

**Flood Control Project Maintenance
Levee Inspections**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_MA0017_01_s_2013_7				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_MA0017_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_MA0017_01_s_2013_9				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014 but needs to take training next flood season.					

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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Sutter Maintenance Yard Maintenance Area 0017

No Photos

View of waterside vegetation. Fall 2018

View of landside vegetation. Fall 2018Page 2 of 21

Sutter Maintenance Yard Maintenance Area 0017

View of the trees along the landside toe.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	3.95	Rating **	A/W	Issue No.	36
LM End	3.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.143792 °	39.143792 °
				-122.904798 °	-122.904798 °
DWR ID	844				
Comment Code					
Inspector Comment					
FS_ID:50814 DS_ID:844 EP_NO: 11463 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/19/2016 Crossing appears to be in good ondition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in good condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 New flap gate installed. No other issues with pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Timber walkway on the landside (LS) slope to a timber walkway to pump house mounted on piles in drainage ditch. (24- inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11463, 1975 - Audrey Jones). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 3.99)]. FS Date: 11/21/2016 12:09:38 PM					

LM Start	3.95	Rating **	A/W	Issue No.	36 (cont)
LM End	3.95	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_50814_46849.jpg



24-inch CMP at outlet on WS toe.

Photo 2 of 3 : UCIP_FA_2018_50814_46848.jpg



Pumphouse on piles at LS 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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Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	3.95	Rating **	A/W	Issue No.	36 (cont)	
LM End	3.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.143792 °	39.143792 °	
				-122.904798 °	-122.904798 °	
DWR ID	844					
Comment Code						
Inspector Comment						
FS_ID:50814 DS_ID:844 EP_NO: 11463 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/19/2016 Crossing appears to be in good ondition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in good condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 New flap gate installed. No other issues with pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Timber walkway on the landside (LS) slope to a timber walkway to pump house mounted on piles in drainage ditch. (24- inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11463, 1975 - Audrey Jones). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 3.99)]. FS Date: 11/21/2016 12:09:38 PM						

Photo 3 of 3 : UCIP_FA_2018_50814_46850.jpg



New flap gate on WS

LM Start	3.96	Rating **	M	Issue No.	16
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.143741 °	39.143585 °
				-122.904705 °	-122.903482 °
DWR ID	DWR_MA0017_01_s_2016_16				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large bushes and brambles growing on wire fence on LS toe limiting visibility and access.					

Photo 1 of 1 : FA_2018_MA0017_339_16_20180919_00004.jpg



5/2/2016: Remove or trim dense vegetation growing on fence to allow visibility and access to L/S 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	4.13	Rating **	A/W	Issue No.	37
LM End	4.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142287 °	39.142287 °
				-122.902436 °	-122.902436 °
DWR ID	845				
Comment Code					
Inspector Comment					
FS_ID:50815 DS_ID:845 EP_NO: 11464 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 crossing appears to be in goiid condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 1 of 2: 42-inch corrugated metal drainage pipe through the levee, 20.2 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)]. FS Date: 11/21/2016 12:10:29 PM					

LM Start	4.13	Rating **	A/W	Issue No.	37 (cont)
LM End	4.13	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_50815_46853.jpg



Pumping Plant on LS shoulder.

Photo 2 of 3 : UCIP_FA_2018_50815_46852.jpg



Slide gates in CMP risers on WS shoulder.

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	4.13	Rating **	A/W	Issue No.	37 (cont)	
LM End	4.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.142287 °	39.142287 °	
				-122.902436 °	-122.902436 °	
DWR ID	845					
Comment Code						
Inspector Comment						
FS_ID:50815 DS_ID:845 EP_NO: 11464 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 crossing appears to be in goioid condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 1 of 2: 42-inch corrugated metal drainage pipe through the levee, 20.2 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)]. FS Date: 11/21/2016 12:10:29 PM						

Photo 3 of 3 : UCIP_FA_2018_50815_46851.jpg



Pumping Plant on LS shoulder.

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	4.14	Rating **	A/W	Issue No.	38
LM End	4.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142262 °	39.142262 °
				-122.902423 °	-122.902423 °
DWR ID	852				
Comment Code					
Inspector Comment					
FS_ID:50816 DS_ID:852 EP_NO: 11464 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 crossing appears to be in goiod condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 2 of 2: 42-inch corrugated metal drainage pipe through the levee, 14.6 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)]. FS Date: 11/21/2016 12:11:01 PM					

LM Start	4.14	Rating **	A/W	Issue No.	38 (cont)
LM End	4.14	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_50816_46856.jpg



Pumping plant on LS shoulder.

Photo 2 of 3 : UCIP_FA_2018_50816_46855.jpg



Slide gate in CMP riser on WS shoulder.

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	4.14	Rating **	A/W	Issue No.	38 (cont)	
LM End	4.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.142262 °	39.142262 °	
				-122.902423 °	-122.902423 °	
DWR ID	852					
Comment Code						
Inspector Comment						
FS_ID:50816 DS_ID:852 EP_NO: 11464 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 crossing appears to be in goiid condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 2 of 2: 42-inch corrugated metal drainage pipe through the levee, 14.6 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)]. FS Date: 11/21/2016 12:11:01 PM						

Photo 3 of 3 : UCIP_FA_2018_50816_46854.jpg



Pumping plant on LS shoulder.

LM Start	4.16	Rating **	U	Issue No.	2
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.141894 °	39.120609 °
				-122.902201 °	-122.887166 °
DWR ID	DWR_MA0017_01_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees and limbs are completely obstructing visibility on crown and WS. Crown is too narrow to drive and overgrown with weeds, brush, and trees. Road follows LS toe.					

Photo 1 of 2 : FA_2018_MA0017_339_2_20180919_00001.jpg



View of the trees along the waterside slope and toe.

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Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	4.16	Rating **	U	Issue No.	2 (cont)	
LM End	7.10	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			39.141894 °	39.120609 °	
				-122.902201 °	-122.887166 °	
DWR ID	DWR_MA0017_01_s_2012_2					
Comment Code						
T2 : Thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Trees and limbs are completely obstructing visibility on crown and WS. Crown is too narrow to drive and overgrown with weeds, brush, and trees. Road follows LS toe.						

Photo 2 of 2 : FA_2018_MA0017_339_2_20180919_00002.jpg



Photo taken at LM 6.41 looking west showing overgrown LS slope of levee at right and toe road at left. Note trees obstructing visibility and access at levee crown. Crown is +/- 5 feet wide, and impassible to vehicles due to vegetation, and in some places, to pedestrians.
4/19/2016

LM Start	5.34	Rating **	M	Issue No.	40
LM End	5.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.127449 °	39.127449 °
				-122.893460 °	-122.893460 °
DWR ID	847				
Comment Code					
Inspector Comment					
FS_ID:50818 DS_ID:847 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- AFreitag)6/14/2016 Sack ring is still built up underneath the pipes.4/23/2015 Sack ring is still built up underneath the pipes.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue. FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through the levee, 5 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (one 16-inch and one 36-inch pipes [HLM 5.43] authorized under Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)]. FS Date: 11/21/2016 12:11:57 PM					

Photo 1 of 2 : UCIP_FA_2018_50818_46860.jpg



Pumping plant, pipes, and ring levees on LS 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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Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	5.34	Rating **	M	Issue No.	40 (cont)	
LM End	5.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.127449 °	39.127449 °	
				-122.893460 °	-122.893460 °	
DWR ID	847					
Comment Code						
Inspector Comment						
FS_ID:50818 DS_ID:847 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- AFreitag)6/14/2016 Sack ring is still built up underneath the pipes.4/23/2015 Sack ring is still built up underneath the pipes.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue. FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through the levee, 5 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (one 16-inch and one 36-inch pipes [HLM 5.43] authorized under Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)]. FS Date: 11/21/2016 12:11:57 PM						

Photo 2 of 2 : UCIP_FA_2018_50818_46859.jpg



16-inch pipe, flap gate, air vent, and ring levee on WS 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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Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	5.35	Rating **	M	Issue No.	41	
LM End	5.35	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.127451 °	39.127451 °	
				-122.893450 °	-122.893450 °	
DWR ID	853					
Comment Code						
Inspector Comment						
FS_ID:50819 DS_ID:853 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- A Freitag)6/14/2016 Sack ring is still built up underneath the pipes.4/23/2015 Sack ring still built up underneath the pipes.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainage pipe through the levee, 5 feet below the crown. Flap gate and air vent on the waterside (WS) slope. (one 36-inch and one 16-inch pipes [HLM 5.43] authorized under Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)]. FS Date: 11/21/2016 12:12:31 PM						

LM Start	5.35	Rating **	M	Issue No.	41 (cont)
LM End	5.35	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_FA_2018_50819_46864.jpg



Pipes and pump house on LS toe with ring levees.

Photo 2 of 2 : UCIP_FA_2018_50819_46863.jpg



Pipe, flap gate, air vent, and sandbags on WS 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	5.78	Rating **	M	Issue No.	42
LM End	5.78	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.127612°	39.127612°	
			-122.885520°	-122.885520°	
DWR ID	848				

Comment Code

Inspector Comment

FS_ID:50820
DS_ID:848
EP_NO: 11457
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- AFreitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 No cover on riser and no wheel to operate gate.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Handle to operate gate was in place but still no cover on riser.12/13/2012 No cover on CMP riser and no handle for actuating gate. This may or may not be an issue.
FIELD_STRUCT_DESC: 24-inch drainage pipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landside (LS) end. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Riser unit is mounted on concrete base. (24-inch pipe [HLM 5.87] authorized under Automatic Board Order (ABO) issued as Permit No. 11457, 1975 - Crawford). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.87)].
FS Date: 11/21/2016 12:12:57 PM

LM Start	5.78	Rating **	M	Issue No.	42 (cont)
LM End	5.78	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_FA_2018_50820_46866.jpg



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

Photo 2 of 2 : UCIP_FA_2018_50820_46865.jpg



Approximate location of inlet on LS toe (not visible).

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

**Flood Control Project Maintenance
Levee Inspections**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	5.96	Rating **	A/W	Issue No.	43
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126322°	39.126322°
				-122.882764°	-122.882764°
DWR ID	849				
Comment Code					
Inspector Comment					
FS_ID:50821 DS_ID:849 EP_NO: 11467 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 Flap gate propped open. Will make sure its closed before flood season.4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.7/3/2014 Same as last inspection12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Highland Canal Diversion Weir and Drainage] 1 of 2: 54-inch corrugated metal drainage pipe through the levee 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (two 42-inch pipes [HLM 6.05] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)]. FS Date: 11/21/2016 12:13:32 PM					

LM Start	5.96	Rating **	A/W	Issue No.	43 (cont)
LM End	5.96	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_50821_46869.jpg



Concrete weir/dam and channel on LS toe.

Photo 2 of 3 : UCIP_FA_2018_50821_46868.jpg



pipe and flap gate on WS 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**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	5.96	Rating **	A/W	Issue No.	43 (cont)	
LM End	5.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.126322 °	39.126322 °	
				-122.882764 °	-122.882764 °	
DWR ID	849					
Comment Code						
Inspector Comment						
FS_ID:50821 DS_ID:849 EP_NO: 11467 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 Flap gate propped open. Will make sure its closed before flood season.4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.7/3/2014 Same as last inspection12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Highland Canal Diversion Weir and Drainage] 1 of 2: 54-inch corrugated metal drainage pipe through the levee 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (two 42-inch pipes [HLM 6.05] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)]. FS Date: 11/21/2016 12:13:32 PM						

Photo 3 of 3 : UCIP_FA_2018_50821_46867.jpg



Concrete headwall at inlet on LS 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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Sutter Maintenance Yard Maintenance Area 0017

**Flood Control Project Maintenance
Levee Inspections**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	5.96	Rating **	A/W	Issue No.	44 (cont)	
LM End	5.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.126298 °	39.126298 °	
				-122.882756 °	-122.882756 °	
DWR ID	854					
Comment Code						
Inspector Comment						
FS_ID:50822						
DS_ID:854						
EP_NO: 11467						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)						
10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)						
6/14/2016 Flap gate propped open. Will make sure its closed before flood season.						
4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.						
7/3/2014 Same as last inspection.						
12/23/2013 Same as last inspection. 8/2/2013 Same as last inspection.						
FIELD_STRUCT_DESC: [Highland Canal Diversion Weir and Drainage]						
2 of 2: 54-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (two 42-inch pipes [HLM 6.05] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)].						
FS Date: 11/21/2016 12:14:05 PM						

Photo 3 of 3 : UCIP_FA_2018_50822_46870.jpg



Concrete headwall on LS 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**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	6.00	Rating **	U	Issue No.	48	
LM End	6.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.126027 °	39.126027 °	
				-122.883371 °	-122.883371 °	
DWR ID	850					
Comment Code						
Inspector Comment						
FS_ID:53323 DS_ID:850 EP_NO: 11467 Repair Type: Urgent Crossing Status: Found UCIP Comments: 9/6/18 Same as last inspection; WS erosion is still present so the crossing remains Urgent (D. Sanoski - DWR UCIP).10/19/2016 WS erosion still present. (DWR Sutter Yard - A Freitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - a Freitag)4/23/2015 Same as last inspection. (DWR Sutter Yard - a Freitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)8/2/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)12/13/2012 This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2 feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electrical panel, along with multiple valves and appurtenances, on the LS shoulder. (12-inch pipe [HLM 6.11] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - B. F. Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, 1967, (HLM 6.11)]. FS Date: 9/6/2018 10:48:00 AM						

LM Start	6.00	Rating **	U	Issue No.	48 (cont)
LM End	6.00	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_53323_46882.jpg



12-inch pipe and appurtances on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_53323_46881.jpg



12-inch pipe and appurtances on WS shoulder.

* 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**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	6.00	Rating **	U	Issue No.	48 (cont)	
LM End	6.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.126027 °	39.126027 °	
				-122.883371 °	-122.883371 °	
DWR ID	850					
Comment Code						
Inspector Comment						
FS_ID:53323 DS_ID:850 EP_NO: 11467 Repair Type: Urgent Crossing Status: Found UCIP Comments: 9/6/18 Same as last inspection; WS erosion is still present so the crossing remains Urgent (D. Sanoski - DWR UCIP).10/19/2016 WS erosion still present. (DWR Sutter Yard - A Freitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - a Freitag)4/23/2015 Same as last inspection. (DWR Sutter Yard - a Freitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)8/2/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)12/13/2012 This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2 feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electrical panel, along with multiple valves and appurtenances, on the LS shoulder. (12-inch pipe [HLM 6.11] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - B. F. Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, 1967, (HLM 6.11)]. FS Date: 9/6/2018 10:48:00 AM						

Photo 3 of 3 : UCIP_FA_2018_53323_46880.jpg



Pumping plant and appurtances on LS shoulder.

* 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**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	7.16	Rating **	M	Issue No.	49
LM End	7.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID	851				
Comment Code					
Inspector Comment					
FS_ID:50827 DS_ID:851 EP_NO: 11467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 Abandoned- should be done so properly. (DWR Sutter Yard- AFreitag)6/14/2016 Abandoned crossing.4/23/2015 Same as last inspection. Pipe still needs to be properly abandoned.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 Pipe should be properly abandoned. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through the levee, 8 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. Steel plate welded on end of pipe at LS toe. (one 16-inch and one 24-inch pipes [HLM 7.79] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 7.19)]. FS Date: 11/21/2016 12:16:52 PM					

LM Start	7.16	Rating **	M	Issue No.	49 (cont)
LM End	7.16	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_FA_2018_50827_46884.jpg



Pumping plant in shed on LS at drainage ditch.

Photo 2 of 2 : UCIP_FA_2018_50827_46883.jpg



Steel plate welded over end of pipe at LS 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**

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

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	10/16/2018 10/16/2018	Luz Dial

LM Start	7.16	Rating **	A/W	Issue No.	50	
LM End	7.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.120069 °	39.120069 °	
				-122.886484 °	-122.886484 °	
DWR ID	855					
Comment Code						
Inspector Comment						
FS_ID:50828 DS_ID:855 EP_NO: 11467 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 Crossing appears to be in good condition.4/23/2015 No issues seen with pipe.7/3/2014 Same as last inspection.8/2/2013 Same as last inspection.12/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 8 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (one 16-inch and one 24-inch pipes [HLM 7.79] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 7.19)]. FS Date: 11/21/2016 12:17:36 PM						

LM Start	7.16	Rating **	A/W	Issue No.	50 (cont)
LM End	7.16	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_FA_2018_50828_46886.jpg



24-inch steel pipe and pump house on LS.

Photo 2 of 2 : UCIP_FA_2018_50828_46885.jpg



Air vent on pipe at LS pumphouse.

* 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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