Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	**10**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			° °	° °
DWR ID	DWR_ST0010_01_s _ 2013_10				

Comment Code

Inspector Comment

The LMA has the O&M manuals.

No Photos

LM Start		Rating **	A	Issue No.	**11**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			° °	° °
DWR ID	DWR_ST0010_01_s _ 2013_11				

Comment Code

Inspector Comment

The LMA has flood fight supplies and equipment.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	**12**		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_ST0010_01_s _ 2013_12						

Comment Code

Inspector Comment

The LMA completed flood fight training in 2014.

No Photos

LM Start	**0.06**	Rating **	M	Issue No.	**20**		
LM End	**0.12**	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Erosion / Bank Caving			39.114203	°	39.114842	°
				-121.768015	°	-121.767382	°
DWR ID	DWR_ST0010_01_f _ 2016_20						

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion along the waterside toe.

Photo 1 of 1 : SP_2018_ST0010_42_20_20180305_00013.jpg

View of the erosion along the waterside toe.

LM Start	**0.38**	Rating **	M	Issue No.	**19**		
LM End	**0.38**	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Erosion / Bank Caving			39.117910	°	39.117910	°
				-121.764497	°	-121.764497	°
DWR ID	DWR_ST0010_01_f _ 2016_19						

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion along the waterside toe.

Photo 1 of 1 : SP_2018_ST0010_42_19_20180305_00012.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**0.50**	Rating **	U	Issue No.	**22**
LM End	**0.50**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.119348 °	39.119348 °
				-121.763120 °	-121.763120 °
DWR ID	DWR_ST0010_01_f _ 2017_22				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the beaver hole along the waterside berm.

Photo 1 of 1 : SP_2018_ST0010_42_22_20180305_00014.jpg

View of the beaver hole along the waterside berm.

LM Start	**0.56**	Rating **	M	Issue No.	**18**
LM End	**0.56**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.119985 °	39.119985 °
				-121.762600 °	-121.762600 °
DWR ID	DWR_ST0010_01_s _ 2017_18				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the erosion along the water side toe.

Photo 1 of 1 : SP_2018_ST0010_42_18_20180305_00011.jpg

View of the erosion along the waterside toe caused by a tree that fell into the water.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**1.75**	Rating **	M	Issue No.	**7**
LM End	**2.39**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.133887 °	39.141757 °
				-121.749526 °	-121.742939 °
DWR ID	DWR_ST0010_01_s _ 2016_7				

Comment Code

Inspector Comment

2011 - Whole bank is starting to unravel, with failure from poor soils. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-1_L]

No Photos

LM Start	**1.76**	Rating **	M	Issue No.	**23**
LM End	**1.76**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.133978 °	39.133978 °
				-121.749327 °	-121.749327 °
DWR ID	DWR_ST0010_01_f _ 2017_23				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Repair the rodent holes along the waterside slope.

Photo 1 of 1 : SP_2018_ST0010_42_23_20180305_00015.jpg

View of the rodent holes along the waterside slope.

LM Start	**1.85**	Rating **	U	Issue No.	**107**
LM End	**1.85**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.135110 °	39.135110 °
				-121.748230 °	-121.748230 °
DWR ID	DWR_ST0010_01_f _ 2013_107				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the erosion under the abandoned pump.

Photo 1 of 3 : SP_2018_ST0010_42_107_20180305_00017.jpg

View of the erosion along both sides of the abandoned pump.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**1.85**	Rating **	U	Issue No.	**107 (cont)**
LM End	**1.85**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.135110 °	39.135110 °
				-121.748230 °	-121.748230 °
DWR ID	DWR_ST0010_01_f _ 2013_107				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the erosion under the abandoned pump.

Photo 2 of 3 : SP_2018_ST0010_42_107_20180305_00018.jpg

View of the erosion along both sides of the abandoned pump.

LM Start	**1.85**	Rating **	U	Issue No.	**107 (cont)**
LM End	**1.85**	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2018_ST0010_42_107_20180305_00019.jpg

View of erosion along both sides of the abandoned pipe.

LM Start	**1.85**	Rating **	M	Issue No.	**106**
LM End	**1.85**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.135110 °	39.135110 °
				-121.748229 °	-121.748229 °
DWR ID	DWR_ST0010_01_f _ 2013_106				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : SP_2018_ST0010_42_106_20180305_00016.jpg

View of the rodent holes under the irrigation pipe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**2.07**	Rating **	A	Issue No.	**21**
LM End	**2.07**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.137720 °	39.137720 °
				-121.746115 °	-121.746115 °
DWR ID	DWR_ST0010_01_s _ 2018_21				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

LMA should continue to manage the native grasses on both slopes.

Photo 1 of 1 : SP_2018_ST0010_42_21_20180403_00035.jpg

View of the native grasses on both slopes.

LM Start	**2.43**	Rating **	M	Issue No.	**6**
LM End	**3.30**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_f _ 2015_6				

Comment Code

Inspector Comment

2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-4_L]

Photo 1 of 4 : SP_2018_ST0010_42_6_20180305_00006.jpg

View of the erosion along the waterside toe.

LM Start	**2.43**	Rating **	M	Issue No.	**6 (cont)**
LM End	**3.30**	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP_2018_ST0010_42_6_20180305_00007.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**2.43**	Rating **	M	Issue No.	**6 (cont)**
LM End	**3.30**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_f _ 2015_6				

Comment Code

Inspector Comment

2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-4_L]

Photo 3 of 4 : SP_2018_ST0010_42_6_20180305_00008.jpg

View of the erosion along the waterside toe.

LM Start	**2.43**	Rating **	M	Issue No.	**6 (cont)**
LM End	**3.30**	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP_2018_ST0010_42_6_20180305_00009.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**3.04**	Rating **	M	Issue No.	**111**
LM End	**3.04**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.149549 °	39.149549 °
				-121.736408 °	-121.736408 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51500
DS_ID:17065
EP_NO: 7209
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/10/2017 Ws pipe end is in good condition. LS pipe end is still deformed and vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch, USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)].
FS Date: 4/12/2017 9:39:10 AM

Photo 1 of 3 : UCIP_SP_2018_51500_64718.jpg

36-inch pipe with flapgate on WS slope.

LM Start	**3.04**	Rating **	M	Issue No.	**111 (cont)**
LM End	**3.04**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51500_64717.jpg

Inlet in weeds on LS toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**3.04**	Rating **	M	Issue No.	**111 (cont)**
LM End	**3.04**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.149549 °	39.149549 °
				-121.736408 °	-121.736408 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51500
DS_ID:17065
EP_NO: 7209
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/10/2017 Ws pipe end is in good condition. LS pipe end is still deformed and vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch, USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)].
FS Date: 4/12/2017 9:39:10 AM

Photo 3 of 3 : UCIP_SP_2018_51500_64716.jpg

Pipe inlet heavily shielded by vegetation.

LM Start	**3.53**	Rating **	M	Issue No.	**3**
LM End	**3.56**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.156225 °	39.156639 °
				-121.732930 °	-121.732755 °
DWR ID	DWR_ST0010_01_s _ 2012_3				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion along the waterside toe.

Photo 1 of 1 : SP_2018_ST0010_42_3_20180305_00001.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**3.65**	Rating **	M	Issue No.	**4**
LM End	**3.65**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.157861 °	39.157861 °
				-121.732238 °	-121.732238 °
DWR ID	DWR_ST0010_01_s _ 2012_4				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion along the waterside toe.

Photo 1 of 2 : SP_2018_ST0010_42_4_20180305_00002.jpg

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

LM Start	**3.65**	Rating **	M	Issue No.	**4 (cont)**
LM End	**3.65**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_ST0010_42_4_20180305_00003.jpg

View of the erosion along the waterside toe.

LM Start	**3.84**	Rating **	M	Issue No.	**17**
LM End	**3.96**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.160442 °	39.162235 °
				-121.731067 °	-121.730912 °
DWR ID	DWR_ST0010_01_f _ 2014_17				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion along the waterside toe.

Photo 1 of 1 : SP_2018_ST0010_42_17_20180305_00010.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	03/29/2018 03/29/2018	Bob Duffey

LM Start	**4.23**	Rating **	M	Issue No.	**5**
LM End	**4.23**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.165845 °	39.165845 °
				-121.728877 °	-121.728877 °
DWR ID	DWR_ST0010_01_s _ 2012_5				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion along the waterside toe.

Photo 1 of 2 : SP_2018_ST0010_42_5_20180305_00004.jpg

View of the erosion along the waterside toe.

LM Start	**4.23**	Rating **	M	Issue No.	**5 (cont)**
LM End	**4.23**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_ST0010_42_5_20180305_00005.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**1.16**	Rating **	U	Issue No.	**19**
LM End	**1.16**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.127527 °	39.127527 °
				-121.756493 °	-121.756493 °
DWR ID	DWR_ST0010_02_f _ 2016_19				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Repair the rodent holes along the waterside slope.

Photo 1 of 1 : SP_2018_ST0010_43_19_20180305_00014.jpg

View of the rodent holes along the waterside slope.

LM Start	**1.74**	Rating **	M	Issue No.	**10**
LM End	**2.37**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.134064 °	39.141814 °
				-121.749781 °	-121.743260 °
DWR ID	DWR_ST0010_02_s _ 2016_10				

Comment Code

Inspector Comment

2011 - Whole bank is starting to unravel, with failure from poor soils. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-1_R]

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**1.75**	Rating **	M	Issue No.	**20**
LM End	**1.75**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.134378 °	39.134378 °
				-121.749803 °	-121.749803 °
DWR ID	DWR_ST0010_02_f _ 2016_20				

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Ramp is causing depression in the levee slope.

Photo 1 of 1 : SP_2018_ST0010_43_20_20180305_00015.jpg

View the ramp encroaching into the levee.

LM Start	**1.76**	Rating **	M	Issue No.	**11**
LM End	**1.76**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.134490 °	39.134490 °
				-121.749716 °	-121.749716 °
DWR ID	DWR_ST0010_02_f _ 2012_11				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Repair the rodent hole.

Photo 1 of 2 : SP_2018_ST0010_43_11_20180305_00011.jpg

View of the rodent holes above the irrigation pipe.

LM Start	**1.76**	Rating **	M	Issue No.	**11 (cont)**
LM End	**1.76**	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_ST0010_43_11_20180305_00012.jpg

View of the rodent hole above the irrigation pipe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**2.41**	Rating **	M	Issue No.	**8**
LM End	**3.28**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.142254 °	39.153150 °
				-121.742847 °	-121.734611 °
DWR ID	DWR_ST0010_02_s _ 2016_8				

Comment Code

Inspector Comment

2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-4_R]

Photo 1 of 2 : SP_2018_ST0010_43_8_20180305_00007.jpg

View of erosion along the waterside toe.

LM Start	**2.41**	Rating **	M	Issue No.	**8 (cont)**
LM End	**3.28**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_ST0010_43_8_20180305_00008.jpg

View of the erosion along the landside toe.

LM Start	**2.95**	Rating **	M	Issue No.	**21**
LM End	**2.95**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f _ 2016_21				

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Ramp is causing depression in the levee slope.

Photo 1 of 1 : SP_2018_ST0010_43_21_20180305_00016.jpg

View the ramp encroaching into the levee.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**3.00**	Rating **	M	Issue No.	**26**
LM End	**3.00**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.149561 °	39.149561 °
				-121.737080 °	-121.737080 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51515
DS_ID:17077
EP_NO: 7209
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/10/2017 Tree still present and a problem at the WS pipe outlet. LS inlet is still vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe, O&M pipe replaced with new 30-inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)].
FS Date: 4/12/2017 10:16:27 AM

Photo 1 of 3 : UCIP_SP_2018_51515_64744.jpg

Bush camoflauging outlet of pipe on WS slope.

LM Start	**3.00**	Rating **	M	Issue No.	**26 (cont)**
LM End	**3.00**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51515_64743.jpg

Heavy vegetation at LS inlet at channel.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**3.00**	Rating **	M	Issue No.	**26 (cont)**
LM End	**3.00**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.149561 °	39.149561 °
				-121.737080 °	-121.737080 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51515
DS_ID:17077
EP_NO: 7209
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/10/2017 Tree still present and a problem at the WS pipe outlet. LS inlet is still vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe, O&M pipe replaced with new 30-inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)].
FS Date: 4/12/2017 10:16:27 AM

Photo 3 of 3 : UCIP_SP_2018_51515_64742.jpg

Pipe and flap gate at WS outlet.

LM Start	**3.35**	Rating **	A	Issue No.	**17**
LM End	**3.35**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.154083 °	39.154083 °
				-121.734322 °	-121.734322 °
DWR ID	DWR_ST0010_02_s _ 2018_17				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

LMA should continue to maintain the native grasses on both slopes.

Photo 1 of 1 : SP_2018_ST0010_43_17_20180403_00037.jpg

View of the native grasses on both slopes.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**3.42**	Rating **	M	Issue No.	**4**
LM End	**3.42**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.155057 °	39.155057 °
				-121.733985 °	-121.733985 °
DWR ID	DWR_ST0010_02_s _ 2012_4				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion at the waterside toe.

Photo 1 of 2 : SP_2018_ST0010_43_4_20180305_00001.jpg

View of the erosion at the waterside toe.

LM Start	**3.42**	Rating **	M	Issue No.	**4 (cont)**
LM End	**3.42**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_ST0010_43_4_20180305_00002.jpg

View of the erosion at the waterside toe.

LM Start	**3.54**	Rating **	M	Issue No.	**5**
LM End	**3.93**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.156753 °	39.162113 °
				-121.733267 °	-121.730997 °
DWR ID	DWR_ST0010_02_s _ 2012_5				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor is the erosion at the waterside toe.

Photo 1 of 2 : SP_2018_ST0010_43_5_20180305_00003.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**3.54**	Rating **	M	Issue No.	**5 (cont)**
LM End	**3.93**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.156753 °	39.162113 °
				-121.733267 °	-121.730997 °
DWR ID	DWR_ST0010_02_s _ 2012_5				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor is the erosion at the waterside toe.

Photo 2 of 2 : SP_2018_ST0010_43_5_20180305_00004.jpg

View of erosion at the waterside toe

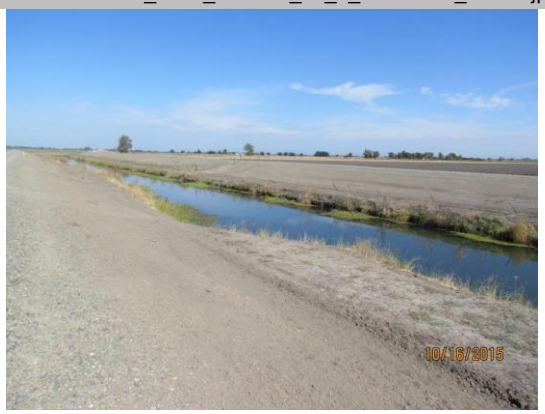
LM Start	**4.41**	Rating **	M	Issue No.	**9**
LM End	**4.43**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.168659 °	39.168937 °
				-121.728016 °	-121.727905 °
DWR ID	DWR_ST0010_02_s _ 2016_9				

Comment Code

Inspector Comment

2011 - Small erosion pocket. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_4-3_R]

Photo 1 of 2 : SP_2018_ST0010_43_9_20180305_00009.jpg



View of the erosion along the waterside toe.

LM Start	**4.41**	Rating **	M	Issue No.	**9 (cont)**
LM End	**4.43**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_ST0010_43_9_20180305_00010.jpg

View of the erosion along the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	03/29/2018 03/29/2018	Bob Duffey

LM Start	**4.47**	Rating **	M	Issue No.	**7**
LM End	**4.49**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.169532 °	39.169800 °
				-121.727860 °	-121.727703 °
DWR ID	DWR_ST0010_02_s _ 2012_7				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Monitor the erosion along the waterside toe.

Photo 1 of 2 : SP_2018_ST0010_43_7_20180305_00005.jpg

View of the erosion along the W/S toe.

LM Start	**4.47**	Rating **	M	Issue No.	**7 (cont)**
LM End	**4.49**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_ST0010_43_7_20180305_00006.jpg

View of the erosion along the waterside toe.

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