4-inch gas pipeline through levee, 30-inches below crown. PG&E crossing is known as reference no. 167-6-13. (Permit No. 13449-1983, PG&E) Emergency contact Mr. Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Coordinates are approximate--crossing is abandoned. FS Date: 5/5/2016 2:12:00 PM					

No Photos

LM Start	12.06	Rating **	M	Issue No.	4
LM End	13.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.355607 °	39.362600 °
				-122.028707 °	-122.014497 °
DWR ID	DWR_MA0001_01_s_2012_4				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	12.27	Rating **	A/W	Issue No.	78
LM End	12.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.357497 °	39.357497 °
				-122.026093 °	-122.026093 °
DWR ID	DWR_MA0001_01_f_2015_78				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_78\_20160316\_00021.jpg



View of the rodent holes along the waterside slope.

LM Start	12.49	Rating **	A/W	Issue No.	79
LM End	12.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.359500 °	39.359500 °
				-122.022980 °	-122.022980 °
DWR ID	DWR_MA0001_01_f_2015_79				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_79\_20160316\_00022.jpg



View of the rodent holes 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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	12.69	Rating **	M	Issue No.	640
LM End	12.69	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359843 °	39.359843 °
				-122.019529 °	-122.019529 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47598  
DS\_ID:16445  
EP\_NO: 9462  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Appears to be an abandoned crossing. WS slide gate still buried and inoperable. 4/21/2015 Same as last inspection. 6/23/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/22/2013 Same as last inspection. 10/30/2012 Slide gate unoperable--blocked by sediment. LS-flap gate missing. 5-inch pipe goes through 24-inch crossing--unable to determine is authorized. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0435 for smaller pipe running inside existing crossing.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal pipe (CMP) through levee at approximately 10 feet below the crown. Slide gate on both waterside (WS) and landside (LS). Gate missing on LS. Structure was retained under an automatic board order (ABO) issued as Permit No. 9462. (Permit No. 9462-1974, Thousand Acre Ranch)  
FS Date: 5/5/2016 2:14:00 PM

LM Start	12.69	Rating **	M	Issue No.	640 (cont)
LM End	12.69	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47598\_70352.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47598\_70351.jpg



WS concrete structure with slide gate. Gate is blocked by sediment.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	13.47	Rating **	M	Issue No.	641
LM End	13.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.367643 °	39.367643 °
				-122.015212 °	-122.015212 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47603  
DS\_ID:16443  
EP\_NO: 9461  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 Slide gate in WS box visually appears to be closed as its stem is all the way down. Still cannot look into box to confirm 100% though.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Unable to close positive closure device due to missing ladder-slucse gate inaccessible. Need to determine the condition of the gate. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0453 for an inaccessible gate box with its ladder broken on the waterward side.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal pipe through levee, 21.5 feet below crown. Slide gate in concrete box on waterward end. Pump on the bank. Tall concrete box located on landside (LS) Structure was retained under an automatic board order (ABO) issued as Permit No. 9461. (Permit No. 9461-1974, Annie D. Propfe) This entry matches the Drainage and Irrigation Structure referenced in O&M manual (Station 710+82).  
FS Date: 5/5/2016 2:22:00 PM

LM Start	<b>13.47</b>	Rating **	M	Issue No.	<b>641 (cont)</b>
LM End	<b>13.47</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47603\_70377.jpg



View of LS looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47603\_70376.jpg



View of WS at crossing.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	13.79	Rating **	M	Issue No.	642
LM End	13.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.371934 °	39.371934 °
				-122.012945 °	-122.012945 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47605 DS_ID:16442 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 Abandoned crossing4/21/2015 Slide gate is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Slide gate is buried-non-fuctional. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0457 for buried slide gate. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal pipe through levee at approximately 15-18 feet below the crown. Slide gate on waterside (WS) end. (Davis Ranches) FS Date: 5/5/2016 2:25:00 PM					

LM Start	13.79	Rating **	M	Issue No.	642 (cont)
LM End	13.79	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47605\_70379.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47605\_70380.jpg



WS-Slide gate buried-non-functional.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	14.28	Rating **	M	Issue No.	643
LM End	14.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.378568 °	39.378568 °
				-122.013262 °	-122.013262 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47607  
DS\_ID:16441  
EP\_NO: 9460  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/25/2016 WS concrete box appears to be abandoned. LS box appears to get filled by a well pump on LS.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine if crossing is still being used there are some abandoned features that remain at this crossing-- crossing has been modified. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0464 for abandoned pump station.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 18-inch steel pipe through levee. Gate valve on the waterward end. Pump house on the waterside (WS) berm. Concrete distribution box and flap gate at the landside (LS) toe. Structure was retained under an automatic board order (ABO) issued as Permit No. 9460. (Permit No. 9460-1974, Morici Corporation) 2016 Inspector noted that this structure appears to be partially abandoned concrete box appears to be in use. LS box appears to get filled by a well pump located on LS and water distributed.  
FS Date: 5/5/2016 2:27:00 PM

LM Start	<b>14.28</b>	Rating **	M	Issue No.	<b>643 (cont)</b>
LM End	<b>14.28</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47607\_70383.jpg



View of levee crown looking downstream at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47607\_70382.jpg



Concrete distribution box located on LS toe.

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	15.79	Rating **	U	Issue No.	85
LM End	15.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.399929 °	39.399929 °
				-122.010028 °	-122.010028 °
DWR ID	DWR_MA0001_01_s _ 2016_85				
Comment Code					
DE : Debris					
Inspector Comment					
prunings, concrete and tires.					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_85\_20160405\_00146.jpg



Prunings, concrete and tires at toe

LM Start	15.84	Rating **	U	Issue No.	86
LM End	15.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.400601 °	39.401365 °
				-122.009889 °	-122.009374 °
DWR ID	DWR_MA0001_01_s _ 2016_86				
Comment Code					
BU : Building					
Inspector Comment					
mobile homes, trailers.					

No Photos

LM Start	15.95	Rating **	U	Issue No.	87
LM End	15.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.401994 °	39.401994 °
				-122.009352 °	-122.009352 °
DWR ID	DWR_MA0001_01_s _ 2016_87				
Comment Code					
BU : Building					
Inspector Comment					
white shed					

No Photos

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







**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	16.06	Rating **	U	Issue No.	91
LM End	16.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.403565 °	39.403565 °
				-122.009039 °	-122.009039 °
DWR ID	DWR_MA0001_01_s _ 2016_91				
Comment Code					
BU : Building					
Inspector Comment					
long, white metal building with several AC units					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_91\_20160405\_00150.jpg



Building obstructung access

LM Start	16.08	Rating **	U	Issue No.	14
LM End	16.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.403930 °	39.403930 °
				-122.008925 °	-122.008925 °
DWR ID	DWR_MA0001_01_s _ 2012_14				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_14\_20160316\_00008.jpg



View of the building on the waterside slope.

LM Start	16.10	Rating **	U	Issue No.	26
LM End	16.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.404135 °	39.404135 °
				-122.008797 °	-122.008797 °
DWR ID	DWR_MA0001_01_s _ 2012_26				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_26\_20160316\_00012.jpg



View of the building on the landside slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	16.10	Rating **	M	Issue No.	74
LM End	16.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.404255 °	39.404255 °
				-122.008842 °	-122.008842 °
DWR ID	DWR_MA0001_01_s _ 2015_74				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Remove the landscape from the landside slope and toe.					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_74\_20160316\_00017.jpg



View of the landscape along the landside slope and toe.

LM Start	16.30	Rating **	M	Issue No.	15
LM End	16.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.407066 °	39.407363 °
				-122.008730 °	-122.008780 °
DWR ID	DWR_MA0001_01_s _ 2012_15				
Comment Code					
BU : Building					
Inspector Comment					

No Photos

LM Start	16.31	Rating **	U	Issue No.	46
LM End	16.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.407225 °	39.407545 °
				-122.008570 °	-122.008640 °
DWR ID	DWR_MA0001_01_s _ 2012_46				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_46\_20160316\_00014.jpg



View of the building along the landside toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	16.34	Rating **	U	Issue No.	47
LM End	16.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.407670 °	39.407823 °
				-122.008685 °	-122.008740 °
DWR ID	DWR_MA0001_01_s_2012_47				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0001\_297\_47\_20160316\_00015.jpg



View of the fence along the landside toe.

LM Start	16.35	Rating **	M	Issue No.	9
LM End	16.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.407837 °	39.411111 °
				-122.008763 °	-122.009238 °
DWR ID	DWR_MA0001_01_s_2016_9				
Comment Code					
Inspector Comment					
Erosion site added in 1997 and removed in 2005. 2009 - Site added back in, hard toe with slow moving erosion. Potential geotechnical failure. 2011 - Site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_164-3_R]					

Photo 1 of 2 : SP\_2016\_MA0001\_297\_9\_20160316\_00006.jpg



USACE 2013 Photo #1

LM Start	<b>16.35</b>	Rating **	M	Issue No.	<b>9 (cont)</b>
LM End	<b>16.58</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_MA0001\_297\_9\_20160316\_00007.jpg



USACE 2013 Photo #2

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

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	<b>16.49</b>	Rating **	M	Issue No.	<b>644</b>
LM End	<b>16.49</b>	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.409758 °	39.409758 °	
			-122.009562 °	-122.009562 °	
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:47610  DS_ID:16438  EP_NO: 2189  Repair Type: Non-Urgent  Crossing Status: Found  UCIP Comments: 4/25/2016 Abandoned pipes.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed. Also need to determine additional details--depth and alignment.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 Crossing is an active line. Waiting for additional information from PG&amp;E.11/2012 Buried line--no markers visible. Olivia (UCIP team) is coordinating with PG&amp;E to determine more info on crossing.  FIELD_STRUCT_DESC: 2-inch gas line along landward toe from 12-inch gas line at levee mile 16.85 to the Princeton Rice Dryer. 2-inch pipeline installed longitudinally on the levee parallel to HWY 45 in a northerly direction from the point where the 2-10-inch pipes were installed in the levee. (Permit No. 2189-1958, PG&amp;E) Emergency contact Mr. Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate.  FS Date: 5/5/2016 2:32:00 PM</p>					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	16.55	Rating **	M	Issue No.	645
LM End	16.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.410645 °	39.410645 °
				-122.009705 °	-122.009705 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47611 DS_ID:16448 EP_NO: 14424 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 WS marker sign is still knocked over.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed.  6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 Waiting for information regarding crossing from PG&E. Regarding damage warning sign--PG&E has initiated a project to replace pipeline crossing sign and utility markers, as required by DOT codes/regulations.11/2012 Utility warning sign damaged. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing. FIELD_STRUCT_DESC: 12-inch gas pipeline through levee, 30-inches below crown. This 12-inch replacement pipe was installed by horizontally directionally drilling under the State HWY. Crossing is cathodically protected against external corrosion. Line was bored with a minimum cover of 48 feet under the right bank levee, 60 feet under the right bank, 25 feet under the channel and 52 feet under the left bank. (Permit No. 14424-1988, PG&E) Emergency contact: Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. This pipe is under pressure and cathodic protection (CP) readings are taken on a regular schedule. FS Date: 5/5/2016 2:33:00 PM					

Photo 1 of 2 : UCIP\_SP\_2016\_47611\_70391.jpg



View just upstream of utility crossing.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	16.55	Rating **	M	Issue No.	645 (cont)
LM End	16.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.410645 °	39.410645 °
				-122.009705 °	-122.009705 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47611 DS_ID:16448 EP_NO: 14424 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/25/2016 WS marker sign is still knocked over.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed.  6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 Waiting for information regarding crossing from PG&E. Regarding damage warning sign--PG&E has initiated a project to replace pipeline crossing sign and utility markers, as required by DOT codes/regulations.11/2012 Utility warning sign damaged. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing. FIELD_STRUCT_DESC: 12-inch gas pipeline through levee, 30-inches below crown. This 12-inch replacement pipe was installed by horizontally directionally drilling under the State HWY. Crossing is cathodically protected against external corrosion. Line was bored with a minimum cover of 48 feet under the right bank levee, 60 feet under the right bank, 25 feet under the channel and 52 feet under the left bank. (Permit No. 14424-1988, PG&E) Emergency contact: Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. This pipe is under pressure and cathodic protection (CP) readings are taken on a regular schedule. FS Date: 5/5/2016 2:33:00 PM					

Photo 2 of 2 : UCIP\_SP\_2016\_47611\_70390.jpg



View of utility marker located on LS across hwy.

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