

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Spring 2015 Levee Inspection Results**

Sutter Maintenance Yard East Levee Sacramento River

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Left	20.31

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2015 - 03/11/2015			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	31
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			o	
DWR ID	DWR_ST0003_01_s_2013_31				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			o	
DWR ID	DWR_ST0003_01_s_2013_32				
Action/Comments					
Inspector Comments: The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	33
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			o	
DWR ID	DWR_ST0003_01_s_2013_33				
Action/Comments					
Inspector Comments: The LMA has completed flood fight training in 2014.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	27
LM End	11.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.266315 °	39.265730 °
				-122.020682 °	-122.014925 °
DWR ID	DWR_ST0003_01_f_2014_27				
Action/Comments					
Inspector Comments: 2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2013: No observed changes. [2013 Site ID: SAC_151-0_R]					

Photo 1 of 1 : SP_2015_ST0003_264_27_20150310_00011.jpg



USACE 2013 Photo #1

LM Start	0.15	Rating **	U	Issue No.	3
LM End	0.20	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194978 °	39.195022 °
				-121.937502 °	-121.938563 °
DWR ID	DWR_ST0003_01_s_2012_3				
Action/Comments					
Building					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	1.11	Rating **	U	Issue No.	1
LM End	1.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44135 DS_ID:17319 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Pipe leaks during times of High water. Slope damage still present. needs a more detailed inspection to find the leak. Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. 7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. 2/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 04/07/2015					

No Photos

LM Start	1.18	Rating **	U	Issue No.	34
LM End	1.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194105 °	39.194105 °
				121.953558 °	121.953558 °
DWR ID	DWR_ST0003_01_s_2013_34				
Action/Comments					
Pipe Inspector Comments: The pipe has rusted apart at the toe of the levee.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	3.79	Rating **	M	Issue No.	24
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					
Action/Comments					
<p>Inspector Comments: FS_ID:44167 DS_ID:17314 EP_NO: 9501 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depression. 12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in. 6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not locate pipe end on LS. Need to check for permit number for work done. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 04/07/2015</p>					

No Photos

LM Start	4.26	Rating **	M	Issue No.	11
LM End	4.26	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.208935 °	39.208935 °
				-121.985310 °	-121.985310 °
DWR ID	DWR_ST0003_01_s_ 2012_11				
Action/Comments					
Building					

Photo 1 of 1 : SP_2015_ST0003_264_11_20150310_00004.jpg



View of the trailer next to the W/S toe.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	4.72	Rating **	U	Issue No.	12
LM End	4.72	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.213265 °	39.213265 °	
			-121.991672 °	-121.991672 °	
DWR ID	DWR_ST0003_01_s_2012_12				
Action/Comments					
Building					

Photo 1 of 1 : SP_2015_ST0003_264_12_20150310_00005.jpg



View of the barn on the large crown of the levee.

LM Start	4.72	Rating **	M	Issue No.	15
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.213271 °	39.213271 °	
			-121.991676 °	-121.991676 °	
DWR ID	DWR_ST0003_01_s_2013_15				
Action/Comments					
Repair slope instability. Inspector Comments: The erosion needs to be repaired.					

Photo 1 of 1 : SP_2015_ST0003_264_15_20150406_00022.jpg



View of the erosion along the waterside slope.

LM Start	4.84	Rating **	U	Issue No.	20
LM End	4.84	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.214168 °	39.214168 °	
			-121.993515 °	-121.993515 °	
DWR ID	DWR_ST0003_01_s_2012_20				
Action/Comments					
Building					

Photo 1 of 1 : SP_2015_ST0003_264_20_20150310_00008.jpg



View of the building next to the L/S toe.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	4.85	Rating **	M	Issue No.	22
LM End	4.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.214218 °	39.214218 °
				-121.993682 °	-121.993682 °
DWR ID	DWR_ST0003_01_s_2012_22				
Action/Comments					
Landscaping					

No Photos

LM Start	4.85	Rating **	M	Issue No.	18
LM End	4.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.214215 °	39.214232 °
				-121.993810 °	-121.993805 °
DWR ID	DWR_ST0003_01_s_2012_18				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	4.98	Rating **	M	Issue No.	39
LM End	4.98	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44179 DS_ID:17287 EP_NO: 9520 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/6/2015 Same as last inspection. Still appears abandoned a concrete stand pipe and a CMP riser on WS. It seems abandoned and if so should be done so properly. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee 17.0 feet below the crown. Slide gate in CMP riser on the waterward slope. Pump on bank. Concrete standpipe on waterward berm. 18-inch concrete pipe from waterward toe to standpipe. Discharges into field on landward side. (ABO No. 9520 - Arnold). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	4.99	Rating **	U	Issue No.	40
LM End	4.99	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44182 DS_ID:17289 EP_NO: 2904 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Repairs are in progress to this crossing surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS 2/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete 12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe 6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	5.10	Rating **	M	Issue No.	41
LM End	5.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.215409 °	39.215409 °
				-121.999061 °	-121.999061 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44187 DS_ID:17291 EP_NO: 4091 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/6/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on 5/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee 4.0 feet below the crown. Pump on bank. Gate valve in concrete pipe riser on waterward shoulder. (App. No. 4091 - Halsey). FS Date: 04/07/2015					

No Photos

LM Start	5.38	Rating **	U	Issue No.	42
LM End	5.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.217099 °	39.217099 °
				-122.003778 °	-122.003778 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44207 DS_ID:17293 EP_NO: 9514 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/1/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season. Water transfer ditch and CMP riser on WS 23/13 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stem on WS screw gate is bent 2/18/2013 Same as last inspection. Levee inspections is working with land owner to solve this issue 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate in corrugated metal pipe riser. Concrete headwall on waterward berm, pump on riverbank. Discharges in field at landward toe. Irrigation ditch across waterward berm to headwall. (ABO No. 9514 - Boggs). Pipe invert 11.0 ft below crown. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	6.38	Rating **	M	Issue No.	53
LM End	6.38	Issue Type +	En	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223563 °	39.223563 °
				-121.999048 °	-121.999048 °
DWR ID	DWR_ST0003_01_s_2014_53				
Action/Comments					
Prunings					

Photo 1 of 1 : SP_2015_ST0003_264_53_20150310_00016.jpg



View of the prunings along the landside toe.

LM Start	6.48	Rating **	M	Issue No.	21
LM End	6.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.224982 °	39.225013 °
				-121.998600 °	-121.998585 °
DWR ID	DWR_ST0003_01_s_2012_21				
Action/Comments					
Material					

Photo 1 of 1 : SP_2015_ST0003_264_21_20150310_00009.jpg



View of the material & garbage along the toe.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	6.58	Rating **	M	Issue No.	45
LM End	6.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.226991 °	39.226991 °
				-121.999907 °	-121.999907 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44211 DS_ID:17296 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Only cmp riser with screwgate found on WS. Screwgate stem is bent, appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS 2/18/2013 Same as last inspection 2/23/2013 Same as last inspection 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee 13.5 feet below the crown. Slide gate in corrugated metal pipe riser on waterward slope. (ABO No. 9530 - Halsey). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

LM Start	6.78	Rating **	U	Issue No.	14
LM End	6.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.228535 °	39.228535 °
				-121.998330 °	-121.998330 °
DWR ID	DWR_ST0003_01_s_2015_14				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: The erosion along the waterside slope needs to be repaired.					

Photo 1 of 1 : SP_2015_ST0003_264_14_20150406_00023.jpg



View of the erosion along the waterside slope.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	6.89	Rating **	M	Issue No.	46
LM End	6.89	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229670 °	39.229670 °
				-121.996313 °	-121.996313 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44216 DS_ID:17298 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/1/2015 Unable to locate. Need to determine status of crossing. 7/23/2013 Same as last inspection. Unable to locate. 12/18/2013 Unable to locate. 6/30/2014 Unable to locate. FIELD_STRUCT_DESC: 2-1/2 inch gas line pipes through the levee 1.0 foot below the crown, from gas storage tanks on landward side. FS Date: 04/07/2015					

No Photos

LM Start	7.58	Rating **	M	Issue No.	47
LM End	7.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.238153 °	39.238153 °
				-121.995024 °	-121.995024 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44224 DS_ID:17300 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Only cmp riser and slide gate found on WS. Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 7/23/2013 Same as last inspection. 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch corrugated metal drainpipe through the levee 14.5 feet below the crown. Slide gate in concrete surge box on berm. Slide gate in corrugated metal pipe riser and pump on the waterward slope. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	7.72	Rating **	M	Issue No.	48
LM End	7.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239458 °	39.239458 °
				-121.993398 °	-121.993398 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44226 DS_ID:17301 EP_NO: 9532 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS. Silted concrete box on WS. Depression/erosion around concrete box on WS. 12/23/2013 Same as last inspection. 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 3-foot by 4-foot concrete box culvert drain through the levee 11.6 feet below the crown. Slide gate in concrete box on the waterward slope. (ABO No. 9532 - Martin). O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

LM Start	8.32	Rating **	M	Issue No.	49
LM End	8.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44229 DS_ID:17304 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 CMP riser and slidegate on WS. LS distribution box is silted looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. 12/23/2013 Same as last inspection. 12/18/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch) O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	8.52	Rating **	U	Issue No.	50
LM End	8.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.249125 °	39.249125 °
				-121.999031 °	-121.999031 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44243 DS_ID:17295 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil. Only a CMP riser with slide gate found on WS/23/2013 Same as last inspection 12/18/2013 Same as last inspection 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch irrigation and drain pipe through the levee. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe invert 11.50 ft below the crown. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

LM Start	8.56	Rating **	M	Issue No.	51
LM End	8.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.249678 °	39.249678 °
				-121.999021 °	-121.999021 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44245 DS_ID:17327 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/1/2015 Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found 7/23/2013 Same as last inspection 12/18/2013 Same as last inspection 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch corrugated metal drainpipe through the levee 12.5 feet below the crown. Slide gate on waterward end. O&M manual 136, revision May 2011. FS Date: 04/07/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	8.74	Rating **	M	Issue No.	52
LM End	8.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.252121 °	39.252121 °
				-121.997740 °	-121.997740 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41798 DS_ID:17353 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Slide gate found on WS toe. Pipe appears to be abandoned and if so should be done so properly 7/23/2013 Same as last inspection 12/18/2013 Same as last inspection 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 4-inch steel pipe sleeved through 24-inch corrugated metal pipe 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterward end. Gate valve at the landward toe. O&M manual 136, revision May 2011. FS Date: 07/08/2014					

No Photos

LM Start	8.75	Rating **	U	Issue No.	2
LM End	8.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.252260 °	39.252260 °
				-121.997721 °	-121.997721 °
DWR ID	DWR_ST0003_01_s_2012_2				
Action/Comments					
Building					

Photo 1 of 1 : SP_2015_ST0003_264_2_20150310_00001.jpg



View of the building next to the toe of the levee.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	10.27	Rating **	M	Issue No.	4
LM End	10.27	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.270431 °	39.270431 °	
			-121.999782 °	-121.999782 °	
DWR ID	DWR_ST0003_01_s_2012_4				
Action/Comments					
Building					

No Photos

LM Start	10.36	Rating **	M	Issue No.	5
LM End	10.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.270503 °	39.270503 °	
			-122.001339 °	-122.001339 °	
DWR ID	DWR_ST0003_01_s_2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	10.51	Rating **	M	Issue No.	54
LM End	10.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.271928 °	39.271928 °
				-122.003422 °	-122.003422 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44447 DS_ID:17371 EP_NO: 9517 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection Need to verify type of abandonment. Pump house not found on waterside of the levee. Looks abandoned as switch panel found without pump. 7/23/2013 Same as last inspection 12/18/2013 Same as last inspection 7/23/2013 Same as last inspection 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 17.1 feet below the crown. Gate valve and flap gate in concrete distribution box. Water meter in corrugated metal pipe riser at the landward toe and gate valve in corrugated metal pipe on waterside. Pipe was replaced in November 2005. (ABO No. 9517 - Griffin). O&M manual 136, revision May 2011. FS Date: 04/15/2015					

No Photos

LM Start	10.69	Rating **	M	Issue No.	59
LM End	10.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.274090 °	39.274090 °
				-122.005263 °	-122.005263 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44449 DS_ID:17350 EP_NO: 1369 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris. 7/23/2013 Same as last inspection 12/18/2013 Same as last inspection 7/23/2013 Same as last inspection 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 4.0 feet below the crown. Siphon breaker on the landward slope. Concrete distribution box at the landward toe. (App. No. 1369 - Griffin). Application approval date: 02/16/1949. O&M manual 136, revision May 2011. FS Date: 04/15/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	11.51	Rating **	M	Issue No.	28
LM End	11.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID	DWR_ST0003_01_f_2014_28				
Action/Comments					
Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. 2013: No observed changes. [2013 Site ID: SAC_152-6_L]					

Photo 1 of 1 : SP_2015_ST0003_264_28_20150310_00012.jpg



USACE 2013 Photo #1

LM Start	11.67	Rating **	M	Issue No.	6
LM End	11.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.282064 °	39.285084 °
				-122.016517 °	-122.014815 °
DWR ID	DWR_ST0003_01_s_2012_6				
Action/Comments					
Ditch					

No Photos

LM Start	11.85	Rating **	M	Issue No.	29
LM End	11.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.284568 °	39.285298 °
				-122.015690 °	-122.015208 °
DWR ID	DWR_ST0003_01_f_2014_29				
Action/Comments					
Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion. 2013: No observed changes. [2013 Site ID: SAC_152-8_L]					

Photo 1 of 1 : SP_2015_ST0003_264_29_20150310_00013.jpg



USACE 2013 Photo #1

* 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 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	11.94	Rating **	M	Issue No.	7
LM End	12.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.285658 °	39.288978 °
				-122.014574 °	-122.013892 °
DWR ID	DWR_ST0003_01_s_2012_7				
Action/Comments					
Ditch					

No Photos

LM Start	12.06	Rating **	M	Issue No.	60
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44465 DS_ID:17365 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silt. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. 7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition. 12/30/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	12.43	Rating **	U	Issue No.	61
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44466 DS_ID:17366 EP_NO: 9513 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. 7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. 12/30/2013 Same as last inspection. 7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

LM Start	12.56	Rating **	U	Issue No.	62
LM End	12.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44468 DS_ID:17367 EP_NO: 2971 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Pipe has as small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. 7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugate metal pipe through the levee, 20.0 feet below the crown. Slide gate at the waterward end. Two slant pumps on bank discharging into concrete distribution box at the waterward toe. Switch panel on the waterward side. (App. No. 2971 - Terhel). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	12.96	Rating **	U	Issue No.	63
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.300140 °	39.300140 °	
			-122.013599 °	-122.013599 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44473 DS_ID:17369 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection 7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present 2/19/2013 Same as last inspection 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

LM Start	13.37	Rating **	M	Issue No.	64
LM End	13.37	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.306065 °	39.306065 °	
			-122.013112 °	-122.013112 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44474 DS_ID:17340 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Pipe has been selected for internal camera inspection. Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned 7/23/2013 Same as last inspection 12/19/2013 Same as last inspection 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	14.55	Rating **	U	Issue No.	66
LM End	14.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44478 DS_ID:17331 EP_NO: 1833 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Leaks during high water.Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser/23/2013 Same as last inspection/19/2013 Same as last inspection/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 42-inch corrugated metal pipe through the levee, 14.2 feet below the crown. Pump structure on the riverbank. Concrete surge box at the waterward toe. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete distribution box on the landward side across River Road. (App. No. 1833 - Westfall). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

LM Start	14.56	Rating **	U	Issue No.	25
LM End	14.56	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.322254 °	39.322254 °
				-122.015985 °	-122.015985 °
DWR ID	DWR_ST0003_01_s_ 2013_25				
Action/Comments					
Pipe					

Photo 1 of 1 : SP_2015_ST0003_264_25_20150310_00010.jpg



View of the unauthorized pipe placed inside the drain pipe.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	15.53	Rating **	M	Issue No.	55
LM End	15.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID	DWR_ST0003_01_f_2014_55				
Action/Comments					
Inspector Comments: 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour. 2013: No observed changes. [2013 Site ID: SAC_157-7_R]					

Photo 1 of 1 : SP_2015_ST0003_264_55_20150310_00017.jpg



USACE 2013 Photo #1

LM Start	15.79	Rating **	M	Issue No.	67
LM End	15.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.338029 °	39.338029 °
				-122.022711 °	-122.022711 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44481 DS_ID:17334 EP_NO: 2599 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing. 7/23/2013 Same as last inspection. Unable to locate. 12/19/2013 Unable to locate. 7/2/2014 Unable to locate. FIELD_STRUCT_DESC: 2-3/8 inch unwrapped steel high pressure gas line through the levee, 2.6 feet below the crown. (App. No. 2599 - PG&E). FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	16.11	Rating **	M	Issue No.	68
LM End	16.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341653 °	39.341653 °
				-122.023908 °	-122.023908 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44482 DS_ID:17335 EP_NO: 2651 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing. 7/23/2013 Same as last inspection. Unable to locate. 4/2/2013 Unable to locate. 2/2/2014 Unable to locate. FIELD_STRUCT_DESC: 2-3/8 inch unwrapped steel gas line through the levee, 2.6 feet below the crown. Waterward bank rock revetted, 1957. (Permit No. 2651 - PG&E). FS Date: 04/16/2015					

No Photos

LM Start	16.20	Rating **	M	Issue No.	69
LM End	16.20	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342905 °	39.342905 °
				-122.024215 °	-122.024215 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44483 DS_ID:17336 EP_NO: 2651 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate. Need to contact owner to determine status and location of crossing. 7/23/2013 Same as last inspection. Unable to locate. 4/2/2013 Unable to locate. 2/2/2014 Unable to locate. FIELD_STRUCT_DESC: 2-3/8 inch unwrapped steel gas line through the levee, 2.5 feet below the crown. (Permit No. 2651 - PG&E). FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	16.21	Rating **	A/W	Issue No.	56
LM End	16.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.342948 °	39.342948 °	
			-122.024263 °	-122.024263 °	
DWR ID	DWR_ST0003_01_f_2014_56				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_ST0003_264_56_20150310_00018.jpg



View of the rodent holes on the landside slope.

LM Start	16.42	Rating **	M	Issue No.	70
LM End	16.42	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.345635 °	39.345635 °	
			-122.022915 °	-122.022915 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44485 DS_ID:17349 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/2/2015 WS slide gate and LS distribution box are still silted over. Seems abandoned as slide gate and distribution box silted 7/23/2013. Same as last inspection 12/19/2013. Same as last inspection 7/2/2014. Same as last inspection. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal irrigation and drain pipe through the levee, 17.0 feet below the crown. Slide gate on the waterward end. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months. Discharges into concrete distribution box at the landward toe. O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	16.95	Rating **	M	Issue No.	36
LM End	16.95	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.347308 °	39.347308 °	
			-122.015264 °	-122.015264 °	
DWR ID	DWR_ST0003_01_f_2012_36				
Action/Comments					
Prunings					

Photo 1 of 1 : SP_2015_ST0003_264_36_20150310_00015.jpg



View of the brush pile along the landside toe.

LM Start	17.42	Rating **	M	Issue No.	30
LM End	17.42	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.351311 °	39.351311 °	
			-122.009409 °	-122.009409 °	
DWR ID	DWR_ST0003_01_s_2013_30				
Action/Comments					
Prunings					

Photo 1 of 1 : SP_2015_ST0003_264_30_20150310_00014.jpg



View of the walnut orchard stumps along the landside toe.

LM Start	17.43	Rating **	M	Issue No.	136
LM End	17.43	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.351447 °	39.351447 °	
			-122.009385 °	-122.009385 °	
DWR ID	DWR_ST0003_01_f_2013_136				
Action/Comments					
Prunings					

Photo 1 of 1 : SP_2015_ST0003_264_136_20150310_00021.jpg



View of the prunings at the toe of the levee.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	17.44	Rating **	M	Issue No.	57
LM End	17.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.351553 °	39.351553 °	
			-122.009388 °	-122.009388 °	
DWR ID	DWR_ST0003_01_f_2014_57				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_ST0003_264_57_20150310_00019.jpg



View of the rodent holes on the landside slope.

LM Start	17.67	Rating **	M	Issue No.	58
LM End	17.74	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.354862 °	39.355885 °	
			-122.009292 °	-122.009030 °	
DWR ID	DWR_ST0003_01_f_2014_58				
Action/Comments					
Firewood					

Photo 1 of 1 : SP_2015_ST0003_264_58_20150310_00020.jpg



View of the firewood along the landside slope.

LM Start	17.97	Rating **	M	Issue No.	10
LM End	18.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.358956 °	39.359565 °	
			-122.007492 °	-122.006219 °	
DWR ID	DWR_ST0003_01_s_2012_10				
Action/Comments					
Firewood					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	18.23	Rating **	M	Issue No.	74
LM End	18.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359948 °	39.359948 °
				-122.003591 °	-122.003591 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44492 DS_ID:17344 EP_NO: 12930A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing. 7/24/2013 Same as last inspection. Unable to locate. 12/19/2013 Unable to locate. 7/2/2014 Unable to locate. FIELD_STRUCT_DESC: 3 1/2-inch steel gas pipe through levee, 2 feet below the crown. (Permit No. 12930-A - Jordan Gas Co. 9/81). FS Date: 04/16/2015					

No Photos

LM Start	18.65	Rating **	U	Issue No.	75
LM End	18.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362866 °	39.362866 °
				-121.997993 °	-121.997993 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44494 DS_ID:17345 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection. 6/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing. FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe. O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	18.74	Rating **	M	Issue No.	76
LM End	18.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44495 DS_ID:17346 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection. According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil. 2/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: A 8-inch steel pipe sleeved into 24- inch corrugated metal drain pipe through the levee, 19.0 feet below the crown. Slide gate at waterward toe and concrete inlet box on landside of the levee. O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

LM Start	19.62	Rating **	M	Issue No.	77
LM End	19.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44500 DS_ID:17487 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing. 2/24/2013 Same as last inspection. 12/19/2013 Same as last inspection. 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown. O&M manual 136, revision May 2011. FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.31	03/11/2015 03/11/2015	Bob Duffey

LM Start	20.04	Rating **	M	Issue No.	78
LM End	20.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:44501 DS_ID:17370 EP_NO: 9496 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/2/2015 Same as last inspection Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing 7/24/2013 Same as last inspection 12/19/2013 Same as last inspection 7/2/2104 Same as last inspection. FIELD_STRUCT_DESC: 20-inch corrugated metal pipe through the levee, 19.8 feet below the crown. Two vertical pumps on pile structure on the waterward bank. Slide gate in concrete surge box on the waterward berm. Discharges into concrete distribution box on the landward side across the county road. Switch board on platform on bank. (ABO No. 9496 Womble). O&M manual 136, revision May 2011. FS Date: 04/16/2015					

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

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 02 Colusa Bypass	Right	2.20

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2015 - 03/11/2015			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/11/2015 03/11/2015	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	1
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.232058 °	39.232058 °	
			-121.995514 °	-121.995514 °	
DWR ID	DWR_ST0003_02_s_2012_1				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_ST0003_265_1_20150310_00001.jpg



View of the elderberries along the landside toe of the levee.

LM Start	0.60	Rating **	M	Issue No.	2
LM End	0.60	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.231402 °	39.231402 °	
			-121.984845 °	-121.984845 °	
DWR ID	DWR_ST0003_02_s_2015_2				
Action/Comments					
Debris					

Photo 1 of 1 : SP_2015_ST0003_265_2_20150406_00002.jpg



View of the debris along the waterside toe.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/11/2015 03/11/2015	Bob Duffey

LM Start	1.20	Rating **	M	Issue No.	3
LM End	1.20	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229526 °	39.229526 °
				-121.975686 °	-121.975686 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44506 DS_ID:17531 EP_NO: 13534 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/6/2015 Same as last inspection May need to add more substantial gasline marker 3/22/2013 Same as last inspection 12/19/2013 Same as last inspection 7/7/2014 Same as last inspection. FIELD_STRUCT_DESC: 2-1/2 inch steel gas pipeline through the levee 2.5 feet below the crown. (13534 - Texaco Incorporated). A gasline indicator found on LS. FS Date: 04/16/2015					

No Photos

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

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 03 Colusa Bypass	Left	2.29

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2015 - 03/11/2015			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	03/11/2015 03/11/2015	Bob Duffey

LM Start	0.61	Rating **	M	Issue No.	1
LM End	0.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.237432 °	39.237432 °
				-121.983035 °	-121.983035 °
DWR ID	DWR_ST0003_03_s_2015_1				
Action/Comments					
Tree or limb Inspector Comments: Remove the tree from the waterside toe.					

Photo 1 of 1 : SP_2015_ST0003_266_1_20150406_00002.jpg



View of the tree along the waterside toe.

LM Start	1.03	Rating **	M	Issue No.	3
LM End	1.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239306 °	39.239306 °
				-121.975797 °	-121.975797 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44507 DS_ID:17557 EP_NO: 15821 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/6/2015 Same as last inspection May need to add additional gasoline marker 3/22/2013 Same as last inspection 12/19/2013 Same as last inspection 7/7/2014 Same as last inspection. FIELD_STRUCT_DESC: Two of three gaslines. 3- 4-inch natural gas pipeline under both levees and the Colusa Bypass with a distance of 12 inches between them and two inches on either side of the trench. Only one gasoline indicator found on LS. FS Date: 04/16/2015					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	03/11/2015 03/11/2015	Bob Duffey

LM Start	1.94	Rating **	M	Issue No.	10
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.244888 °	39.244888 °	
			-121.965595 °	-121.965595 °	
DWR ID	DWR_ST0003_03_s_2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_ST0003_266_10_20150310_00001.jpg



View of the elderberries along the landside toe of the levee.

LM Start	2.13	Rating **	M	Issue No.	2
LM End	2.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.244925 °	39.244925 °	
			-121.962072 °	-121.962072 °	
DWR ID	DWR_ST0003_03_s_2015_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_ST0003_266_2_20150406_00003.jpg



View of the elderberry along the waterside slope.

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

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 04 Moulton Bypass	Right	0.30

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2015 - 03/11/2015			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	03/11/2015 03/11/2015	Bob Duffey

LM Start	0.10	Rating **	A	Issue No.	2
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.337787 °	39.337787 °
				-122.020380 °	-122.020380 °
DWR ID	DWR_ST0003_04_s_2015_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_ST0003_267_2_20150310_00001.jpg



View of an elderberry bush by the waterside toe.

LM Start	0.10	Rating **	A	Issue No.	1
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				
DWR ID	DWR_ST0003_04_s_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_ST0003_267_1_20150406_00002.jpg



View of the native grasses on both slopes.

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

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 05 Moulton Bypass	Left	2.19

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2015 - 03/11/2015			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	03/11/2015 03/11/2015	Bob Duffey

LM Start	0.77	Rating **	A	Issue No.	1
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.340798 °	39.340798 °
				-122.009498 °	-122.009498 °
DWR ID	DWR_ST0003_05_s_2015_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_ST0003_268_1_20150406_00001.jpg



View of the native grasses on both slopes.

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