

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2014 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0005**

	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 0005**

Waterway			Bank	Unit Miles
Unit No. 01 Butte Creek 1			Left	15.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/29/2014 - 04/29/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper 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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_MA0005_01_s _ 2013_11				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_MA0005_01_s _ 2013_12				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_MA0005_01_s _ 2013_13				
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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	0.40	Rating **	M	Issue No.	31
LM End	0.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.693000 °	39.693000 °
				-121.778235 °	-121.778235 °
DWR ID	DWR_MA0005_01_s _ 2014_31				
Action/Comments					
Tree or limb					

Photo 1 of 1 : rduffey\_s\_20140505\_240.jpg



view of the tree limb laying on the slope and crown.

LM Start	0.58	Rating **	M	Issue No.	903
LM End	0.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.690745 °	39.690745 °
				-121.777342 °	-121.777342 °
DWR ID	DWR_MA0005_01_s _ 2012_903				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : rduffey\_s\_20140304\_372.jpg



View of the large elderberries along the L/S toe.

LM Start	0.78	Rating **	M	Issue No.	32
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.687917 °	39.687917 °
				-121.777393 °	-121.777393 °
DWR ID	DWR_MA0005_01_s _ 2014_32				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : rduffey\_s\_20140505\_241.jpg



Trim the trees along the landside slope.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	1.62	Rating **	M	Issue No.	16
LM End	1.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.676129 °	39.676129 °
				-121.778171 °	-121.778171 °
DWR ID	DWR_MA0005_01_s _ 2013_16				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : rduffey\_s\_20140304\_369.jpg



View of the unauthorized vehicle ramp on the landside slope.

LM Start	1.68	Rating **	M	Issue No.	1
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675528 °	39.675528 °
				-121.778642 °	-121.778642 °
DWR ID	DWR_MA0005_01_s _ 2012_1				
Action/Comments					
Debris					

Photo 1 of 1 : rduffey\_s\_20140304\_362.jpg



View of the removed garbage but construction supply on pallets.

LM Start	1.72	Rating **	M	Issue No.	33
LM End	1.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675158 °	39.675158 °
				-121.779025 °	-121.779025 °
DWR ID	DWR_MA0005_01_s _ 2014_33				
Action/Comments					
Firewood					

Photo 1 of 1 : rduffey\_s\_20140505\_242.jpg



View of the firewood along the landside toe.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	2.13	Rating **	M	Issue No.	10
LM End	2.13	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			39.670112 °	39.670112 °
				-121.782012 °	-121.782012 °
DWR ID	DWR_MA0005_01_s _ 2012_10				
Action/Comments					
Inspector Comments: No Permit.					

Photo 1 of 1 : rduffey\_s\_20140304\_367.jpg



View of the gate with no permit.

LM Start	2.58	Rating **	M	Issue No.	9
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.663876 °	39.663876 °
				-121.784014 °	-121.784014 °
DWR ID	DWR_MA0005_01_f _ 2012_9				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : rduffey\_s\_20140304\_366.jpg



View of the vehicle erosion along the landside slope.

LM Start	2.86	Rating **	M	Issue No.	2
LM End	2.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.660124 °	39.660124 °
				-121.785136 °	-121.785136 °
DWR ID	DWR_MA0005_01_s _ 2012_2				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_363.jpg



View of the large prunings pile along the L/S toe.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
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U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	3.12	Rating **	C	Issue No.	3
LM End	3.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.656779 °	39.656779 °
				-121.787127 °	-121.787127 °
DWR ID	DWR_MA0005_01_s _ 2012_3				
Action/Comments					
Prunings					

No Photos

LM Start	3.54	Rating **	M	Issue No.	17
LM End	3.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.651070 °	39.651070 °
				-121.789050 °	-121.789050 °
DWR ID	DWR_MA0005_01_s _ 2013_17				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_370.jpg



View of the prunings along the landside slope.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
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M : Minimally Acceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	3.67	Rating **	M	Issue No.	4
LM End	3.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.649522 °	39.649522 °
				-121.787965 °	-121.787965 °
DWR ID	DWR_MA0005_01_s_2014_4				
Action/Comments					
Inspector Comments: FS_ID:24532					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned5/29/2013 Same as last inspection1/20/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal siphon through levee, 10.5 feet below crown. Slide gate in corrugated metal riser on waterward slope. Concrete distribution box on LS toe and concrete overflow and siphon box at edge of berm. (USCE 1958)					
FS Date: 11/21/2013 12:34:21 PM					

Photo 1 of 1 : UCIP\_4137.jpg



CMP riser with slide gate on WS shoulder. Notice bent screw in open position.

LM Start	3.91	Rating **	C	Issue No.	14
LM End	3.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.646599 °	39.646599 °
				-121.785705 °	-121.785705 °
DWR ID	DWR_MA0005_01_f_2012_14				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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CR : Crown

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C : Corrected  
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+ Issue Type  
Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	3.97	Rating **	M	Issue No.	15
LM End	3.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.645846 °	39.645846 °
				-121.785155 °	-121.785155 °
DWR ID	DWR_MA0005_01_s_2014_15				
Action/Comments					
Inspector Comments: FS_ID:24535					
EP_NO: 6544A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipeline should be marked where pipe crosses levee as it is 4-feet below the surface5/29/2013 Same as last inspection11/20/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 6-inch concrete encased high pressure steel gas line through the levee, 4.0 feet below the crown. 8-inch diameter PG&E gas access manhole located on south side of road 250-feet east of levee crown. (Permit No. 6544A)					
FS Date: 11/21/2013 12:36:27 PM					

Photo 1 of 1 : UCIP\_4139.jpg



Location of PG&amp;E access lid 250-feet east of levee crown on south side of roadway.

LM Start	5.65	Rating **	M	Issue No.	18
LM End	5.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.624559 °	39.624559 °
				-121.772141 °	-121.772141 °
DWR ID	DWR_MA0005_01_s_2014_18				
Action/Comments					
Inspector Comments: FS_ID:24538					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe 1/2 filled with soil at slide gate on					
WS/29/2013 Same as last inspection. Land owner said pipes are					
abandoned and no longer used. Covers should be made for top of					
standpipe to prevent falls. Pipes should be properly					
abandoned1/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 2 of 2. 36-inch pipe through levee 11.0 feet					
below crown. Slide gate in 54-inch corrugated metal riser on waterward					
slope and concrete "U" headwall on the landward side. (USACE 1957)					
FS Date: 11/21/2013 12:39:05 PM					

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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	5.65	Rating **	M	Issue No.	19
LM End	5.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.624559 °	39.624559 °
				-121.772141 °	-121.772141 °
DWR ID	DWR MA0005 01 s 2014 19				

**Action/Comments**

Inspector Comments: FS\_ID:24537

EP\_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: Pipe 1/2 filled with soil at slide gate end 5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned 11/19/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 1 of 2. 36-inch pipe through levee 11.0 feet below crown. Slide gate in 54-inch corrugated metal riser on waterward slope and concrete "U" headwall on the landward side. (USACE 1957)  
FS Date: 11/21/2013 12:38:13 PM

Photo 1 of 1 : UCIP\_4141.jpg



54-inch CMP riser and slide gate on WS shoulder.

LM Start	5.79	Rating **	M	Issue No.	55
LM End	6.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.622766 °	39.615666 °
				-121.773159 °	-121.777353 °

**Action/Comments**

Ditch

Photo 1 of 1 : rduffey\_s\_20140304\_371.jpg



View of the irrigation ditch along the landside toe.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	7.70	Rating **	M	Issue No.	20
LM End	7.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.597725 °	39.597725 °
				-121.787257 °	-121.787257 °
DWR ID	DWR_MA0005_01_s _ 2014_20				
Action/Comments					
Inspector Comments: FS_ID:24553					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe filled with soil and outlet/appurtances are buried 5/29/2013 Same as last inspection11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch pipe through levee, 8.5 feet below crown. Flap gate on the waterward end. Concrete "U" shaped headwall on LS toe. (USCE 1952)					
FS Date: 11/21/2013 12:51:20 PM					

Photo 1 of 1 : UCIP\_4146.jpg



Headwall at LS toe.

LM Start	8.33	Rating **	M	Issue No.	21
LM End	8.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.589751 °	39.589751 °
				-121.792818 °	-121.792818 °
DWR ID	DWR_MA0005_01_s _ 2014_21				
Action/Comments					
Inspector Comments: FS_ID:24555					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe filled with soil 5/29/2013 Same as last inspection 11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.3 feet below the crown. Flap gate on the waterward end.					
Concrete headwall at both toes. (USACE 1952)					
FS Date: 11/21/2013 12:53:16 PM					

Photo 1 of 1 : UCIP\_4150.jpg



Outlet at WS toe.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	9.21	Rating **	M	Issue No.	22
LM End	9.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.579908 °	39.579908 °
				-121.802790 °	-121.802790 °
DWR ID	DWR_MA0005_01_s_2014_22				
Action/Comments					
Inspector Comments: FS_ID:24558					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Need to confirm proper abandonment of pipe. Pipe should be plugged on LS/29/2013 Same as last inspection11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 11.5 feet below the crown. Distribution box at the landward toe. (USACE 1955)					
FS Date: 11/21/2013 1:01:31 PM					

Photo 1 of 1 : UCIP\_4153.jpg



Concrete distribution box at LS toe.

LM Start	9.65	Rating **	M	Issue No.	23
LM End	9.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.575072 °	39.575072 °
				-121.807805 °	-121.807805 °
DWR ID	DWR_MA0005_01_s_2014_23				
Action/Comments					
Inspector Comments: FS_ID:24559					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Seems there should be flap gates on this structure5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 1 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952).					
FS Date: 11/21/2013 1:02:12 PM					

Photo 1 of 1 : UCIP\_4155.jpg



LS of pipe crossing.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	9.66	Rating **	M	Issue No.	24
LM End	9.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.575036 °	39.575036 °
				-121.807807 °	-121.807807 °
DWR ID	DWR_MA0005_01_s _ 2014_24				
Action/Comments					
Inspector Comments: FS_ID:24560					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Seems there should be flap gates on this structure5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 2 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952).					
FS Date: 11/21/2013 1:03:11 PM					

No Photos

LM Start	9.66	Rating **	M	Issue No.	25
LM End	9.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.575000 °	39.575000 °
				-121.807808 °	-121.807808 °
DWR ID	DWR_MA0005_01_s _ 2014_25				
Action/Comments					
Inspector Comments: FS_ID:25845					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Seems there should be flap gates on this structure 5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch 11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 3 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952).					
FS Date: 11/21/2013 1:03:00 PM					

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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	9.66	Rating **	M	Issue No.	26
LM End	9.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.574964 °	39.574964 °
				-121.807810 °	-121.807810 °
DWR ID	DWR_MA0005_01_s _ 2014_26				
Action/Comments					
Inspector Comments: FS_ID:24562					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Seems there should be flap gates on this structure5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 4 of 4: 66 Inch Corrugated Metal Pipe through levee, 17.9 feet below the crown. Concrete headwalls on both ends. (USCE 1952).					
FS Date: 11/21/2013 1:04:27 PM					

No Photos

LM Start	9.66	Rating **	M	Issue No.	5
LM End	10.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.574837 °	39.567892 °
				-121.807913 °	-121.819283 °
DWR ID	DWR_MA0005_01_s _ 2012_5				
Action/Comments					
Ditch					

Photo 1 of 1 : rduffey\_s\_20140304\_364.jpg



View of the AG ditch along the L/S 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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	10.19	Rating **	M	Issue No.	27
LM End	10.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.570596 °	39.570596 °
				-121.815215 °	-121.815215 °
DWR ID	DWR_MA0005_01_s_2014_27				
Action/Comments					
Inspector Comments: FS_ID:24563					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe and headwall buried on WS, no access to slide gate 5/29/2013 Same as last inspection 11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate on the waterward end. Flap gate and headwall on the landward end. Concrete headwall at the waterward toe. (USCE 1952)					
FS Date: 11/21/2013 1:05:26 PM					

Photo 1 of 1 : UCIP\_4161.jpg



Flap gate and headwall at LS toe in irrigation or drainage ditch.

LM Start	10.99	Rating **	M	Issue No.	28
LM End	10.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.562559 °	39.562559 °
				-121.825808 °	-121.825808 °
DWR ID	DWR_MA0005_01_s_2014_28				
Action/Comments					
Inspector Comments: FS_ID:24565					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe buried on both sides of levee5/29/2013 Same as last inspection11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee, 12.2 feet below the crown. Flap gate on the waterward end. (USCE 1952)					
FS Date: 11/21/2013 1:06:52 PM					

Photo 1 of 1 : UCIP\_4163.jpg



Concrete headwall at 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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	12.00	Rating **	M	Issue No.	29
LM End	12.00	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551212 °	39.551212 °
				-121.837724 °	-121.837724 °
DWR ID	DWR_MA0005_01_s_2014_29				
Action/Comments					
Inspector Comments: FS_ID:24577					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe burried on both LS and WS/29/2013 Same as last inspection11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 48" Corrugated Metal Pipe riser and sparling water meter/irrigation structure. 4-foot by 6-foot concrete outlet box on LS toe.(USACE 1952)					
FS Date: 11/21/2013 1:31:58 PM					

Photo 1 of 1 : UCIP\_4164.jpg



Buried pipe at concrete box, LS toe.

LM Start	12.00	Rating **	M	Issue No.	6
LM End	13.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551235 °	39.531462 °
				-121.837697 °	-121.856165 °
DWR ID	DWR_MA0005_01_s_2012_6				
Action/Comments					
Ditch					

Photo 1 of 1 : rduffey\_s\_20140304\_365.jpg



View of the AG ditch along the L/S 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



**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/29/2014 04/29/2014	Bob Duffey

LM Start	14.66	Rating **	M	Issue No.	30
LM End	14.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522200 °	39.522200 °
				-121.865592 °	-121.865592 °
DWR ID	DWR_MA0005_01_s_2014_30				
Action/Comments					
Inspector Comments: FS_ID:24581					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls 5/29/2013 Same as last inspection 11/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 13.0 feet below the crown. Flap gate on the waterward end. Concrete headwall on both ends. (USCE 1952)					
FS Date: 11/21/2013 1:35:23 PM					

Photo 1 of 1 : UCIP\_4166.jpg



CMP pipe, flap gate, and headwall on WS 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**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway			Bank	Unit Miles
Unit No. 02 Butte Creek 1			Right	16.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/14/2014 - 04/14/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper 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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	1.23	Rating **	M	Issue No.	1
LM End	1.62	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.529933 °	39.534102 °
				-121.861563 °	-121.856947 °
DWR ID	DWR_MA0005_02_s _ 2012_1				
Action/Comments					
Ditch					

Photo 1 of 1 : rduffey\_s\_20140304\_384.jpg



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

LM Start	1.45	Rating **	M	Issue No.	23
LM End	1.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.732942 °	39.732942 °
				-121.772445 °	-121.772445 °
DWR ID	DWR_MA0005_02_s _ 2014_23				
Action/Comments					
Inspector Comments: FS_ID:24148					
EP_NO: 16381					
Repair Type:					
Crossing Status:					
UCIP Comments: Gasline not marked. Notes in permit indicate installation occurred. Owner needs to install markers 6/6/2013 Same as last inspection. Unable to locate 11/13/2013 Unable to locate.					
FIELD_STRUCT_DESC: 1 of 2: 2" gas main. (Permit No. 16381)					
FS Date: 11/14/2013 1:28:01 PM					

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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	1.88	Rating **	A/W	Issue No.	42
LM End	1.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.536871 °	39.536871 °
				-121.853716 °	-121.853716 °
DWR ID	DWR_MA0005_02_s _ 2014_42				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey\_s\_20140421\_166.jpg



View of active rodent holes along the slope.

LM Start	1.89	Rating **	M	Issue No.	4
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.536923 °	39.536923 °
				-121.853638 °	-121.853638 °
DWR ID	DWR_MA0005_02_s _ 2012_4				
Action/Comments					
Garbage					

Photo 1 of 1 : rduffey\_s\_20140304\_387.jpg



View of the garbage along the L/S 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



**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	1.94	Rating **	M	Issue No.	24
LM End	1.94	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID	DWR_MA0005_02_s _ 2014_24				
Action/Comments					
Inspector Comments: FS_ID:24055					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Vegetation needs to be cleared from outlet 6/6/2013 Same as last inspection 11/12/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 17.0 feet below the crown. Flap gate on the waterward end. Slide gate on LS toe. Concrete headwall at both toes.					
FS Date: 11/14/2013 9:05:28 AM					

Photo 1 of 1 : UCIP\_3927.jpg



Concrete headwall and slide gate on LS toe.

LM Start	2.92	Rating **	M	Issue No.	27
LM End	2.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.549014 °	39.549014 °
				-121.842866 °	-121.842866 °
DWR ID	DWR_MA0005_02_s _ 2014_27				
Action/Comments					
Inspector Comments: FS_ID:24056					
EP_NO: 3927					
Repair Type:					
Crossing Status:					
UCIP Comments: Pump does not appear to be in use or is abandoned 6/6/2013 Same as last inspection 11/12/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 20-inch steel pipe through the levee, 2.4 feet below the crown. Siphon breaker in 24-inch corrugated metal riser on the landward shoulder. Portable pump on the waterward side. (Permit No. 3927)					
FS Date: 11/14/2013 9:06:21 AM					

Photo 1 of 1 : UCIP\_3928.jpg



Pump on metal pier at WS 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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	3.15	Rating **	M	Issue No.	7
LM End	4.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551780 °	39.567430 °
				-121.840507 °	-121.823065 °
DWR ID	DWR_MA0005_02_s _ 2012_7				
Action/Comments					
Ditch					

Photo 1 of 1 : rduffey\_s\_20140304\_389.jpg



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

LM Start	4.16	Rating **	M	Issue No.	28
LM End	4.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.562875 °	39.562875 °
				-121.828782 °	-121.828782 °
DWR ID	DWR_MA0005_02_s _ 2014_28				
Action/Comments					
Inspector Comments: FS_ID:26386					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe open on WS and is not filled with					
concrete6/6/2013 Sutter Maintenance Yard supervisor Jason Cooper					
said there is a flap gate on the LS end of the pipe in the western most					
ditch to prevent high water flooding. Not sure if this is adequate, will					
talk to levee inspector to find out1/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 5 of 5: 60-inch drain pipe through the levee,					
16.6 feet below the crown. Pipe partially plugged on LS with concrete					
wall. Flap gate installed on concrete plug to allow floodwater from LS to					
flow to WS. (USACE 1955)					
FS Date: 1/6/2014 8:34:56 AM					

Photo 1 of 2 : UCIP\_5250.jpg



Concrete headwall on LS shoulder

<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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	4.16	Rating **	M	Issue No.	28 (cont)
LM End	4.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.562875 °	39.562875 °
				-121.828782 °	-121.828782 °
DWR ID	DWR_MA0005_02_s _ 2014_28				
Action/Comments					
Inspector Comments: FS_ID:26386					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe open on WS and is not filled with concrete 6/6/2013 Sutter Maintenance Yard supervisor Jason Cooper said there is a flap gate on the LS end of the pipe in the western most ditch to prevent high water flooding. Not sure if this is adequate, will talk to levee inspector to find out 1/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 5 of 5: 60-inch drain pipe through the levee, 16.6 feet below the crown. Pipe partially plugged on LS with concrete wall. Flap gate installed on concrete plug to allow floodwater from LS to flow to WS. (USACE 1955)					
FS Date: 1/6/2014 8:34:56 AM					

Photo 2 of 2 : UCIP\_5252.jpg



Flap gate installed inside pipe at LS toe, visible from WS toe.

LM Start	5.43	Rating **	M	Issue No.	29
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.576008 °	39.576008 °
				-121.812599 °	-121.812599 °
DWR ID	DWR_MA0005_02_s _ 2014_29				
Action/Comments					
Inspector Comments: FS_ID:24075					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS 6/6/2013 Same as last inspection 11/12/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in 56-inch cmp riser on WS berm. Flap gate on the waterward end. (USACE 1955)					
FS Date: 11/14/2013 10:01:52 AM					

Photo 1 of 1 : UCIP\_3930.jpg



56-inch CMP riser on WS 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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	6.66	Rating **	A	Issue No.	43
LM End	6.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.590320 °	39.590320 °
				-121.799698 °	-121.799698 °
DWR ID	DWR_MA0005_02_s _ 2014_43				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey\_s\_20140421\_167.jpg



View of the native grasses growing on both slopes.

LM Start	7.38	Rating **	C	Issue No.	11
LM End	7.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.599607 °	39.599607 °
				-121.793848 °	-121.793848 °
DWR ID	DWR_MA0005_02_s _ 2012_11				
Action/Comments					
Prunings					

No Photos

LM Start	7.86	Rating **	C	Issue No.	2
LM End	7.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.605265 °	39.605265 °
				-121.788388 °	-121.788388 °
DWR ID	DWR_MA0005_02_s _ 2012_2				
Action/Comments					
Prunings					

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



**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	8.10	Rating **	M	Issue No.	13
LM End	8.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.607710 °	39.607710 °
				-121.785868 °	-121.785868 °
DWR ID	DWR_MA0005_02_s _ 2012_13				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : rduffey\_s\_20140304\_394.jpg



View of the vehicle erosion along the slope.

LM Start	8.12	Rating **	M	Issue No.	30
LM End	8.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.607802 °	39.607802 °
				-121.785597 °	-121.785597 °
DWR ID	DWR_MA0005_02_s _ 2014_30				
Action/Comments					
Inspector Comments: FS_ID:24085					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe 3/4 full with soil on LS 6/6/2013 Same as last inspection 11/12/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 6.7 feet below the crown. Concrete headwall at the landward toe.					
Flap gate on the waterward end. (USACE 1955)					
FS Date: 11/14/2013 10:22:35 AM					

Photo 1 of 1 : UCIP\_3932.jpg



Concrete headwall on LS 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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	8.45	Rating **	M	Issue No.	15
LM End	8.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.612212 °	39.612212 °
				-121.782922 °	-121.782922 °
DWR ID	DWR_MA0005_02_s _ 2012_15				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_396.jpg



View of the brush pile at the toe of the levee.

LM Start	8.80	Rating **	M	Issue No.	17
LM End	8.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.616353 °	39.616353 °
				-121.779808 °	-121.779808 °
DWR ID	DWR_MA0005_02_s _ 2012_17				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_398.jpg



View of the brush pile at the toe of the levee.

LM Start	8.91	Rating **	M	Issue No.	12
LM End	8.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.617785 °	39.617785 °
				-121.778969 °	-121.778969 °
DWR ID	DWR_MA0005_02_s _ 2013_12				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_393.jpg



View of the prunings along the landside toe.

**\* Location**

LS : Land Side  
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 2014**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	8.94	Rating **	M	Issue No.	31
LM End	8.94	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.618163 °	39.618163 °
				-121.778745 °	-121.778745 °
DWR ID	DWR_MA0005_02_s _ 2014_31				
Action/Comments					
Inspector Comments: FS_ID:24111					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: LS inlet is buried under soil and covered with brambles. Slide gate missing from LS 6/2013 Same as last inspection 11/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch pipe through the levee, 12.0 feet below the crown. Flap gate on waterward end. Concrete headwall on the waterward end. (USACE 1957)					
FS Date: 11/14/2013 12:08:28 PM					

Photo 1 of 1 : UCIP\_3958.jpg



Concrete U shaped headwall and flap gate at WS toe.

LM Start	9.59	Rating **	M	Issue No.	32
LM End	9.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.626894 °	39.626894 °
				-121.775180 °	-121.775180 °
DWR ID	DWR_MA0005_02_s _ 2014_32				
Action/Comments					
Inspector Comments: FS_ID:24116					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe 1/2 filled with soil 6/6/2013 Same as last inspection 11/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal storm drain pipe through the levee, 11.2 feet below the crown. Flap gate on waterward end. Concrete "U" shaped headwalls on both ends. (USCE 1957)					
FS Date: 11/14/2013 12:17:23 PM					

Photo 1 of 1 : UCIP\_3964.jpg



Concrete U-shaped headwall on LS 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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	10.54	Rating **	M	Issue No.	3
LM End	10.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.639018 °	39.639018 °
				-121.781458 °	-121.781458 °
DWR ID	DWR_MA0005_02_s _ 2012_3				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_386.jpg



View of the prunings along the landside toe.

LM Start	10.61	Rating **	M	Issue No.	14
LM End	10.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.639967 °	39.639967 °
				-121.782152 °	-121.782152 °
DWR ID	DWR_MA0005_02_s _ 2012_14				
Action/Comments					
Equipment					

Photo 1 of 1 : rduffey\_s\_20140304\_395.jpg



View of the equipment along the L/S toe.

LM Start	10.79	Rating **	M	Issue No.	18
LM End	10.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.642061 °	39.642061 °
				-121.783861 °	-121.783861 °
DWR ID	DWR_MA0005_02_s _ 2012_18				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : rduffey\_s\_20140304\_399.jpg



View of the vehicle erosion along the slope of 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



**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	10.95	Rating **	M	Issue No.	21
LM End	10.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.644076 °	39.644480 °
				-121.785471 °	-121.785762 °
DWR ID	DWR_MA0005_02_s_2013_21				
Action/Comments					
Tree or limb					

Photo 1 of 1 : rduffey\_s\_20140304\_401.jpg



View of the redwood trees planted along the landside toe.

LM Start	11.22	Rating **	M	Issue No.	26
LM End	11.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.647400 °	39.647400 °
				-121.787825 °	-121.787825 °
DWR ID	DWR_MA0005_02_f_2012_26				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	11.29	Rating **	M	Issue No.	33
LM End	11.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.648185 °	39.648185 °
				-121.788563 °	-121.788563 °
DWR ID	DWR_MA0005_02_s_2014_33				
Action/Comments					
Inspector Comments: FS_ID:24125					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe appears abandoned. It needs to be abandoned properly. 9/6/2013 Same as last inspection. 11/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal siphon through the levee, 9.4 feet below the crown. Slide gate in 42-inch corrugated metal riser on the waterward slope. Concrete distribution box on the landward side. (USCE 1958)					
FS Date: 11/14/2013 12:35:49 PM					

Photo 1 of 1 : UCIP\_3972.jpg



CM riser with slide gate on WS shoulder.

LM Start	11.74	Rating **	M	Issue No.	6
LM End	11.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.654268 °	39.657142 °
				-121.789525 °	-121.788690 °
DWR ID	DWR_MA0005_02_s_2012_6				
Action/Comments					
Ditch					

Photo 1 of 1 : rduffey\_s\_20140304\_388.jpg



View of the ditch along the L/S 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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	11.94	Rating **	M	Issue No.	16
LM End	11.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.657050 °	39.657050 °
				-121.788717 °	-121.788717 °
DWR ID	DWR_MA0005_02_f_2013_16				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_397.jpg



View of the prunings at the toe of the levee.

LM Start	12.25	Rating **	M	Issue No.	34
LM End	12.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.660980 °	39.660980 °
				-121.786341 °	-121.786341 °
DWR ID	DWR_MA0005_02_s_2014_34				
Action/Comments					
Inspector Comments: FS_ID:24126					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: This pipe appears to be abandoned6/6/2013					
Same as last inspection11/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch siphon pipe through the levee, 12.3 feet below the crown. Slide gate in 42-inch corrugated metal riser on the waterward slope. 5-foot X 5-foot Concrete distribution box at LS toe. (USCAE 1958)					
FS Date: 11/14/2013 12:43:55 PM					

Photo 1 of 1 : UCIP\_3977.jpg



42-inch CMP riser on WS shoulder with slide gate.

<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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	13.03	Rating **	M	Issue No.	19
LM End	13.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.671239 °	39.671239 °
				-121.782486 °	-121.782486 °
DWR ID	DWR_MA0005_02_s _ 2012_19				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_400.jpg



View of the brush pile at the toe of the levee.

LM Start	13.23	Rating **	M	Issue No.	5
LM End	13.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673956 °	39.673956 °
				-121.781278 °	-121.781278 °
DWR ID	DWR_MA0005_02_s _ 2012_5				
Action/Comments					
Equipment					

No Photos

LM Start	13.35	Rating **	M	Issue No.	22
LM End	13.35	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675311 °	39.675311 °
				-121.780371 °	-121.780371 °
DWR ID	DWR_MA0005_02_s _ 2013_22				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey\_s\_20140304\_402.jpg



View of the prunings along the waterside 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



**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	13.35	Rating **	M	Issue No.	35
LM End	13.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.675379 °	39.675379 °
				-121.780319 °	-121.780319 °
DWR ID	DWR_MA0005_02_s_2014_35				
Action/Comments					
Inspector Comments: FS_ID:24128					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe appears to be abandoned. No pump found.					
Pipe should be abandoned properly 6/6/2013 Same as last inspection 11/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch pipe through the levee, 9.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Pump and 36-inch concrete standpipe on the waterward berm. (USCE 1958)					
FS Date: 11/14/2013 12:47:15 PM					

Photo 1 of 1 : UCIP\_3978.jpg



Slide gate in CM riser on WS toe.

LM Start	13.59	Rating **	M	Issue No.	36
LM End	13.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.678267 °	39.678267 °
				-121.778322 °	-121.778322 °
DWR ID	DWR_MA0005_02_s_2014_36				
Action/Comments					
Inspector Comments: FS_ID:24130					
EP_NO: 17127					
Repair Type:					
Crossing Status:					
UCIP Comments: Debris, soil, and vegetation creating minor blockage at flap gate outlet 6/6/2013 Same as last inspection 11/13/2013					
Flap gate is completely blocked from being able to open.					
FIELD_STRUCT_DESC: 36-Inch Corrugated Metal pipe drain pipe through the levee approximately 12-feet below the crown. 4-foot X 4-foot concrete box and slide gate on land side. Concrete headwall and flap gate at waterside outlet. (Permit No. 17127)					
FS Date: 11/14/2013 12:51:11 PM					

Photo 1 of 1 : UCIP\_3980.jpg



Slide gate at 4X4 concrete box on LS 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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	13.97	Rating **	A/W	Issue No.	20
LM End	14.16	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.683630 °	39.686221 °
				-121.777916 °	-121.779051 °
DWR ID	DWR_MA0005_02_s _ 2012_20				
Action/Comments					
Environmental Requirements.					

No Photos

LM Start	13.99	Rating **	M	Issue No.	37
LM End	13.99	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.683896 °	39.683896 °
				-121.778183 °	-121.778183 °
DWR ID	DWR_MA0005_02_s _ 2014_37				
Action/Comments					
Inspector Comments: FS_ID:24138					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe appears to be abandoned 6/6/2013 Boiler has been removed and pipe buried on LS. Unable to locate 1/13/2013 Unable to locate.					
FIELD_STRUCT_DESC: 8-inch steel pipe through levee, 6.5 feet below crown. Boiler attached to LS end of pipe. (USACE 1958)					
FS Date: 11/14/2013 1:12:54 PM					

Photo 1 of 1 : UCIP\_3981.jpg



Pipe attached at boiler 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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	14.15	Rating **	M	Issue No.	38
LM End	14.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.685961 °	39.685961 °
				-121.779041 °	-121.779041 °
DWR ID	DWR_MA0005_02_s_2014_38				
Action/Comments					
Inspector Comments: FS_ID:24139					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe appears to be abandoned6/6/2013 Same as last inspection1/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 6-inch steel pipe through levee, 7.1 feet below crown. Siphon breaker in corrugated metal riser on landward slope. One corrugated metal cutoff wall. Pipe is open on both ends. (USCE 1958)					
FS Date: 11/14/2013 1:13:38 PM					

Photo 1 of 1 : UCIP\_3982.jpg



CM riser with siphon breaker on LS shoulder.

LM Start	14.54	Rating **	U	Issue No.	25
LM End	14.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.691432 °	39.691432 °
				-121.778933 °	-121.778933 °
DWR ID	DWR_MA0005_02_s_2012_25				
Action/Comments					
Building					

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

**Flood Control Project Maintenance  
Levee Inspections**

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

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	14.82	Rating **	M	Issue No.	39
LM End	14.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.695204 °	39.695204 °
				-121.778557 °	-121.778557 °
DWR ID	DWR MA0005 02 s 2014 39				

**Action/Comments**

Inspector Comments: FS\_ID:24142

EP\_NO: 14519

Repair Type:

Crossing Status:

UCIP Comments: Pipe outlet buried and flap gate will not function 6/6/2013 Same as last inspection 11/13/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 24-inch Soil proofed steel storm drain pipeline through the levee 12-feet below the crown. Concrete headwall on LS toe, 4'X4' concrete box with slide gate on WS shoulder. Outlet with flap gate near stream 275-feet south east of concrete box on WS shoulder. (Permit No. 14519.)

FS Date: 11/14/2013 1:21:27 PM

Photo 1 of 2 : UCIP\_3985.jpg



Concrete box and gate on WS shoulder.

LM Start	14.82	Rating **	M	Issue No.	39 (cont)
LM End	14.82	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_3986.jpg



Location of pipe at outlet.

<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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/14/2014 04/14/2014	Bob Duffey

LM Start	15.71	Rating **	M	Issue No.	40
LM End	15.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.707544 °	39.707544 °
				-121.777701 °	-121.777701 °
DWR ID	DWR_MA0005_02_s _ 2014_40				
Action/Comments					
Inspector Comments: FS_ID:24145					

Photo 1 of 1 : UCIP\_3990.jpg



66-inch CMP riser on WS shoulder with slide gate.

LM Start	15.71	Rating **	M	Issue No.	41
LM End	15.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.707569 °	39.707569 °
				-121.777705 °	-121.777705 °
DWR ID	DWR_MA0005_02_s _ 2014_41				
Action/Comments					
Inspector Comments: FS_ID:24146					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Good candidate for video inspection 6/6/2013					
Same as last inspection. Need to construct cover for top of					
standpipe 11/13/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 2 of 2: 54-inch siphon pipe through the levee,					
17.8 feet below crown. Slide gate in 66-inch CMP riser on waterward					
side shoulder. Concrete headwall and irrigation ditch at the landward					
toe. Large structure in floodway likely related. (USCE 1958)					
FS Date: 11/14/2013 1:26:25 PM					

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

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway			Bank	Unit Miles
Unit No. 03 Little Chico Creek Diversion 1			Left	1.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/29/2014 - 04/29/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper 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 Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1	Left	1.50	04/29/2014 04/29/2014	Bob Duffey

LM Start	0.49	Rating **	A	Issue No.	1
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.723848 °	39.723848 °
				-121.780529 °	-121.780529 °
DWR ID	DWR_MA0005_03_s _ 2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey\_s\_20140505\_239.jpg



View of the native grasses on the landside slopes.

**\* 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