

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0369	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0369 Libby McNeil	U	0.78						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02	0.03	0.14	18.02%	0.04			
Trim / Thin Trees	0.05	0.01	0.09	11.59%				
Encroachments	0.04		0.04	5.15%	0.07	0.06		
Slope Stability	0.01		0.01	1.29%				
Emergency Supplies & Equipment	0.01		0.01	1.29%				
Flood Preparedness & Training	0.01		0.01	1.29%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.04	0.02		
<i>LMA Totals:</i>	0.14	0.04	0.30	38.62%	0.15	0.08	0.00	0.00

Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles						
RD0369	U	0.78						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02	0.03	0.14	18.02%	0.04			
Trim / Thin Trees	0.05	0.01	0.09	11.59%				
Encroachments	0.04		0.04	5.15%	0.07	0.06		
Slope Stability	0.01		0.01	1.29%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.04	0.02		
<i>Unit Totals:</i>	0.12	0.04	0.28	36.05%	0.15	0.08	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet
Fall 2019 Levee Inspection Results****Reclamation District No. 0369 Libby McNeil**

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 0369 Libby McNeil

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	0.78
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/15/2019 - 3/15/2019		10/22/2019 - 10/22/2019	
DWR Inspector	David Julian		David Julian	
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start		Rating **	M	Issue No.	22
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0369_01_f_2012_22				
Comment Code					
Inspector Comment					
RD 369 members have not been flood fight trained.					

No Photos

LM Start		Rating **	A	Issue No.	27
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0369_01_f_2014_27				
Comment Code					
Inspector Comment					
RD 369 I have forwarded to the District Mr. Clarence Chu a copy of the O & M Manual for their record.					

No Photos

LM Start		Rating **	M	Issue No.	28
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0369_01_f_2014_28				
Comment Code					
Inspector Comment					
RD 369 have no emergency supplies on hand.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.03	Rating **	M	Issue No.	16
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.258497°	38.258188°
				-121.517403°	-121.516937°
DWR ID	DWR_RD0369_01_f_2018_16				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.04	Rating **	M	Issue No.	30
LM End	0.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.258434°	38.258434°
				-121.517283°	-121.517283°
DWR ID	18971				
Comment Code					
Inspector Comment					
DS_ID:18971 FS_ID:50105 EP_NO: 8555 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2015 Pipe corroded through on LS at retaining wall. May not go all the way through the levee. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 4-inch steel pipe of an unknown purpose through the levee, 4 feet below the crown. Pipe visible on the landside (LS) at a retaining wall. (Retention of a 6-inch pipe and a 4-inch pipe through the levee authorized under Automatic Board Order (ABO) issued as Permit No. 8555, 1973 - Jordon Investment Company, care of Walter E. Herman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 111, May 1959, (RM 27.87), O&M Manual misidentifies this location as RM 28.87]. FS Date: 3/4/2015 4:11:00 PM					

Photo 1 of 3 : UCIP_FA_2019_50105_73165.jpg



Pipe visible on retaining wall 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.04	Rating **	M	Issue No.	30 (cont)	
LM End	0.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.258434 °	38.258434 °	
				-121.517283 °	-121.517283 °	
DWR ID	18971					
Comment Code						
Inspector Comment						
DS_ID:18971 FS_ID:50105 EP_NO: 8555 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2015 Pipe corroded through on LS at retaining wall. May not go all the way through the levee. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 4-inch steel pipe of an unknown purpose through the levee, 4 feet below the crown. Pipe visible on the landside (LS) at a retaining wall. (Retention of a 6-inch pipe and a 4-inch pipe through the levee authorized under Automatic Board Order (ABO) issued as Permit No. 8555, 1973 - Jordon Investment Company, care of Walter E. Herman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 111, May 1959, (RM 27.87), O&M Manual misidentifies this location as RM 28.87]. FS Date: 3/4/2015 4:11:00 PM						

LM Start	0.04	Rating **	M	Issue No.	30 (cont)
LM End	0.04	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_50105_73164.jpg



Pipe visible on retaining wall at LS toe.

Photo 3 of 3 : UCIP_FA_2019_50105_73163.jpg



View of WS. Pipe not found on WS.

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.05	Rating **	M	Issue No.	31	
LM End	0.05	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.258347 °	38.258347 °	
				-121.517169 °	-121.517169 °	
DWR ID	18970					
Comment Code						
Inspector Comment						
DS_ID:18970 FS_ID:43811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2015 Pipe appears abandoned and is filled with soil. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel gravity drainage pipe through the levee, 8 feet below the crown. Hole in the concrete retaining wall on the landside (LS) slope, measures 10 inches in diameter. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 3/4/2015 4:41:00 PM						

LM Start	0.05	Rating **	M	Issue No.	31 (cont)
LM End	0.05	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_43811_73162.jpg



10-inch hole in concrete retaining wall likely for this pipe. Visible on LS toe. Portion of pipe visible.

Photo 2 of 3 : UCIP_FA_2019_43811_73161.jpg



10-inch hole in concrete retaining wall likely for this pipe. Visible 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.05	Rating **	M	Issue No.	31 (cont)	
LM End	0.05	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.258347 °	38.258347 °	
				-121.517169 °	-121.517169 °	
DWR ID	18970					
Comment Code						
Inspector Comment						
DS_ID:18970 FS_ID:43811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2015 Pipe appears abandoned and is filled with soil. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel gravity drainage pipe through the levee, 8 feet below the crown. Hole in the concrete retaining wall on the landside (LS) slope, measures 10 inches in diameter. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 3/4/2015 4:41:00 PM						

Photo 3 of 3 : UCIP_FA_2019_43811_73160.jpg



View of WS. No pipe found.

LM Start	0.07	Rating **	M	Issue No.	20
LM End	0.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.258223 °	38.257943 °
				-121.516918 °	-121.516490 °
DWR ID	DWR_RD0369_01_f_2019_20				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.09	Rating **	U	Issue No.	32	
LM End	0.09	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.257953 °	38.257953 °	
				-121.516613 °	-121.516613 °	
DWR ID	25084					
Comment Code						
Inspector Comment						
DS_ID:25084 FS_ID:53396 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Pipe shows more signs of corrosion. Unable to find pipe on WS. (O.Yakimov-DWR UCIP)06/01/2016 Same as last inspection. (K. Fazel - UCIP)03/04/2015 Severe corrosion and holes visible in pipe on LS shoulder. Pipe appears abandoned and should be done so properly. (W. Wyle - FPIIB) FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose through the levee, 1 foot below the crown. Pipe visible on the landside (LS) slope just in front of the gate on the LS shoulder. [Additional Reference(s): USACE Sacramento O&M Manual 111, May 1959, (RM 27.87), O&M Manual misidentifies this location as RM 28.87]. FS Date: 7/1/2018						

LM Start	0.09	Rating **	U	Issue No.	32 (cont)
LM End	0.09	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_53396_73331.jpg



Pipe visible on LS slope.

Photo 2 of 3 : UCIP_FA_2019_53396_73332.jpg



Pipe visible at gate 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.09	Rating **	U	Issue No.	32 (cont)	
LM End	0.09	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.257953 °	38.257953 °	
				-121.516613 °	-121.516613 °	
DWR ID	25084					
Comment Code						
Inspector Comment						
DS_ID:25084 FS_ID:53396 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Pipe shows more signs of corrosion. Unable to find pipe on WS. (O.Yakimov-DWR UCIP)06/01/2016 Same as last inspection. (K. Fazel - UCIP)03/04/2015 Severe corrosion and holes visible in pipe on LS shoulder. Pipe appears abandoned and should be done so properly. (W. Wyle - FPIIB) FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose through the levee, 1 foot below the crown. Pipe visible on the landside (LS) slope just in front of the gate on the LS shoulder. [Additional Reference(s): USACE Sacramento O&M Manual 111, May 1959, (RM 27.87), O&M Manual misidentifies this location as RM 28.87]. FS Date: 7/1/2018						

Photo 3 of 3 : UCIP_FA_2019_53396_75199.jpg



LS slope: view of pipe.

LM Start	0.10	Rating **	M	Issue No.	4
LM End	0.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.257819 °	38.257819 °
				-121.516427 °	-121.516427 °
DWR ID	DWR_RD0369_01_s_2012_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping on landside shoulder needs to be maintained.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.11	Rating **	M	Issue No.	13
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.257772 °	38.257573 °
				-121.516248 °	-121.516190 °
DWR ID	DWR_RD0369_01_f_2019_13				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Ivy					

No Photos

LM Start	0.13	Rating **	M	Issue No.	21
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.257673 °	38.257673 °
				-121.516052 °	-121.516052 °
DWR ID	DWR_RD0369_01_f _ 2018_21				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limb from the landside slope.					

Photo 1 of 1 : FA_2019_RD0369_207_21_20190826_00008.jpg



View of tree limb on the landside slope (November 2018).

LM Start	0.18	Rating **	M	Issue No.	10
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.257137 °	38.257137 °
				-121.515407 °	-121.515407 °
DWR ID	DWR_RD0369_01_f_2019_10				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Large path created by fishermen. Levee is extra wide in this section					

Photo 1 of 1 : FA_2019_RD0369_207_10_20191024_00031.jpg



View looking slightly upstream erosion due to foot traffic on the waterside slope (Fall 2019).

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.19	Rating **	U	Issue No.	18
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.257027°	38.257027°
				-121.515188°	-121.515188°
DWR ID	DWR_RD0369_01_s_2019_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0369_207_18_20191024_00033.jpg



View looking upstream at landscaping trees on the landside slope (Fall 2019).

LM Start	0.20	Rating **	U	Issue No.	12
LM End	0.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.256953 °	38.256953 °
				-121.515067 °	-121.515067 °
DWR ID	DWR_RD0369_01_f_2019_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	0.25	Rating **	C	Issue No.	9
LM End	0.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.256372°	38.252597°
				-121.514504°	-121.511130°
DWR ID	DWR_RD0369_01_s_2017_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Spray the weed growth along the waterside slope to 20' from crown.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.27	Rating **	M	Issue No.	17
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.256133°	38.256133°
				-121.514162°	-121.514162°
DWR ID	DWR_RD0369_01_f_2018_17				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Remove some tree branches to allow better visibility and access.					

Photo 1 of 1 : FA_2019_RD0369_207_17_20190826_00006.jpg



View of relatively thick tree branches on the waterside slope (November 2018).

LM Start	0.30	Rating **	C	Issue No.	23
LM End	0.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.255880 °	38.255880 °
				-121.513865 °	-121.513865 °
DWR ID	DWR_RD0369_01_s_2019_23				
Comment Code					
DE : Debris					
Inspector Comment					
Debris on the waterside shoulder should be removed before more debris is put there.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

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

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.35	Rating **	M	Issue No.	33	
LM End	0.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.255250 °	38.255250 °	
				-121.513210 °	-121.513210 °	
DWR ID	18972					
Comment Code						
Inspector Comment						
DS_ID:18972 FS_ID:43814 EP_NO: 11117 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/15/2012 Siphon breaker on LS slope needs protection. Water is leaking from pump station. Abandoned concrete structure found on WS. 10-inch abandoned pipe found on WS. Should be removed. 6-inch abandoned pipe found on WS. Should be removed. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, 4.5 feet below the crown. Pump and gate valve on the waterside (WS) shoulder. Siphon breaker on the landside (LS) slope. 6-inch abandoned pipe also found on the WS. (Retention of a 10-inch pipe through the levee, 4.5 feet below the crown, and a pump in a pump house on the WS slope authorized under Automatic Board Order (ABO) issued as Permit No. 11117, 1975 - Erma E. Locke, et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 111, May 1959, (RM 27.63), referenced as invert elevation 3.8 feet below the crown]. FS Date: 10/15/2012 4:11:00 PM						

LM Start	0.35	Rating **	M	Issue No.	33 (cont)
LM End	0.35	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_43814_10460.jpg



Waterside view: overview of pipe & pump and abandoned concrete structure (left). Shutoff Valve.

Photo 2 of 3 : UCIP_FA_2019_43814_10456.jpg



Waterside view: water leaking pump station.

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.35	Rating **	M	Issue No.	33 (cont)	
LM End	0.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.255250 °	38.255250 °	
				-121.513210 °	-121.513210 °	
DWR ID	18972					
Comment Code						
Inspector Comment						
DS_ID:18972 FS_ID:43814 EP_NO: 11117 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/15/2012 Siphon breaker on LS slope needs protection. Water is leaking from pump station. Abandoned concrete structure found on WS. 10-inch abandoned pipe found on WS. Should be removed. 6-inch abandoned pipe found on WS. Should be removed. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, 4.5 feet below the crown. Pump and gate valve on the waterside (WS) shoulder. Siphon breaker on the landside (LS) slope. 6-inch abandoned pipe also found on the WS. (Retention of a 10-inch pipe through the levee, 4.5 feet below the crown, and a pump in a pump house on the WS slope authorized under Automatic Board Order (ABO) issued as Permit No. 11117, 1975 - Erma E. Locke, et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 111, May 1959, (RM 27.63), referenced as invert elevation 3.8 feet below the crown]. FS Date: 10/15/2012 4:11:00 PM						

Photo 3 of 3 : UCIP_FA_2019_43814_10459.jpg



Waterside view: overview of active pipe and two abandoned pipes.

LM Start	0.35	Rating **	M	Issue No.	11
LM End	0.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.255250 °	38.255250 °
				-121.513207 °	-121.513207 °
DWR ID	DWR_RD0369_01_s_2019_11				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree limbs from the landside slope.					

Photo 1 of 1 : FA_2019_RD0369_207_11_20190826_00004.jpg



View of fallen limbs on the landside slope (Spring 2019).

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.41	Rating **	C	Issue No.	24
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.254607 °	38.253073 °
				-121.512657 °	-121.511388 °
DWR ID	DWR_RD0369_01_s_2019_24				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees to allow visibility down the waterside slope.					

No Photos

LM Start	0.50	Rating **	M	Issue No.	34
LM End	0.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.253468 °	38.253468 °
				-121.511654 °	-121.511654 °
DWR ID	18981				
Comment Code					
Inspector Comment					
DS_ID:18981 FS_ID:43815 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Found abandoned pipe laying on WS levee slope. Pipe purpose and status should be determined. further investigation required. FIELD_STRUCT_DESC: 8-inch steel pipe of an unknown purpose running parallel to the levee crown on the waterside (WS) slope, 4.5 feet below the crown. This pipe was field discovered. FS Date: 3/4/2015					

Photo 1 of 2 : UCIP_FA_2019_43815_73301.jpg



Pipe visible on WS slope running parallel to crown.

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.50	Rating **	M	Issue No.	34 (cont)	
LM End	0.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.253468 °	38.253468 °	
				-121.511654 °	-121.511654 °	
DWR ID	18981					
Comment Code						
Inspector Comment						
DS_ID:18981						
FS_ID:43815						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Found abandoned pipe laying on WS levee slope.						
Pipe purpose and status should be determined. further investigation required.						
FIELD_STRUCT_DESC: 8-inch steel pipe of an unknown purpose						
running parallel to the levee crown on the waterside (WS) slope, 4.5						
feet below the crown. This pipe was field discovered.						
FS Date: 3/4/2015						

Photo 2 of 2 : UCIP_FA_2019_43815_73300.jpg



Pipe on WS slope running parallel to levee crown.

LM Start	0.52	Rating **	M	Issue No.	19
LM End	0.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.253273 °	38.253273 °
				-121.511505 °	-121.511505 °
DWR ID	DWR_RD0369_01_f_2018_19				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limb from the landside slope.					

Photo 1 of 1 : FA_2019_RD0369_207_19_20190826_00007.jpg



View of tree limb on the land sideslope (November 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.57	Rating **	M	Issue No.	25
LM End	0.60	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.252662 °	38.252247 °
				-121.511138 °	-121.510922 °
DWR ID	DWR_RD0369_01_s_2019_25				
Comment Code					
FE : Fence					
Inspector Comment					
A chainlink fence is located on the waterside slope.					

Photo 1 of 1 : FA_2019_RD0369_207_25_20190826_00011.jpg



View looking downstream at chainlink fence on the waterside slope (Spring 2019).

LM Start	0.57	Rating **	U	Issue No.	26
LM End	0.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.252662 °	38.252247 °
				-121.511138 °	-121.510922 °
DWR ID	DWR_RD0369_01_s_2019_26				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation on chainlink fence is blocking view down waterside slope.					

Photo 1 of 1 : FA_2019_RD0369_207_26_20190826_00012.jpg



View looking downstream at the chainlink on the waterside shoulder and slope (Spring 2019).

LM Start	0.58	Rating **	M	Issue No.	14
LM End	0.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.252494 °	38.252494 °
				-121.510961 °	-121.510961 °
DWR ID	DWR_RD0369_01_s_2018_14				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree and branches should be removed from landside toe.					

Photo 1 of 1 : FA_2019_RD0369_207_14_20190826_00005.jpg



Remove fallen tree and branches from landside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

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

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.61	Rating **	U	Issue No.	35
LM End	0.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.252176 °	38.252176 °
				-121.510833 °	-121.510833 °
DWR ID	18977				

Comment Code

Inspector Comment

DS_ID:18977
FS_ID:53524
EP_NO: 14313
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/12/2018 Pipe is covered by thick layer of dry debris on LS. Patch repair along pipe alignment is visible on levee crown. (O.Yakimov-DWR UCIP)06/01/2016 Could not locate pipe. Likely buried next to leach box. Could not find signs of leaking or presence of water or erosion. Pipe may still be leaking but buried. (K. Fazel - UCIP)03/04/2015 Septic line appears to be leaking at LS toe. Erosion of soil and wet soil visible at LS toe. No septic smell accompanied other evidence at site. (W. Wylie - FPIIB)
FIELD_STRUCT_DESC: 3 of 3: 2-inch galvanized steel sewer line through the levee, 1 foot below the crown. Metal cutoff wall placed around the pipe near the centerline of the levee. 4-foot by 6-foot concrete box at the landside (LS) toe. Sewer line runs through the property of the district president, Clarence Chu, at ckchu52@comcast.net, (916) 776-1684, and (916) 813-7037. (Plans to install three utility pipes through the levee authorized under Permit No. 14313, 1986 - Frank and Genie Schmiedel. Plans to construct a 59-covered-berth addition to an existing boat dock, extending approximately 60 feet into the Sacramento River, authorized under Permit No. 13783, 1984 - Frank and Genie Schmiedel, mentions the leach line for the septic system).
FS Date: 7/12/2018

LM Start	0.61	Rating **	U	Issue No.	35 (cont)
LM End	0.61	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_53524_73166.jpg



View at crossing through crown on LS shoulder from WS shoulder.
Evidence of trench visible at cut in pavement.

Photo 2 of 3 : UCIP_FA_2019_53524_73167.jpg



Waterside view. Unclear if there is a sewer cleanout or other evidence of pipe location 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.61	Rating **	U	Issue No.	35 (cont)	
LM End	0.61	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.252176 °	38.252176 °	
				-121.510833 °	-121.510833 °	
DWR ID	18977					
Comment Code						
Inspector Comment						
DS_ID:18977 FS_ID:53524 EP_NO: 14313 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 07/12/2018 Pipe is covered by thick layer of dry debris on LS. Patch repair along pipe alignment is visible on levee crown. (O.Yakimov-DWR UCIP)06/01/2016 Could not locate pipe. Likely buried next to leach box. Could not find signs of leaking or presence of water or erosion. Pipe may still be leaking but buried. (K. Fazel - UCIP)03/04/2015 Septic line appears to be leaking at LS toe. Erosion of soil and wet soil visible at LS toe. No septic smell accompanied other evidence at site. (W. Wylie - FPIIB) FIELD_STRUCT_DESC: 3 of 3: 2-inch galvanized steel sewer line through the levee, 1 foot below the crown. Metal cutoff wall placed around the pipe near the centerline of the levee. 4-foot by 6-foot concrete box at the landside (LS) toe. Sewer line runs through the property of the district president, Clarence Chu, at ckchu52@comcast.net, (916) 776-1684, and (916) 813-7037. (Plans to install three utility pipes through the levee authorized under Permit No. 14313, 1986 - Frank and Genie Schmiedel. Plans to construct a 59-covered-berth addition to an existing boat dock, extending approximately 60 feet into the Sacramento River, authorized under Permit No. 13783, 1984 - Frank and Genie Schmiedel, mentions the leach line for the septic system). FS Date: 7/12/2018						

Photo 3 of 3 : UCIP_FA_2019_53524_73168.jpg



Septic line leaking at LS toe. Erosion of soil at toe visible.

LM Start	0.62	Rating **	U	Issue No.	29
LM End	0.67	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.251982 °	38.251267 °
				-121.510853 °	-121.510480 °
DWR ID	DWR_RD0369_01_s_2019_29				
Comment Code					
FE : Fence					
Inspector Comment					
A fence is blocking the view of the waterside slope.					

Photo 1 of 1 : FA_2019_RD0369_207_29_20190826_00013.jpg



View of fence on the waterside shoulder (Spring 2019).

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0369 Libby McNeil

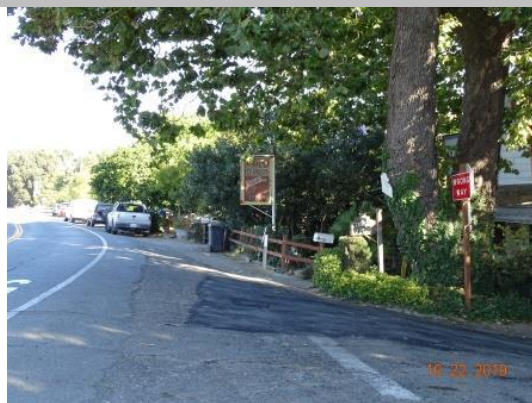
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	10/22/2019 10/22/2019	David Julian

LM Start	0.66	Rating **	M	Issue No.	15
LM End	0.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.251403 °	38.251403 °
				-121.510532 °	-121.510532 °
DWR ID	DWR_RD0369_01_s_2012_15				
Comment Code					
FE : Fence					
Inspector Comment					
A tall, white, solid fence is blocking the view of the landside levee slope.					

No Photos

LM Start	0.74	Rating **	M	Issue No.	8
LM End	0.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.250340 °	38.249930 °
				-121.510135 °	-121.509880 °
DWR ID	DWR_RD0369_01_s_2017_8				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping needs to be thinned and maintained to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : FA_2019_RD0369_207_8_20191024_00032.jpg



View looking upstream at landscaping on the landside slope (Fall 2019).

*** 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