

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

**Sutter Maintenance Yard Tisdale Bypass**

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

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

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

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

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway		Bank	Unit Miles
Unit No. 01 Tisdale Bypass		Left	4.50

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/06/2014 - 03/06/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley 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 2014**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.50	03/06/2014 03/06/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
				°	°
DWR ID	DWR_ST0009_01_s_2013_2				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
				°	°
DWR ID	DWR_ST0009_01_s_2013_4				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
				°	°
DWR ID	DWR_ST0009_01_s_2013_5				
Action/Comments					

No Photos

<b>* Location</b> LS : Land Side 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 2014**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.50	03/06/2014 03/06/2014	Bob Duffey

LM Start	<b>0.60</b>	Rating **	A	Issue No.	<b>159</b>
LM End	<b>0.60</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.028367 °	39.028367 °	
			-121.810786 °	-121.810786 °	
DWR ID	DWR_ST0009_01_s_2014_159				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey\_s\_20140317\_110.jpg



View of the native grasses on both slopes.

LM Start	<b>2.18</b>	Rating **	M	Issue No.	<b>3</b>
LM End	<b>4.10</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.028173 °	39.028012 °	
			-121.781475 °	-121.745665 °	
DWR ID	DWR_ST0009_01_s_2012_3				
Action/Comments					
Pole					

Photo 1 of 1 : rduffey\_s\_20140304\_673.jpg



View of the PG&E poles along the landside crown of the levee.

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

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.50	03/06/2014 03/06/2014	Bob Duffey

LM Start	<b>3.64</b>	Rating **	M	Issue No.	<b>158</b>
LM End	<b>3.64</b>	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.027911 °	39.027911 °
				-121.754224 °	-121.754224 °
DWR ID	DWR_ST0009_01_s_2014_158				
Action/Comments					
Inspector Comments: FS_ID:23689					
EP_NO: 14740					
Repair Type:					
Crossing Status:					
UCIP Comments: 5/20/2013 Carsonite marker on WS shoulder missing and should be replaced 10/30/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 4-inch pipe through levee and under channel 2.5 feet below crown. Carsonite signs on both LS and WS shoulder.					
Gas Wells 200-feet off of LS toe. (Permit No. 14740 - Nahama and Weagant Energy Co.) Drawings available.					
FS Date: 11/6/2013 7:22:38 AM					

Photo 1 of 1 : UCIP\_3602.jpg



Carsonite sign on LS shoulder with view of gas well in background.

<b>* Location</b> LS : Land Side 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**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway		Bank	Unit Miles
Unit No. 02 Tisdale Bypass		Right	4.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/06/2014 - 03/06/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

**Summer & Winter Inspections**

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**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass		Right	4.43	03/06/2014 03/06/2014	Bob Duffey

LM Start	<b>0.11</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>0.25</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.023760 °	39.024559 °	
			-121.818875 °	-121.816344 °	
DWR ID	DWR_ST0009_02_s_2012_1				
Action/Comments					
Ditch					

Photo 1 of 1 : rduffey\_s\_20140304\_823.jpg



View of the agricultural ditch and erosion along the landside toe of the levee.

LM Start	<b>0.52</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>1.74</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.025539 °	39.025398 °	
			-121.811540 °	-121.789006 °	
DWR ID	DWR_ST0009_02_s_2012_2				
Action/Comments					
Ditch					

Photo 1 of 1 : rduffey\_s\_20140304\_824.jpg



View of the ag ditch next to the L/S toe.

LM Start	<b>0.94</b>	Rating **	A	Issue No.	<b>149</b>
LM End	<b>0.94</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.025544 °	39.025544 °	
			-121.803835 °	-121.803835 °	
DWR ID	DWR_ST0009_02_s_2014_149				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey\_s\_20140317\_109.jpg



View of the native grasses on those slopes.

<b>* Location</b> LS : Land Side 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 2014**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/06/2014 03/06/2014	Bob Duffey

LM Start	<b>1.01</b>	Rating **	M	Issue No.	<b>3</b>
LM End	<b>1.01</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025542 °	39.025542 °
				-121.802468 °	-121.802468 °
DWR ID	DWR_ST0009_02_s_2012_3				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : rduffey\_s\_20140304\_825.jpg



View of the erosion along the waterside toe of the levee.

LM Start	<b>1.14</b>	Rating **	M	Issue No.	<b>147</b>
LM End	<b>1.14</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025503 °	39.025503 °
				-121.800053 °	-121.800053 °
DWR ID	DWR_ST0009_02_s_2014_147				
Action/Comments					
Inspector Comments: FS_ID:23684 EP_NO: 267 Repair Type: Crossing Status: UCIP Comments: Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted 5/20/2013 Same as last inspection 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 54-inch concrete pipe through levee, 29.5 feet below the crown. Slide gates on both ends. Waterward end gate in 5-foot by 6-foot concrete box. Landward end gate in concrete "U" headwall. Siphon pipe under and across bypass, steel concrete encased. (Permit No. 267 & 290 - Sutter Basin Water Co.) FS Date: 11/6/2013 7:12:40 AM					

Photo 1 of 1 : UCIP\_3599.jpg



Slide gate at concrete outlet on LS toe.

<b>* Location</b> LS : Land Side 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 2014**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/06/2014 03/06/2014	Bob Duffey

LM Start	<b>1.29</b>	Rating **	M	Issue No.	<b>4</b>
LM End	<b>1.29</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.025478 °	39.025478 °	
			-121.797232 °	-121.797232 °	
DWR ID	DWR_ST0009_02_s_2013_4				
Action/Comments					

Photo 1 of 1 : rduffey\_s\_20140304\_826.jpg



View of the erosion along the waterside berm.

LM Start	<b>1.50</b>	Rating **	M	Issue No.	<b>5</b>
LM End	<b>1.50</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.025446 °	39.025446 °	
			-121.793347 °	-121.793347 °	
DWR ID	DWR_ST0009_02_s_2013_5				
Action/Comments					

Photo 1 of 1 : rduffey\_s\_20140304\_827.jpg



View of the erosion along the waterside berm

<b>* Location</b> LS : Land Side 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 2014**

**Sutter Maintenance Yard Tisdale Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	03/06/2014 03/06/2014	Bob Duffey

LM Start	<b>4.21</b>	Rating **	M	Issue No.	<b>148</b>
LM End	<b>4.21</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.024079 °	39.024079 °
				-121.743420 °	-121.743420 °
DWR ID	DWR_ST0009_02_s_2014_148				
Action/Comments					
Inspector Comments: FS_ID:23690					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Need to identify permit for crossing 0/30/2013					
Same as last inspection.					
FIELD_STRUCT_DESC: Natural gas pipeline markers on LS shoulder and toe and WS shoulder and toe. No photos available.					
FS Date: 11/6/2013 7:24:41 AM					

Photo 1 of 1 : UCIP\_3605.jpg



Marker on LS shoulder and toe

<b>* Location</b> LS : Land Side 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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