

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2014 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

	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 2014 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

Waterway		Bank	Unit Miles
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek		Left	3.90

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2014 - 03/11/2014			
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
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Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
				°	°
DWR ID	DWR_MA0017_01_s_2013_7				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
				°	°
DWR ID	DWR_MA0017_01_s_2013_8				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
				°	°
DWR ID	DWR_MA0017_01_s_2013_9				
Action/Comments					

No Photos

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start	3.42	Rating **	A	Issue No.	3
LM End	7.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.149126 °	39.118708 °	
			-122.912345 °	-122.884834 °	
DWR ID	DWR_MA0017_01_s_2012_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey_s_20140317_114.jpg



View of the native grasses along the landside slope.

LM Start	4.18	Rating **	U	Issue No.	2
LM End	7.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.142155 °	39.118735 °	
			-122.902343 °	-122.884892 °	
DWR ID	DWR_MA0017_01_s_2012_2				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : rduffey_s_20140304_508.jpg



View of the trees on the waterside slope of the Levee.

LM Start	4.18	Rating **	U	Issue No.	1
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.142155 °	39.118675 °	
			-122.902343 °	-122.884772 °	
DWR ID	DWR_MA0017_01_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : rduffey_s_20140304_507.jpg



View of the six-foot crown levee & heavy vegetation on waterside slope.

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start	4.28	Rating **	M	Issue No.	4
LM End	4.28	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.140422 °	39.140422 °	
			-122.902022 °	-122.902022 °	
DWR ID	DWR_MA0017_01_s_2014_4				
Action/Comments					
Inspector Comments: FS_ID:25867 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: No lid on riser-may or may not be an issue 6/2/2013 Same as last inspection 12/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CMP drainpipe through the levee, 19 feet below the crown. Slide gate in 36-inch CMP riser on the waterward slope (USCE 1909). FS Date: 12/31/2013 9:49:50 AM					

Photo 1 of 1 : UCIP_5042.jpg



Slide gate in CMP riser on WS slope.

LM Start	5.38	Rating **	M	Issue No.	10
LM End	5.38	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.127451 °	39.127451 °	
			-122.893450 °	-122.893450 °	
DWR ID	DWR_MA0017_01_s_2014_10				
Action/Comments					
Inspector Comments: FS_ID:25877 EP_NO: 11469 Repair Type: Crossing Status: UCIP Comments: flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue 6/2/2013 Same as last inspection 12/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainpipe through the levee, 5.0 feet below the crown. Flap gate and air vent on the waterward slope. (ABO No.11469-R.D.# 2070). This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 5.43). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010. FS Date: 12/31/2013 9:51:56 AM					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start	5.38	Rating **	M	Issue No.	11
LM End	5.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127449 °	39.127449 °
				-122.893460 °	-122.893460 °
DWR ID	DWR_MA0017_01_s_2014_11				
Action/Comments					
Inspector Comments: FS_ID:25871 EP_NO: 11469 Repair Type: Crossing Status: UCIP Comments: flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue 2/2/2013 Same as last inspection 12/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 16 inch steel drainpipe through the levee 5-feet below the crown. Drainage pumping plant on the landward side. Flap gate on the waterward end. (ABO No.11469-R.D.# 2070). This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 5.43). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010. FS Date: 12/31/2013 9:50:25 AM					

Photo 1 of 1 : UCIP_5044.jpg



Pumping plant, pipes, and ring levees on LS toe.

LM Start	5.39	Rating **	M	Issue No.	18
LM End	5.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.127544 °	39.127544 °
				-122.893763 °	-122.893763 °
DWR ID	DWR_MA0017_01_s_2014_18				
Action/Comments					
Tree or limb					

Photo 1 of 1 : rduffey_s_20140317_113.jpg



View of the down tree along the landside toe.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start	5.81	Rating **	M	Issue No.	12
LM End	5.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127612 °	39.127612 °
				-122.885520 °	-122.885520 °
DWR ID	DWR_MA0017_01_s_2014_12				
Action/Comments					
Inspector Comments: FS_ID:25886 EP_NO: 11457 Repair Type: Crossing Status: UCIP Comments: No cover on CMP riser and no handle for actuating gate. This may or may not be an issue 6/2/2013 Handle to operate gate was in place but still no cover on riser 2/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch drainpipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landward end. Slide gate in 36-inch CMP riser on the waterward slope. Riser unit is mounted on concrete base. (ABO No.11457-Crawford). O&M manual Vol. 5, Revision Year 2010 FS Date: 12/31/2013 9:52:44 AM					

Photo 1 of 1 : UCIP_5050.jpg



36-inch CMP riser and slide gate on WS slope.

LM Start	6.02	Rating **	M	Issue No.	13
LM End	6.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126057 °	39.126057 °
				-122.883096 °	-122.883096 °
DWR ID	DWR_MA0017_01_s_2014_13				
Action/Comments					
Inspector Comments: FS_ID:26394 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: No permit for crossing 6/2/2013 Same as last inspection 12/23/2013 No signs of 12" pvc. Portable tow-pump was lowered down on waterside with 12" pipe ran over roadway. FIELD_STRUCT_DESC: 12-inch HDPE storm drain pipe through the crown of the levee 1.5-feet below the crown. FS Date: 1/6/2014 9:53:43 AM					

Photo 1 of 1 : UCIP_5268.jpg



Portable pump on WS and temporary piping over roadway

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start	6.03	Rating **	M	Issue No.	14
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID	DWR_MA0017_01_s_2014_14				
Action/Comments					
Inspector Comments: FS_ID:25908 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 114678/2/2013 Erosion on WS shoulder above pipes 2/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch PVC conduit through the levee 2-feet below the crown with plastic pipe running through it to pump on LS. FS Date: 12/31/2013 9:59:09 AM					

No Photos

LM Start	6.03	Rating **	M	Issue No.	15
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID	DWR_MA0017_01_s_2014_15				
Action/Comments					
Inspector Comments: FS_ID:25907 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: No permit for this crossing. It is unclear what these hydraulic lines are for, but it is probably the works for a hydraulic butterfly valve at the outlet 2/2013 Erosion on WS shoulder above pipes 2/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 4-inch PVC conduit through the levee 2-feet below the crown with hydraulic lines running through it to pump on LS shoulder. FS Date: 12/31/2013 9:58:13 AM					

Photo 1 of 1 : UCIP_5051.jpg



Pump station on LS shoulder, see hydraulic pump at right.

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start	6.03	Rating **	M	Issue No.	16
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID	DWR_MA0017_01_s_2014_16				
Action/Comments					
Inspector Comments: FS_ID:25909 EP_NO: 11467 Repair Type: Crossing Status: UCIP Comments: This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulation 8/2/2013 Same as last inspection 12/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 12-inch drainpipe through the levee, 2-feet below the crown. Butterfly Valve on the landward shoulder. Pump and electric panel along with multiple valves and appurtances on LS shoulder. (ABO No.11467-Modglin)O&M manual Vol. 5, Revision Year 2010. FS Date: 12/31/2013 9:59:37 AM					

No Photos

LM Start	6.08	Rating **	M	Issue No.	5
LM End	6.08	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.126003 °	39.126003 °
				-122.883353 °	-122.883353 °
DWR ID	DWR_MA0017_01_s_2013_5				
Action/Comments					
Pipe					

Photo 1 of 1 : rduffey_s_20140304_509.jpg



View of the non-permitted pump and pipe through the levee.

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.90	03/11/2014 03/11/2014	Bob Duffey

LM Start	7.19	Rating **	M	Issue No.	17
LM End	7.19	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID	DWR_MA0017_01_s_2014_17				
Action/Comments					
Inspector Comments: FS_ID:25910 EP_NO: 11467 Repair Type: Crossing Status: UCIP Comments: Pipe should be properly abandoned 8/2/2013 Same as last inspection 12/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: *Abandoned* 16-inch Steel drainpipe through the levee 8-feet below the crown. Drainage pumping plant on the landward side. Flap gate on the waterward end. Steel plate welded on end of pipe at LS toe. (ABO No.11467- Modglin). This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 7.19). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010 FS Date: 12/31/2013 10:00:00 AM					

Photo 1 of 1 : UCIP_5062.jpg



Pumping plant in shed on LS at drainage ditch.

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