

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2015 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0012**

	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 2015 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Drain			Left	11.06
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2015 - 03/11/2015			
DWR Inspector	Bob Duffey			
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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	12	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	
					°	
DWR ID	DWR_MA0012_01_s _ 2013_12					
Action/Comments						
Inspector Comments: The LMA has adequate flood fight supplies and equipment.						

No Photos

LM Start		Rating **	A	Issue No.	13	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Operations & Maintenance Manuals				°	°
					°	°
DWR ID	DWR_MA0012_01_s _ 2013_13					
Action/Comments						
Inspector Comments: The LMA has the O&M manuals.						

No Photos

LM Start		Rating **	A	Issue No.	14	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	°
					°	°
DWR ID	DWR_MA0012_01_s _ 2013_14					
Action/Comments						
Inspector Comments: 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                      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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	0.24	Rating **	M	Issue No.	3
LM End	0.24	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.035889 °	39.035889 °
				-121.996882 °	-121.996882 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44933 DS_ID:17145 EP_NO: 9381 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/4/2015 Abandoned crossing need to verify proper abandonment of pipe 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through levee, 3.0 feet below crown. Open on waterward end 3-foot x 6-foot concrete well on waterward berm. Siphon breaker in 24-inch pipe riser on landward shoulder. 36-inch concrete standpipe on landward berm. (Permit No. 9381 - Tribble). Originally included in O+M Manual (1959). Asbuilt available 50-4-3081. (The only item identified is the 36-inch standpipe on the LS toe). FS Date: 05/05/2015					

No Photos

LM Start	0.50	Rating **	U	Issue No.	6
LM End	0.50	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.039413 °	39.039413 °
				-121.997766 °	-121.997766 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44939 DS_ID:17146 EP_NO: 9382 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. Pipe is partially filled with soil 7/16/2013 Sediment is built up against WS flapgate preventing it from opening 12/16/2013 Sediment against flapgate has been cleared and it can now function properly 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drain pipe through levee, 13.0 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on waterward side. Concrete headwall on landward side. (Permit No. 9382 Baber). Originally included in O+M manual (1959). Asbuilt available 50-4-3081. FS Date: 05/05/2015					

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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	1.73	Rating **	U	Issue No.	7
LM End	1.73	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.055711 °	39.055711 °
				-122.003252 °	-122.003252 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44945 DS_ID:17149 EP_NO: 9382 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is plugged by silt and wood chippings. Needs to be cleaned. Inlet on LS filled partially with soil. Outlet blocked with soil and the flap gate wont close. 7/16/2013 Same as last inspection. Make sure flapgate is closed before highwater season. 12/16/2013 Same as last inspection. WS flapgate still needs to be cleaned out and shut. 1/17/2014 Flap gate was cleaned out and is fully closed. LS inlet still partially full of soil. FIELD_STRUCT_DESC: 24-inch CM drain pipe through the levee, 13.0 feet below crown. Flap gate, concrete headwall and grouted cobble spillway on waterward side. Concrete headwall on landward side. (Permit No. 9382 Baber). Originally included in O+M manual (1959). FS Date: 05/05/2015					

No Photos

LM Start	1.81	Rating **	U	Issue No.	8
LM End	1.81	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.056847 °	39.056847 °
				-122.003288 °	-122.003288 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44954 DS_ID:17150 EP_NO: 9387 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 WS flapgate mostly underwater but could tell it was blocked open by something. LS inlet is located about 1/4 mile north along the side of the roadway. No inlet could be located on LS. Flap gate partially blocked and will not close completely. 7/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet. 12/16/2013 Pipe was flowing water and flap gate was being pushed open. Cannot verify if it will close all the way. 1/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 48-inch drain pipe through the levee 20.0 feet below crown. Slide gate in 60-inch pipe riser on waterward slope. Flap gate and concrete headwall on waterward side. (Permit No. 9387 - Christenson). Originally included in O+M manual (1959). FS Date: 05/05/2015					

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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	2.02	Rating **	U	Issue No.	9
LM End	2.02	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.059773 °	39.059773 °
				-122.004391 °	-122.004391 °

No Photos

Action/Comments					
Inspector Comments: FS_ID:44955 DS_ID:17151 EP_NO: 9391 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 LS and WS ends are blocked with soil. Pipe is inoperable as it inlet is partially filled with soil 7/16/2013 LS inlet is completely filled with soil. Needs to be cleaned out 2/16/2013 Same as last inspection 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drain pipe through levee, 13.0 feet below crown. Flap gate, concrete headwall and grouted cobble spillway on the waterward side. Concrete headwall on landward side. (Permit No. 9391 Christenson). Originally included in O+M manual (1959). FS Date: 05/05/2015					

LM Start	2.58	Rating **	M	Issue No.	1
LM End	3.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.067343 °	39.081684 °
				-122.009611 °	-122.016243 °

No Photos

Action/Comments					
Ditch					

<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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	3.78	Rating **	U	Issue No.	10
LM End	3.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.081949 °	39.081949 °
				-122.016179 °	-122.016179 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44963 DS_ID:17154 EP_NO: 9388 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry 12/16/2013 Water flowing through pipe so screw gate definately not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season 12/16/2013 Slide gate stem is still bent. WS flapgate was closed 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 48-inch CM pipe through the levee, 28.0 feet below the crown. Slide gate in 66-inch pipe riser on the waterward slope. Concrete headwall on the waterward side. Grouted cobble spillway from drain ditch to large canal on the landward side. (Permit No. 9388 Wallace) Originally included in the O+M manual (1959). FS Date: 05/05/2015					

LM Start	4.33	Rating **	M	Issue No.	15
LM End	4.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.089666 °	39.089666 °
				-122.015248 °	-122.015248 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44968 DS_ID:20717 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/4/2015 Corssing appears to be in good condition. No noticeable issues to report. No permit identified for this crossing 7/16/2013 Same as last inspection 12/16/2013 Pump has been removed for winter 6/17/2014 Same as last inspection. Pump reinstalled on pier. FIELD_STRUCT_DESC: 24-inch steel pipe though levee, 4.5 feet below crown. Pump in pump house on waterward bank. Siphon breaker valve installed on LS shoulder. FS Date: 05/05/2015					

* 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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	4.72	Rating **	M	Issue No.	22
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			39.096777 °	39.096777 °
				-122.015548 °	-122.015548 °
DWR ID	DWR_MA0012_01_f_2014_22				
Action/Comments					

Photo 1 of 1 : SP\_2015\_MA0012\_299\_22\_20150310\_00002.jpg



View of the gate that needs to be repaired.

LM Start	4.72	Rating **	M	Issue No.	4
LM End	4.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.096839 °	39.097455 °
				-122.015568 °	-122.015581 °
DWR ID	DWR_MA0012_01_s_2012_4				
Action/Comments					
Ditch					

No Photos

\* 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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	5.12	Rating **	U	Issue No.	16
LM End	5.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.100898 °	39.100898 °
				-122.016078 °	-122.016078 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44970 DS_ID:17191 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. 7/16/2013 Same as last inspection. 12/16/2013 Same as last inspection. 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 48-inch CM pipe approximately 15 feet below the crown. Concrete headwalls on both ends with an automatic drainage gate on the WS. FS Date: 05/05/2015					

LM Start	5.19	Rating **	A/W	Issue No.	206
LM End	5.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.103490 °	39.103490 °
				-122.016340 °	-122.016340 °

Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : SP\_2015\_MA0012\_299\_206\_20150310\_00003.jpg



View of the rodent holes on the landside 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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	6.12	Rating **	M	Issue No.	17
LM End	6.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114949 °	39.114949 °
				-122.017946 °	-122.017946 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44973 DS_ID:20715 EP_NO: 13699 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/4/2015 Corssing appears to be in good condition. No noticeable issues to report. Oil leakage around pump head 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 20-inch soilproofed steel Stormdrain pipe through levee, 4.4 feet below crown. Cobble revetted sump on waterward side. Siphon breaker in 24-inch metal pipe risers on waterward shoulder. Pump house at toe of landward slope. (Permit No. 13699, 1984). Replaced 18-inch pipe at same location. FS Date: 05/05/2015					

No Photos

LM Start	6.12	Rating **	M	Issue No.	18
LM End	6.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114963 °	39.114963 °
				-122.017947 °	-122.017947 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44974 DS_ID:20716 EP_NO: 13699 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/4/2015 Corssing appears to be in good condition. No noticeable issues to report. Oil leaks at pump head 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 20-inch soilproofed steel Stormdrain pipe through levee, 4.4 feet below crown. Cobble revetted sump on waterward side. Siphon breaker in 24-inch metal pipe risers on waterward shoulder. Pump house at toe of landward slope. (Permit No. 13699, 1984). Replaced 18-inch pipe at same location. FS Date: 05/05/2015					

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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	6.12	Rating **	M	Issue No.	19
LM End	6.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114977 °	39.114977 °
				-122.017947 °	-122.017947 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44977 DS_ID:17199 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/4/2015 Corssing appears to be in good condition. No noticeable issues to report. Minor oil leak on pump 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 3 of 3: 18-inch pipe through levee, 4.4 feet below crown. Cobble revetted sump on waterward side. Siphon breaker in 16-inch metal pipe risers on waterward shoulder. Pump house at toe of landward slope. (Permit No. 9390 - Profpe) Originally included in O+M manual (1959). FS Date: 05/05/2015					

LM Start	6.62	Rating **	M	Issue No.	23
LM End	7.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.123283 °	39.127985 °
				-122.022738 °	-122.022767 °
DWR ID	DWR_MA0012_01_s _ 2015_23				
Action/Comments					
Repair depressions or ruts in the crown or slope.					
Inspector Comments: The crown roadway needs additional gravel.					

Photo 1 of 1 : SP\_2015\_MA0012\_299\_23\_20150406\_00004.jpg



View of the damaged crown roadway.

* 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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	7.75	Rating **	M	Issue No.	20
LM End	7.75	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.137187 °	39.137187 °
				-122.022793 °	-122.022793 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44978 DS_ID:17163 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/4/2015 Corssing appears to be in good condition. No noticeable issues to report. Rodent burrowing along sides of pipe on L/S/16/2013 Same as last inspection12/16/2013 Same as last inspection6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch steel pipe through levee, 3.0 feet below crown. Both ends capped, terminating on levee slopes. (Permit No. 9390 - Profpe) Originally included in O+M manual (1959). FS Date: 05/05/2015					

No Photos

LM Start	9.23	Rating **	U	Issue No.	21
LM End	9.23	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.158097 °	39.158097 °
				-122.021706 °	-122.021706 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44980 DS_ID:17166 EP_NO: 9390 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 WS concrete headwall tilting away from the levee slope. Concrete Headwall tilting on WS slope 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch CM drain pipe through the levee, 15.0 feet below crown. Concrete head wall, slide gate and grouted revetment on waterward side. Slide gate and Concrete headwall on landward side. (Permit No. 9390 - Profpe). Originally included in O+M manual (1959). FS Date: 05/05/2015					

No Photos

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

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	9.23	Rating **	M	Issue No.	25
LM End	9.23	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.158124 °	39.158124 °
				-122.021701 °	-122.021701 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44981 DS_ID:17165 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/4/2015 Abandoned crossing pipe abandoned. Steel pump platform remains on LS slope, but all appurtenances have been removed. 7/16/2013 Same as last inspection. 12/16/2013 Same as last inspection. 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel pipe through levee, 3.0 feet below crown. waterward end open into concrete spill box. Pump on landward side on steel pier.. (Permit No. 9390 - Profpe) Originally included in O+M manual (1959) FS Date: 05/05/2015					

LM Start	10.46	Rating **	M	Issue No.	24
LM End	10.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.173743 °	39.177968 °
				-122.014800 °	-122.014315 °
DWR ID	DWR MA0012 01 s 2015 24				

Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: The crown roadway needs additional gravel.					

Photo 1 of 1 : SP\_2015\_MA0012\_299\_24\_20150406\_00005.jpg



View of damaged crown roadway.

* 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 2015**

**Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/11/2015 03/11/2015	Bob Duffey

LM Start	10.49	Rating **	M	Issue No.	11
LM End	10.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.173971 °	39.173971 °
				-122.014362 °	-122.014362 °
DWR ID	DWR_MA0012_01_f_2013_11				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : SP\_2015\_MA0012\_299\_11\_20150406\_00006.jpg



View of vehicle slope erosion.

LM Start	11.16	Rating **	U	Issue No.	26
LM End	11.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.180039 °	39.180039 °
				-122.014266 °	-122.014266 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44984 DS_ID:17157 EP_NO: 9386 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/4/2015 Both pipe ends and slide gate in riser are plugged with soil. Crossing is inoperable. Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable. 7/16/2013 Same as last inspection. 12/16/2013 Same as last inspection. 6/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch Corrugated metal drainpipe through the levee, 8.0 feet below the crown. Slide gate in 36-inch pipe riser on the waterward shoulder. (Permit No. 9386 - Wescott) Levee turns eastward. FS Date: 05/05/2015					

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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