

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	37.744860 °
				°	-121.289828 °
DWR ID	DWR_RD2075_01_f_2014_9				
Comment Code					
Inspector Comment					
RD 2075 has the O&M Manual on file.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_RD2075_01_f_2014_10				
Comment Code					
Inspector Comment					
RD 2075 has emergency supplies stored in their 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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Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2075_01_f_2014_11				
Comment Code					
Inspector Comment					
RD 2075 has regular training for their work crews, they don't have district crew only trustees, landowners and farmers.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	24
LM End	7.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.749555 °	37.710188 °	
			-121.288913 °	-121.268387 °	
DWR ID	DWR_RD2075_01_s_2018_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control wild growth on levee slope.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	25
LM End	7.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.749555 °	37.710188 °	
			-121.288913 °	-121.268387 °	
DWR ID	DWR_RD2075_01_s_2018_25				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control wild growth on levee slope.					

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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	0.12	Rating **	M	Issue No.	30
LM End	0.12	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.748200 °	37.748200 °	
			-121.289717 °	-121.289717 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:24663
DS_ID:24735
EP_NO: 4736
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: - pipe not visible on waterside.- no access to concrete riser on waterside.- blocked siphon breaker.
FIELD_STRUCT_DESC: 14-inch coated steel drainage discharge pipe through the levee, 4 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the drainage ditch on the landside (LS). Siphon breaker in a concrete riser on the waterside (WS) slope. Concrete distribution box at the WS toe. (Plans for removing and replacing an existing drainage pipe through the levee authorized under Permit No. 4736, 1964 - Reclamation District No. 2075). [Additional Reference(s): DWR Levee Log, 2005, 12-inch pipe referenced. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.12), 12-inch pipe referenced].
FS Date: 11/13/2013

LM Start	0.12	Rating **	M	Issue No.	30 (cont)
LM End	0.12	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_24663_44022.jpg



WS view: concrete standpipe (top) and concrete pipe riser (bottom) on levee slope.

Photo 2 of 3 : UCIP_SP_2018_24663_44021.jpg



WS view: concrete pipe riser with siphon breaker on levee 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 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	0.12	Rating **	M	Issue No.	30 (cont)	
LM End	0.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.748200 °	37.748200 °	
				-121.289717 °	-121.289717 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:24663 DS_ID:24735 EP_NO: 4736 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe not visible on waterside.- no access to concrete riser on waterside.- blocked siphon breaker. FIELD_STRUCT_DESC: 14-inch coated steel drainage discharge pipe through the levee, 4 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the drainage ditch on the landside (LS). Siphon breaker in a concrete riser on the waterside (WS) slope. Concrete distribution box at the WS toe. (Plans for removing and replacing an existing drainage pipe through the levee authorized under Permit No. 4736, 1964 - Reclamation District No. 2075). [Additional Reference(s): DWR Levee Log, 2005, 12-inch pipe referenced. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.12), 12-inch pipe referenced]. FS Date: 11/13/2013						

Photo 3 of 3 : UCIP_SP_2018_24663_44020.jpg



LS view: walkway, pump, service pole, and intake structure.

LM Start	0.99	Rating **	A/W	Issue No.	13
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.740015 °	37.739830 °
				-121.281243 °	-121.281217 °
DWR ID	DWR_RD2075_01_f_2016_13				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trees have been trimmed to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD2075_315_13_20180503_00008.jpg



Trees have been trimmed to allow inspection and access.

* 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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Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	1.06	Rating **	A/W	Issue No.	17
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.739073 °	37.739073 °
				-121.281620 °	-121.281620 °
DWR ID	DWR_RD2075_01_f_2016_17				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trees trimmed to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD2075_315_17_20180503_00021.jpg



Trees trimmed to allow inspection and access.

LM Start	1.55	Rating **	U	Issue No.	29
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.734470 °	37.734213 °
				-121.286230 °	-121.287660 °
DWR ID	DWR_RD2075_01_s_2018_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild growth at landward toe blocking view and should cleared fifteen feet for landward toe.					

Photo 1 of 3 : SP_2018_RD2075_315_29_20180525_00065.jpg



Looking west at dense veg at landward toe. (Spring 2018)

LM Start	1.55	Rating **	U	Issue No.	29 (cont)
LM End	1.63	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2018_RD2075_315_29_20180525_00064.jpg



Looking west at dense veg. at landward toe. (Spring 2018)

* 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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Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	1.55	Rating **	U	Issue No.	29 (cont)	
LM End	1.63	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Vegetation			37.734470 °	37.734213 °	
				-121.286230 °	-121.287660 °	
DWR ID	DWR_RD2075_01_s_2018_29					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Wild growth at landward toe blocking view and should cleared fifteen feet for landward toe.						

Photo 3 of 3 : SP_2018_RD2075_315_29_20180525_00066.jpg



Looking northeast at dense veg at landward toe. (Spring 2018)

LM Start	1.58	Rating **	M	Issue No.	12
LM End	1.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.734353 °	37.734463 °
				-121.286720 °	-121.288258 °
DWR ID	DWR_RD2075_01_f _ 2017_12				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:575					
Site Designation:LMA-481					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes: 10/23/17: According to LMA and my observations at LM 1.63, this site never had riprap (contrary to previous comments). Erosion has encroached into levee prism. Future high water and wavewash will likely advance erosion further into prism. Repairs should be made prior to next high water.					

Photo 1 of 4 : LEVAL_SP_2018_575_4241.jpg



* 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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Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	1.58	Rating **	M	Issue No.	12 (cont)
LM End	1.67	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.734353 °	37.734463 °	
			-121.286720 °	-121.288258 °	

DWR ID DWR_RD2075_01_f_2017_12

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No: 575

Site Designation: LMA-481

Repair Type: Erosion

Rating: Area of Concern

Field Date: 8/10/2017

Notes: 10/23/17: According to LMA and my observations at LM 1.63, this site never had riprap (contrary to previous comments). Erosion has encroached into levee prism. Future high water and wavewash will likely advance erosion further into prism. Repairs should be made prior to next high water.

LM Start	1.58	Rating **	M	Issue No.	12 (cont)
LM End	1.67	Issue Type +	Ma	Location *	

Photo 2 of 4 : LEVAL_SP_2018_575_4245.jpg



Photo 3 of 4 : LEVAL_SP_2018_575_4246.jpg



* 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 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	1.58	Rating **	M	Issue No.	12 (cont)
LM End	1.67	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.734353 °	37.734463 °	
			-121.286720 °	-121.288258 °	

DWR ID DWR_RD2075_01_f_2017_12

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No: 575

Site Designation: LMA-481

Repair Type: Erosion

Rating: Area of Concern

Field Date: 8/10/2017

Notes: 10/23/17: According to LMA and my observations at LM 1.63, this site never had riprap (contrary to previous comments). Erosion has encroached into levee prism. Future high water and wavewash will likely advance erosion further into prism. Repairs should be made prior to next high water.

Photo 4 of 4 : SP_2018_RD2075_315_12_20180503_00007.jpg



10/23/17: According to LMA and my observations at LM 1.63, this site never had riprap (contrary to previous comments). Erosion has encroached into levee prism. Future high water and wavewash will likely advance erosion further into prism. Repairs should be made prior to next high water.

* 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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Levee Inspections**

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

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	31
LM End	2.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.731314 °	37.731314 °
				-121.293713 °	-121.293713 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:24666
DS_ID:24737
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: - service pole on landside.- looks abandoned.
Walkway in dilapidated condition.
FIELD_STRUCT_DESC: 16-inch steel drainage discharge pipe through the levee, 4.5 feet below the crown. Corrugated metal cutoff wall. Pump mounted on a pile structure in a drainage ditch on the landside (LS).
Siphon breaker in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 2.30)].
FS Date: 11/13/2013

LM Start	2.32	Rating **	M	Issue No.	31 (cont)
LM End	2.32	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_24666_45600.jpg



WS view: concrete standpipe (top) and steel pipe riser (bottom marked) on levee slope.

Photo 2 of 3 : UCIP_SP_2018_24666_44030.jpg



WS view: blocked siphon breaker in steel pipe riser on levee 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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Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	31 (cont)
LM End	2.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.731314 °	37.731314 °
				-121.293713 °	-121.293713 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24666 DS_ID:24737 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - service pole on landside.- looks abandoned. Walkway in dilapidated condition. FIELD_STRUCT_DESC: 16-inch steel drainage discharge pipe through the levee, 4.5 feet below the crown. Corrugated metal cutoff wall. Pump mounted on a pile structure in a drainage ditch on the landside (LS). Siphon breaker in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 2.30)]. FS Date: 11/13/2013					

Photo 3 of 3 : UCIP_SP_2018_24666_44029.jpg



WS view: concrete standpipe on levee toe.

LM Start	2.32	Rating **	A/W	Issue No.	15
LM End	2.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.731200 °	37.724900 °
				-121.293400 °	-121.293800 °
DWR ID	DWR_RD2075_01_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Sinkholes have formed along the landside levee toe as a result of the high water. The cause of the sinkholes is not clear, but a similar phenomenon in this area is believed to have caused the levee breach earlier this year. Further geotechnical investigation is needed.					
Site ID No:479					
Site Designation:LMA-306					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/26/2017					
Notes: Sink holes appear to have already been filled. 10/23/17: LMA has removed pipes (parallel to levee) in this area, and drainage ditch has been relocated to approx 60 feet away from levee toe. Known sandy soils in region may contribute to sinkholes.					

Photo 1 of 3 : LEVAL_SP_2018_479_2203.jpg



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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

Photo 3 of 3 : LEVAL_SP_2018_480_2209.jpg

A photograph showing a riverbank with dense green vegetation, including tall grasses and shrubs, growing along the edge of a sandy shore. The river water is visible, and the background shows a line of trees under a clear blue sky.

Photo 1 of 6 : LEVAL_SP_2018_81_1339.jpg



A wide river flows under an overcast sky. The foreground is a gravelly bank with sparse green and brown vegetation. Several bare, leafless trees stand in the shallow water near the shore. A dense line of green trees marks the far bank. The image is labeled 'Photo 1 of 6 : LEVAL_SP_2018_81_1339.jpg' at the top and has a timestamp 'AM11:22, JUN 8/2017' in the bottom right corner.

* 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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	2.77	Rating **	A/W	Issue No.	14 (cont)
LM End	2.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.724810 °	37.724207 °
				-121.294150 °	-121.293308 °
DWR ID	DWR_RD2075_01_f_2017_14				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:81					
Site Designation:LMA-35					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/8/2017					
Notes: no damage present 10/23/17: Photos taken of vertical eroded low-flow bank approximately 20 feet from waterside levee toe. Area is composed of loose sand. Sandbar in channel may direct current toward this area.					

Photo 2 of 6 : LEVAL_SP_2018_81_1341.jpg



Photo 3 of 6 : LEVAL_SP_2018_81_1343.jpg



* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	2.77	Rating **	A/W	Issue No.	14 (cont)
LM End	2.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.724810 °	37.724207 °
				-121.294150 °	-121.293308 °
DWR ID	DWR_RD2075_01_f_2017_14				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:81					
Site Designation:LMA-35					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/8/2017					
Notes: no damage present 10/23/17: Photos taken of vertical eroded low-flow bank approximately 20 feet from waterside levee toe. Area is composed of loose sand. Sandbar in channel may direct current toward this area.					

LM Start	2.77	Rating **	A/W	Issue No.	14 (cont)
LM End	2.83	Issue Type +	Ma	Location *	

Photo 4 of 6 : SP_2018_RD2075_315_14_20180503_00012.jpg



View down through erosion rut in bank. 10/23/17: Photos taken of vertical eroded low-flow bank approximately 20 feet from waterside levee toe. Area is composed of loose sand. Sandbar in channel may direct current toward this area.

Photo 5 of 6 : SP_2018_RD2075_315_14_20180503_00013.jpg



View upstream showing narrow distance between levee toe and vertical bank. 10/23/17: Photos taken of vertical eroded low-flow bank approximately 20 feet from waterside levee toe. Area is composed of loose sand. Sandbar in channel may direct current toward this area.

* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	3.90	Rating **	A/W	Issue No.	18 (cont)					
LM End	3.95	Issue Type +	Ma	Location *						
Category	Supplemental		GPS Latitude/Longitude							
			Start	End						
Item	2017 Storm Damage		37.713388 °	37.713492 °						
			-121.280018 °	-121.278982 °						
DWR ID	DWR_RD2075_01_f_2017_18									
Comment Code										
Inspector Comment										
Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 576 Site Designation: LMA-482 Repair Type: Erosion Rating: Area of Concern Field Date: 8/10/2017 Notes: 10/23/17: There was no riprap in this area. Erosion sites have been repaired by LMA.										

Photo 4 of 4 : SP_2018_RD2075_315_18_20180503_00025.jpg



10/23/17: There was no riprap in this area (contrary to previous comment). Erosion sites have been repaired by LMA.

LM Start	4.00	Rating **	A/W	Issue No.	19					
LM End	4.04	Issue Type +	Ma	Location *						
Category	Supplemental		GPS Latitude/Longitude							
			Start	End						
Item	2017 Storm Damage		37.714048 °	37.714630 °						
			-121.278363 °	-121.278263 °						
DWR ID	DWR_RD2075_01_f_2017_19									
Comment Code										
Inspector Comment										
Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 577 Site Designation: LMA-483 Repair Type: Erosion Rating: Area of Concern Field Date: 8/10/2017 Notes:										

Photo 1 of 3 : LEVAL_SP_2018_577_4471.jpg



* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	4.00	Rating **	A/W	Issue No.	19 (cont)
LM End	4.04	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.714048 °	37.714630 °
				-121.278363 °	-121.278263 °
DWR ID	DWR_RD2075_01_f_2017_19				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:577					
Site Designation:LMA-483					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 2 of 3 : LEVAL_SP_2018_577_4473.jpg



Photo 3 of 3 : LEVAL_SP_2018_577_4475.jpg



* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.24	Rating **	A/W	Issue No.	21
LM End	5.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.728460 °	37.727799 °
				-121.274671 °	-121.274252 °
DWR ID	DWR_RD2075_01_f_2017_21				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:578					
Site Designation:LMA-484					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes: Paved road on levee.					

Photo 1 of 3 : LEVAL_SP_2018_578_4248.jpg



LM Start	5.24	Rating **	A/W	Issue No.	21 (cont)
LM End	5.29	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_578_4252.jpg



* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.26	Rating **	A/W	Issue No.	23 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.728216 °		°
				-121.274434 °		°
DWR ID	DWR_RD2075_01_f_2017_23					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:79						
Site Designation:LMA-33						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/8/2017						
Notes: no damage present						

LM Start	5.26	Rating **	A/W	Issue No.	23 (cont)
LM End		Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_79_1335.jpg



Photo 3 of 3 : LEVAL_SP_2018_79_1337.jpg



* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.28	Rating **	A/W	Issue No.	1
LM End	5.29	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.727933 °	37.727933 °
				-121.274491 °	-121.274491 °
DWR ID	RD2075U01RM64.34				

Comment Code

Inspector Comment

09/13/2017: No significant change observed.
 07/12/2016: No significant change observed.
 08/28/2015: No significant change observed. Loose material is visible at the upper levee slope. The loose soil may have been caused by runoff.
 08/18/2014: No significant change observed.
 09/10/2013: No significant change observed.
 09/13/2012: No significant change observed.
 08/18/2011: No significant change observed. Some new material added to the water side levee slope, but the added material is loose and seems not helping the levee protection.
 10/05/2010: No significant change observed. Levee slope has minimal vegetation and lacks rip rap protection. Sandy material found on the lower and middle slope is an undesirable material to have on a levee.
 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.
 08/20/2009: No major change since last visit; site is located in an oxbow; slope surface consists of very sandy material; there is a tree on site leaning and with exposed tree roots; site is recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Eddy Cordoza from the district is aware of the site and is looking for recommendation; site is previously rated "U".
 08/17/2007: Site is close to an irrigation pump inlet. [2017 Site ID:RD2075U01RM64.34]

LM Start	5.28	Rating **	A/W	Issue No.	1 (cont)
LM End	5.29	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2018_RD2075_315_1_20180503_00001.jpg



Upstream view of the erosion site.

Photo 2 of 3 : SP_2018_RD2075_315_1_20180503_00002.jpg



Close view of the site.

* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.28	Rating **	A/W	Issue No.	1 (cont)	
LM End	5.29	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.727933 °		37.727933 °
				-121.274491 °		-121.274491 °
DWR ID	RD2075U01RM64.34					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/12/2016: No significant change observed.						
08/28/2015: No significant change observed. Loose material is visible at the upper levee slope. The loose soil may have been caused by runoff.						
08/18/2014: No significant change observed.						
09/10/2013: No significant change observed.						
09/13/2012: No significant change observed.						
08/18/2011: No significant change observed. Some new material added to the water side levee slope, but the added material is loose and seems not helping the levee protection.						
10/05/2010: No significant change observed. Levee slope has minimal vegetation and lacks rip rap protection. Sandy material found on the lower and middle slope is an undesirable material to have on a levee.						
08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.						
08/20/2009: No major change since last visit; site is located in an oxbow; slope surface consists of very sandy material; there is a tree on site leaning and with exposed tree roots; site is recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Eddy Cordoza from the district is aware of the site and is looking for recommendation; site is previously rated "U".						
08/17/2007: Site is close to an irrigation pump inlet. [2017 Site ID:RD2075U01RM64.34]						

Photo 3 of 3 : SP_2018_RD2075_315_1_20180503_00003.jpg



Looking upstream at the site.

* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.56	Rating **	M	Issue No.	35
LM End	5.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.724877 °	37.724877 °
				-121.271025 °	-121.271025 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50191
DS_ID:24740
EP_NO: 3492
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 06/21/2016 Rock revetment placed along WS slope beneath and around pipe; this corrected the levee erosion but still unclear whether the cause of the erosion was addressed. I found no evidence of siphon breaker leakage cited previously. Eddy Cardoza of RD2075 mentioned he saw no leak in and around pipe when the levee slope was repaired. Crossing was been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)11/13/2013 Huge erosion on waterside levee slope due to siphon breaker leakage. It is not 16-inch but 12-inch steel pipe. Pump not mounted on pile structure but mounted on concrete sump. Siphon breaker not in concrete riser but on steel pipe. Pipe is not 8 ft. below the crown but 4 ft below the crown. Looks original pipe was replaced with new crossing. Needs more information from LMA or DWR Inspector. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 12-inch asphalt coated steel drainage discharge pipe through the levee, 4 feet below the crown. Concrete cutoff wall. Pump mounted on a concrete sump in a drainage ditch approximately 200 feet off the landside (LS) toe. Siphon breaker on the apex of the pipe through the waterside (WS) slope. (Plans to replace the discharge pipe across the levee authorized under Permit No. 3492, 1960 - Reclamation District No. 2075, care of Eldred E. Brown, Secretary. Plans to replace a 10-horsepower pump and a 10-inch pipe with a larger 15-horsepower pump and a 14-inch steel discharge pipe authorized under Permit No. 3492-A, 1969 - Reclamation District No. 2075, care of Eldred E. Brown, Secretary). [Additional Reference(s): DWR Levee Log, 2005, 16-inch pipe referenced. USACE San Joaquin O&M Manual 3, December 1968, (HLM 5.52), 16-inch pipe referenced].
FS Date: 6/21/2016

Photo 1 of 3 : UCIP_SP_2018_50191_44262.jpg



WS view: siphon breaker on steel pipe on levee slope. Huge soil erosion due to siphon breaker leakage.

* 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 : 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.56	Rating **	M	Issue No.	35 (cont)
LM End	5.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.724877 °	37.724877 °
				-121.271025 °	-121.271025 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50191

DS_ID:24740

EP_NO: 3492

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 06/21/2016 Rock revetment placed along WS slope beneath and around pipe; this corrected the levee erosion but still unclear whether the cause of the erosion was addressed. I found no evidence of siphon breaker leakage cited previously. Eddy Cardoza of RD2075 mentioned he saw no leak in and around pipe when the levee slope was repaired. Crossing was been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)11/13/2013 Huge erosion on waterside levee slope due to siphon breaker leakage. It is not 16-inch but 12-inch steel pipe. Pump not mounted on pile structure but mounted on concrete sump. Siphon breaker not in concrete riser but on steel pipe. Pipe is not 8 ft. below the crown but 4 ft below the crown. Looks original pipe was replaced with new crossing. Needs more information from LMA or DWR Inspector. (P. Amatya - DWR)

FIELD_STRUCT_DESC: 12-inch asphalt coated steel drainage discharge pipe through the levee, 4 feet below the crown. Concrete cutoff wall. Pump mounted on a concrete sump in a drainage ditch approximately 200 feet off the landside (LS) toe. Siphon breaker on the apex of the pipe through the waterside (WS) slope. (Plans to replace the discharge pipe across the levee authorized under Permit No. 3492, 1960 - Reclamation District No. 2075, care of Eldred E. Brown, Secretary. Plans to replace a 10-horsepower pump and a 10-inch pipe with a larger 15-horsepower pump and a 14-inch steel discharge pipe authorized under Permit No. 3492-A, 1969 - Reclamation District No. 2075, care of Eldred E. Brown, Secretary). [Additional Reference(s): DWR Levee Log, 2005, 16-inch pipe referenced. USACE San Joaquin O&M Manual 3, December 1968, (HLM 5.52), 16-inch pipe referenced]. FS Date: 6/21/2016

Photo 2 of 3 : UCIP_SP_2018_50191_44261.jpg



LS view: pipe, pump and concrete sump in the drain ditch.

* 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 : 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.56	Rating **	M	Issue No.	35 (cont)
LM End	5.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.724877 °	37.724877 °
				-121.271025 °	-121.271025 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50191
DS_ID:24740
EP_NO: 3492
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 06/21/2016 Rock revetment placed along WS slope beneath and around pipe; this corrected the levee erosion but still unclear whether the cause of the erosion was addressed. I found no evidence of siphon breaker leakage cited previously. Eddy Cardoza of RD2075 mentioned he saw no leak in and around pipe when the levee slope was repaired. Crossing was been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)11/13/2013 Huge erosion on waterside levee slope due to siphon breaker leakage. It is not 16-inch but 12-inch steel pipe. Pump not mounted on pile structure but mounted on concrete sump. Siphon breaker not in concrete riser but on steel pipe. Pipe is not 8 ft. below the crown but 4 ft below the crown. Looks original pipe was replaced with new crossing. Needs more information from LMA or DWR Inspector. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 12-inch asphalt coated steel drainage discharge pipe through the levee, 4 feet below the crown. Concrete cutoff wall. Pump mounted on a concrete sump in a drainage ditch approximately 200 feet off the landside (LS) toe. Siphon breaker on the apex of the pipe through the waterside (WS) slope. (Plans to replace the discharge pipe across the levee authorized under Permit No. 3492, 1960 - Reclamation District No. 2075, care of Eldred E. Brown, Secretary. Plans to replace a 10-horsepower pump and a 10-inch pipe with a larger 15-horsepower pump and a 14-inch steel discharge pipe authorized under Permit No. 3492-A, 1969 - Reclamation District No. 2075, care of Eldred E. Brown, Secretary). [Additional Reference(s): DWR Levee Log, 2005, 16-inch pipe referenced. USACE San Joaquin O&M Manual 3, December 1968, (HLM 5.52), 16-inch pipe referenced].
FS Date: 6/21/2016

Photo 3 of 3 : UCIP_SP_2018_50191_44260.jpg



LS view: closer view of pipe, pump and concrete sump in the drain ditch.

* 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**

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

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.57	Rating **	U	Issue No.	22
LM End	5.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.724795 °	37.724795 °
				-121.270935 °	-121.270935 °
DWR ID	DWR_RD2075_01_s_2018_22				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD2075_315_22_20180525_00067.jpg



Looking downstream at untrimmed tree on landward toe. (Spring 2018)

LM Start	5.87	Rating **	A/W	Issue No.	28
LM End	6.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.721710 °	37.720960 °
				-121.267490 °	-121.259830 °
DWR ID	DWR_RD2075_01_f_2017_28				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:579					
Site Designation:LMA-485					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes: Berm present on LS. LMA 486 is combined with this site.					

Photo 1 of 3 : LEVAL_SP_2018_579_4263.jpg



**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	5.87	Rating **	A/W	Issue No.	28 (cont)
LM End	6.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.721710 °	37.720960 °
				-121.267490 °	-121.259830 °
DWR ID	DWR_RD2075_01_f_2017_28				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:579					
Site Designation:LMA-485					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes: Berm present on LS. LMA 486 is combined with this site.					

Photo 2 of 3 : LEVAL_SP_2018_579_4264.jpg



Photo 3 of 3 : LEVAL_SP_2018_579_4275.jpg



* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	6.20	Rating **	A/W	Issue No.	27
LM End	6.33	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.722087 °	37.720952 °	
			-121.261863 °	-121.259950 °	

No Photos

DWR ID DWR_RD2075_01_f_2017_27

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No: 580

Site Designation: LMA-486

Repair Type: Erosion

Rating: Area of Concern

Field Date: 8/10/2017

Notes: This site is combined with LMA 485.

* 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 - Spring 2018

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	05/24/2018 05/24/2018	Richard Willoughby

LM Start	6.84	Rating **	M	Issue No.	36
LM End	6.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714162 °	37.714162 °
				-121.259227 °	-121.259227 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50213
DS_ID:24742
EP_NO: 4051
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 06/21/2016: Erosion repaired with rock revetment and crown reggraded. Pipe is crushed and deformed on LS. PVC pipe has been removed. Crossing has been downgraded from Urgent to Non-Urgent. 11/13/2013:- exposed deformed pipe on landside slope. Soil erosion also occurred around the deformed pipe. Walkway at pump on LS toe in poor structural condition.- a temporary 12-inch PVC pipe also found on both sides of the levee.
FIELD_STRUCT_DESC: 12-inch steel drainage discharge pipe through the levee, 5.5 feet below the crown. Corrugated metal cutoff wall. Pump mounted over a concrete sump at the landside (LS) toe. Siphon breaker in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Ditch across the WS berm. 12-inch polyvinyl chloride (PVC) pipe through the levee, 1 foot below the crown, installed for emergency use during the 1986 floods, not found in 2016. (Plans for installation of a 10-inch drainage discharge pipe for a drainage pump over the levee authorized under Permit No. 4051, 1962 - Reclamation District No. 2075). [Additional Reference(s): DWR Levee Log, 2005, 10-inch pipe referenced. USACE San Joaquin O&M Manual 3, December 1968, (HLM 6.79), 10-inch pipe referenced].
FS Date: 6/21/2016

LM Start	6.84	Rating **	M	Issue No.	36 (cont)
LM End	6.84	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_50213_45613.jpg



WS view: CMP riser (bottom) on levee shoulder. Steel pipe (top) and temporary pvc pipe on levee slope.

Photo 2 of 3 : UCIP_SP_2018_50213_45612.jpg



WS view: siphon breaker in CMP riser on levee shoulder.

* 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	

