

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2022 Levee Maintenance Deficiency Summary Report**

**San Joaquin River Basin**

RD2091	Overall LMA Rating	Total LMA Miles							
Reclamation District No. 2091 Chase			A	7.51					
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	0.02		0.02	0.27%					
Supplemental									
DWR UCIP Field Study					0.04	0.01			
DWR UCIP LMA Responsibility									
LMA Totals:	0.02	0.00	0.02	0.27%	0.04	0.01	0.00	0.00	

Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles							
RD2091			A	7.46					
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Supplemental									
DWR UCIP Field Study					0.03	0.01			
DWR UCIP LMA Responsibility									
Unit Totals:	0.00	0.00	0.00	0.00%	0.03	0.01	0.00	0.00	

Unit No. 02 San Joaquin River NA	Overall Unit Rating	Total Unit Miles							
RD2091			U	0.05					
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	0.02		0.02	40.00%					
Supplemental									
DWR UCIP Field Study					0.01				
Unit Totals:	0.02	0.00	0.02	40.00%	0.01	0.00	0.00	0.00	

**Flood Control Project Maintenance  
Levee Inspections  
LMA District Cover Sheet**

**Reclamation District No. 2091 Chase**

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

\*\* 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**

**Reclamation District No. 2091 Chase**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	7.46
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/22/2022 - 3/22/2022		9/8/2022 - 9/8/2022	
DWR Inspector	Corey Fujitani		Corey Fujitani	
Accompanied By	Mike Alves City of Modesto		Mike Alves City of Modesto	

**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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.00	Rating **	A	Issue No.	2	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				°	°
					°	°
DWR ID	DWR_RD2091_01_s_2013_2					
Comment Code						
OM : O&M Manuals						
Inspector Comment						
The LMA has copy of O & M manual on file at district office.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	4	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	°
					°	
DWR ID	DWR_RD2091_01_s_2013_4					
Comment Code						
ES : Emergency Supplies & Equipment						
Inspector Comment						
The LMA maintains adequate flood fight supplies and equipment.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD2091_01_s_2013_5				
Comment Code					
FP : Flood Preparedness & Training					
Inspector Comment					
The LMA maintains a good working knowledge of flood response activities but has not recently received flood fight training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.10	Rating **	M	Issue No.	46
LM End	0.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.542030 °	37.542030 °
				-121.094370 °	-121.094370 °
DWR ID	23156				

**Comment Code**

**Inspector Comment**

DS\_ID:23156  
FS\_ID:74080  
EP\_NO: N/A  
Repair Type: Non-Urgent  
EVAL Issue: 4b, Safety Issue  
Crossing Status: Found  
UCIP Comments: 03/30/2022 Record remains Non-Urgent.  
Recommend owner to contact CVFPB to abandon or remove pipe from levee. No cover was present on CMP riser causing a safety hazard.  
(M.Thao - DWR UCIP)  
10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent. No integrity issues were observed along pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. Crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP)11/18/2016 Same as last inspection this is a non-functional crossing with no visible inlet on LS or outlet on WS. The only appurtenance found at this location is a CMP riser with a missing cover located on the WS. This crossing remains Urgent since the pipe on the WS may still be opened. According to Mike Alves, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly. (W. Wylie - City of Modesto)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser located on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.10), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 907+55)].  
FS Date: 3/30/2022

Photo 1 of 1 : UCIP\_FA\_2022\_74080\_110641.jpg



WS view: Looking into CMP riser; no cover.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.13	Rating **	A	Issue No.	17
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.541963 °	37.541963 °
				-121.094869 °	-121.094869 °
DWR ID	DWR_RD2091_01_f _ 2022_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained.					

Photo 1 of 1 : FA\_2022\_RD2091\_318\_17\_20220915\_00002.jpg



View of the landside slope looking upstream. (Fall 2022)

LM Start	0.14	Rating **	M	Issue No.	47	
LM End	0.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.541934 °		37.541934 °
				-121.094992 °		-121.094992 °
DWR ID	23157					
Comment Code						
Inspector Comment						
DS_ID:23157 FS_ID:74084 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: Crossing Status: Not Found UCIP Comments: 03/30/2022 Record updated from No Action Needed to Non-Urgent. Crossing not found. Geophysical study indicates possible presence of pipe through levee. Owner needs to coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. (M.Thao - DWR UCIP)  FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Drain off the landside (LS) toe. Flap gate on the waterside (WS). Flashboards on the LS. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.13), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 909+60)]. FS Date: 3/30/2022						

Photo 1 of 3 : UCIP\_FA\_2022\_74084\_110660.jpg



Levee crown looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	<b>0.14</b>	Rating **	M	Issue No.	<b>47 (cont)</b>
LM End	<b>0.14</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.541934 °	37.541934 °	
			-121.094992 °	-121.094992 °	
DWR ID	23157				

Photo 2 of 3 : UCIP\_FA\_2022\_74084\_110661.jpg



LS view: Looking from crown; general overview looking at slope of wastewater settling ponds embankment.

LM Start	<b>0.14</b>	Rating **	M	Issue No.	<b>47 (cont)</b>
LM End	<b>0.14</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2022\_74084\_110662.jpg



WS view: Looking from crown; general overview.

LM Start	0.23	Rating **	A/W	Issue No.	15
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541550 °	37.541550 °
				-121.096742 °	-121.096742 °
DWR ID	DWR_RD2091_01_s_2016_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on landward shoulder noted in 2017 possible collapsed pipe. Monitor for potential reoccurrence.					

Photo 1 of 1 : FA\_2022\_RD2091\_318\_15\_20220822\_00001.jpg



Looking west along the landside shoulder. (Spring 2020)

* 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**

**Levee Inspection Report By Mile - Fall 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.24	Rating **	U	Issue No.	48	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.541564 °	37.541564 °	
				-121.096792 °	-121.096792 °	
DWR ID	23158					
Comment Code						
Inspector Comment						
DS_ID:23158 FS_ID:74087 EP_NO: N/A Repair Type: Urgent EVAL Issue: 3a, Flood Risk Crossing Status: Found UCIP Comments: 03/30/2022 Record updated from Non-Urgent to Urgent. Flap gate has fallen off at pipe outlet on WS. More than 1/2-foot subsidence was observed on the bank slope above the pipe alignment, but appears to be outside the levee prism. Crossing appears abandoned. Recommend owner to contact CVFPB to abandon or remove pipe from levee. (M.Thao - DWR UCIP) 10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent, no integrity issues were observed along the pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. This crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP)11/18/2016 Same as last inspection. This crossing remains Urgent due to the flap gate still missing from the WS toe. According to Mike Alves, this crossing is an abandoned line and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Drain opening is located approximately 15 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.23), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 915+00)]. FS Date: 3/30/2022						

Photo 1 of 2 : UCIP\_FA\_2022\_74087\_110679.jpg



WS view: Depression on berm above pipe alignment; headwall and outlet visible on left.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.24	Rating **	U	Issue No.	48 (cont)
LM End	0.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.541564 °	37.541564 °
				-121.096792 °	-121.096792 °
DWR ID	23158				

Photo 2 of 2 : UCIP\_FA\_2022\_74087\_110680.jpg



WS view: Close-up view of headwall and pipe outlet; flap gate has fallen off.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.40	Rating **	M	Issue No.	49	
LM End	0.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.540936 °	37.540936 °	
				-121.099600 °	-121.099600 °	
DWR ID	23160					
Comment Code						
Inspector Comment						
DS_ID:23160 FS_ID:74367 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: Crossing Status: Found UCIP Comments: 03/30/2022 Record updated from No Action Needed to Non-Urgent. Crossing appears abandoned. Geophysical study indicates possible presence of pipe through levee. Coordinates have been updated from 37.540948, -121.099691 to 37.540936, -121.099600. Owner needs to coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. Recommend owner to contact CVFPB to abandon or remove pipe from levee. There was a sinkhole present on LS approximately 20 feet off levee toe located at base of the wastewater settle ponds embankment; an approximate 30-inch diameter CMP riser was observed within the sinkhole. Subsidence and erosion was observed, outside the levee prism, on WS berm slope above the pipe alignment. (M.Thao - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwalls on both ends. Landside (LS) end covered with dirt. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.40), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 923+70)]. FS Date: 3/30/2022						

Photo 1 of 3 : UCIP\_FA\_2022\_74367\_110745.jpg



Levee crown looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.40	Rating **	M	Issue No.	49 (cont)
LM End	0.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.540936 °	37.540936 °
				-121.099600 °	-121.099600 °
DWR ID	23160				

Photo 2 of 3 : UCIP\_FA\_2022\_74367\_110746.jpg



LS view: Looking from crown; sinkhole at toe of wastewater settling pond embankment.

LM Start	<b>0.40</b>	Rating **	M	Issue No.	<b>49 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2022\_74367\_110747.jpg



LS view: Close-up view of sink hole and CMP riser at toe of wastewater settling pond embankment.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.63	Rating **	U	Issue No.	50	
LM End	0.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.541220 °		37.541220 °
				-121.103880 °		-121.103880 °
DWR ID	23161					
Comment Code						
Inspector Comment						
DS_ID:23161 FS_ID:74260 EP_NO: N/A Repair Type: Urgent EVAL Issue: 3a, Flood Risk Crossing Status: Found UCIP Comments: 03/30/2022 Record updated from Non-Urgent to Urgent. Flap gate is slightly opened and appears to be due to the outlet angling downward. Crossing appears abandoned. Recommend owner to contact CVFPB to abandon or remove pipe from levee. (M.Thao - DWR UCIP) 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent since the flap gate appears to fully close. According to Mike Alvez, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate and concrete headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.64)]. FS Date: 3/30/2022						

LM Start	<b>0.63</b>	Rating **	U	Issue No.	<b>50 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2022\_74260\_110906.jpg



Levee crown looking upstream.

Photo 2 of 3 : UCIP\_FA\_2022\_74260\_110903.jpg



LS view: Looking from crown; general overview looking at slope of wastewater settling pond embankment.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.63	Rating **	U	Issue No.	50 (cont)
LM End	0.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.541220 °	37.541220 °
				-121.103880 °	-121.103880 °
DWR ID	23161				

Photo 3 of 3 : UCIP\_FA\_2022\_74260\_110904.jpg



WS view: Looking from crown; general overview.

LM Start	2.15	Rating **	A/W	Issue No.	25
LM End	2.15	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.525220 °	37.525220 °
				-121.097700 °	-121.097700 °
DWR ID	199-1				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:124					
Site Designation:199-1					

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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	2.41	Rating **	M	Issue No.	51	
LM End	2.41	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.522150 °		37.522150 °
				-121.095630 °		-121.095630 °
DWR ID	23162					
Comment Code						
Inspector Comment						
DS_ID:23162 FS_ID:74297 EP_NO: 5560 Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit Crossing Status: Found UCIP Comments: 03/30/2022 Record updated from No Action Needed to Non-Urgent. A fish screen has been added to the concrete headwall at the WS toe; unable to find a permit for modification. (M.Thao - DWR UCIP)  FIELD_STRUCT_DESC: 1 of 3: 48-inch by 48-inch concrete treated effluent culvert through the levee, 28.5 feet below the crown. Slide gate on the waterside (WS) shoulder. Flap gate on the WS toe. (Permit No. 5560, 1967 - City of Modesto. Design drawings available in permit). [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 3/30/2022						

Photo 1 of 1 : UCIP\_FA\_2022\_74297\_110967.jpg



WS view: Headwall off toe; fish screen added since last inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	2.41	Rating **	M	Issue No.	52
LM End	2.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.522130 °	37.522130 °
				-121.095630 °	-121.095630 °
DWR ID	23163				
Comment Code					
Inspector Comment					
DS_ID:23163 FS_ID:74296 EP_NO: 5560 Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit Crossing Status: Found UCIP Comments: 03/30/2022 Record updated from No Action Needed to Non-Urgent. A fish screen has been added to the concrete headwall at the WS toe; unable to find a permit for modification. (M.Thao - DWR UCIP) FIELD_STRUCT_DESC: 2 of 3: 36-inch steel sewer pipe through the levee, 3 feet below the crown. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Butterfly valve next to pump off the landside (LS) toe. Concrete U-shaped headwall off the WS toe. (Permit No. 5560, 1967 - City of Modesto. Design drawings available in permit). [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 3/30/2022					

Photo 1 of 1 : UCIP\_FA\_2022\_74296\_110974.jpg



WS view: Concrete headwall off toe; fish screen added since last inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	2.41	Rating **	M	Issue No.	53	
LM End	2.41	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.522108 °	37.522108 °	
				-121.095591 °	-121.095591 °	
DWR ID	23171					
Comment Code						
Inspector Comment						
DS_ID:23171 FS_ID:74295 EP_NO: 5560 Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit Crossing Status: Found UCIP Comments: 03/30/2022 Record updated from No Action Needed to Non-Urgent. A fish screen has been added to the concrete headwall at the WS toe; unable to find a permit for modification. All siphon breaker components appear to be present and in working order within the CMP riser. (M.Thao - DWR UCIP) 10/15/2013 Siphon breaker missing components at CMP riser on WS shoulder. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3 of 3: 36-inch steel sewer pipe through the levee, 3 feet below the crown. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Pump and butterfly valve off the landside (LS) toe. Concrete U-shaped headwall on the WS slope. (Permit No. 5560, 1967 - City of Modesto. Design drawings available in permit). [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 3/30/2022						

Photo 1 of 1 : UCIP\_FA\_2022\_74295\_110982.jpg



WS view: Concrete headwall off toe; fish screen added since last inspection.

LM Start	2.41	Rating **	A/W	Issue No.	26
LM End	2.49	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.522090 °	37.521140 °
				-121.095580 °	-121.095080 °
DWR ID	DWR_RD2091_01_R_2012_05				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:125					
Site Designation: DWR_RD2091_01_R_2012_05					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	2.84	Rating **	A/W	Issue No.	38
LM End	3.46	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.519210 °	37.511720 °
				-121.089010 °	-121.087380 °
DWR ID	199-105				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:128					
Site Designation:199-105					

No Photos

LM Start	2.87	Rating **	A/W	Issue No.	18
LM End	4.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.518644 °	37.499551 °
				-121.089180 °	-121.080847 °
DWR ID	DWR_RD2091_01_f_2022_18				
Comment Code					
LC : Authorized Levee Construction					
Inspector Comment					
Seepage and stability berms being constructed under permit 19330 at LM 2.87-3.94, 4.5-5.01, 5.7-5.75, 6.08, and 6.38-6.88					

Photo 1 of 1 : FA\_2022\_RD2091\_318\_18\_20220915\_00003.jpg



View of construction being performed on landside of levee section. (Fall 2022)

LM Start	4.44	Rating **	A/W	Issue No.	39
LM End	4.54	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.499440 °	37.498040 °
				-121.080720 °	-121.080720 °
DWR ID	DWR_RD2091_01_R_2012_02				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:131					
Site Designation: DWR_RD2091_01_R_2012_02					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	4.57	Rating **	A/W	Issue No.	40
LM End	5.00	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.497780 °	37.492630 °
				-121.080340 °	-121.076070 °
DWR ID	199-100				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:130					
Site Designation: 199-100					

No Photos

LM Start	4.59	Rating **	U	Issue No.	54
LM End	4.59	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.497390 °	37.497390 °
				-121.080370 °	-121.080370 °
DWR ID	23165				
Comment Code					
Inspector Comment					
DS_ID:23165 FS_ID:74445 EP_NO: N/A Repair Type: Urgent EVAL Issue: 3a, Flood Risk Crossing Status: Found UCIP Comments: 03/30/2022 Record updated from Non-Urgent to Urgent. Crossing appears abandoned. Three pipe inlets were located on the river edge and appears to have been previously grouted and capped. Unsure if all inlets connect to the same pipe. Two capped inlets appear to be missing and opened on the WS. Unable to locate a permit and confirm proper pipe abandonment. Recommend owner to contact CVFPB to abandon or remove pipe from levee. A standpipe on the LS toe has been dismantled causing a safety hazard. (M.Thao - DWR UCIP) 10/15/2013 Appears abandoned and if so should be done so properly. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 15 feet below the crown. Abandoned concrete inlet box on the waterside (WS) slope of the levee. 6-foot by 5-foot concrete distribution box at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 4.67), 30-inch pipe listed]. FS Date: 3/30/2022					

Photo 1 of 3 : UCIP\_FA\_2022\_74445\_111011.jpg



Levee crown looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	<b>4.59</b>	Rating **	U	Issue No.	<b>54 (cont)</b>
LM End	<b>4.59</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.497390 °	37.497390 °	
			-121.080370 °	-121.080370 °	
DWR ID	23165				

Photo 2 of 3 : UCIP\_FA\_2022\_74445\_111012.jpg



LS view: Looking from crown; distribution box on toe.

LM Start	<b>4.59</b>	Rating **	U	Issue No.	<b>54 (cont)</b>
LM End	<b>4.59</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_FA\_2022\_74445\_111009.jpg



LS view: Distribution box on toe; adjacent standpipe (right) dismantled causing safety hazard.

LM Start	5.60	Rating **	A/W	Issue No.	42
LM End	5.65	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.486820 °	37.486220 °
				-121.068100 °	-121.067530 °
DWR ID	199-101				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:129					
Site Designation:199-101					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/08/2022 09/08/2022	Corey Fujitani

LM Start	5.99	Rating **	A/W	Issue No.	43
LM End	5.99	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.486490 °	37.486490 °
				-121.062270 °	-121.062270 °
DWR ID	199-4				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:127					
Site Designation:199-4					

No Photos

LM Start	6.29	Rating **	A/W	Issue No.	44
LM End	6.75	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.485040 °	37.481740 °
				-121.057680 °	-121.052910 °
DWR ID	199-106				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					
2017 Storm Damage					
Site ID No:126					
Site Designation:199-106					

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  
Unit Cover Sheet**

**Reclamation District No. 2091 Chase**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.05
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/22/2022 - 3/22/2022		9/8/2022 - 9/8/2022	
DWR Inspector	Corey Fujitani		Corey Fujitani	
Accompanied By	Mike Alves City of Modesto		Mike Alves City of Modesto	

**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 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	09/08/2022 09/08/2022	Corey Fujitani

LM Start	0.02	Rating **	M	Issue No.	4
LM End	0.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.482450 °	37.482450 °
				-121.051220 °	-121.051220 °
DWR ID	23175				
Comment Code					
Inspector Comment					
DS_ID:23175 FS_ID:75664 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue Crossing Status: Found UCIP Comments: 03/30/2022 Record remains Non-Urgent. Dense vegetation prevented location of the flap gate on the WS and proper inspection of levee along pipe alignment on WS; recommend clearing vegetation. Unable to locate a permit and confirm proper pipe abandonment. Recommend owner to contact CVFPB to abandon or remove pipe from levee. (M.Thao - DWR UCIP) 11/18/2016 Same as last inspection. This is a non-functional crossing with flap gate in the closed position. This crossing has been downgraded from Urgent to Non-Urgent -- no integrity issues were observed on the levee crown or slopes. According to Mike A. this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Flap gate rusted in-place and does not function. In closed position. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16.4 feet below the crown. Flap gate on the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 3/30/2022					

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>4 (cont)</b>
LM End	<b>0.02</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2022\_75664\_111084.jpg



Overview of levee crown.

Photo 2 of 3 : UCIP\_FA\_2022\_75664\_111086.jpg



LS view: Looking from crown; general overview.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 2091 Chase

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2022**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	09/08/2022 09/08/2022	Corey Fujitani

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