

Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet

Reclamation District No. 2089 Stark

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

** 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. 2089 Stark

Waterway	Bank	Unit Miles
Unit No. 01 Old River	Right	1.51

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/3/2024 - 4/3/2024			
DWR Inspector	Alberto De Leon			
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				o
					o
DWR ID	DWR_RD2089_01_s_2013_4				
Comment Code					
OM : O&M Manuals					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	15
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				o
					o
DWR ID	DWR_RD2089_01_s_2013_15				
Comment Code					
ES : Emergency Supplies & Equipment					
Inspector Comment					
The LMA has access to flood fighting supplies.					

No Photos

LM Start		Rating **	A	Issue No.	34
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				o
					o
DWR ID	DWR_RD2089_01_f_2022_34				
Comment Code					
FP : Flood Preparedness & Training					
Inspector Comment					
LMA has a flood response plan in the office. It is recommended that the LMA and interested local volunteers take a flood fight training class in order to refresh their flood fight skills and methods.					

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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.00	Rating **	M	Issue No.	9
LM End	0.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811681°	37.809755°
				-121.384930°	-121.391520°
DWR ID	DWR_RD2089_01_s_2012_9				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_9_20240214_00004.jpg



View of an irrigation ditch within the landside easement. Fall 2021

LM Start	0.02	Rating **	U	Issue No.	19
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.811576°	37.806646°
				-121.385215°	-121.407861°
DWR ID	DWR_RD2089_01_f_2023_19				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_19_20240403_00028.jpg



Typical view of overgrown vegetation along the waterside slope. Spring 2024

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.02	Rating **	U	Issue No.	17
LM End	0.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.811577°	37.808962°
				-121.385216°	-121.397549°
DWR ID	DWR_RD2089_01_f _ 2023_17				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_17_20240403_00027.jpg



Typical view of overgrown vegetation along the landside slope and easement. Spring 2024

LM Start	0.02	Rating **	M	Issue No.	14
LM End	0.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.811551°	37.811551°
				-121.385287°	-121.385287°
DWR ID	DWR_RD2089_01_f_2022_14				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_14_20240403_00026.jpg



View of depression on crown of road. Spring 2024

LM Start	0.09	Rating **	M	Issue No.	20
LM End	0.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.811256°	37.811256°
				-121.386424°	-121.386424°
DWR ID	DWR_RD2089_01_f_2020_20				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
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		+ Issue Type 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

Levee Inspection Report By Mile - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.28	Rating **	M	Issue No.	13
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810228°	37.810228°
				-121.389711°	-121.389711°
DWR ID	DWR_RD2089_01_s_2022_13				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.33	Rating **	U	Issue No.	18
LM End	0.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.810009°	37.810009°
				-121.390635°	-121.390635°
DWR ID	DWR_RD2089_01_f_2022_18				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					
There is a large Arundo plant on the landside slope.					

Photo 1 of 1 : SP_2024_RD2089_316_18_20240403_00029.jpg



View of Arundo growing along the landside slope. Spring 2024

LM Start	0.45	Rating **	M	Issue No.	10
LM End	0.45	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.809515°	37.809515°
				-121.392733°	-121.392733°
DWR ID	DWR_RD2089_01_s_2024_10				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
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 - Spring 2024****Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.46	Rating **	M	Issue No.	49
LM End	0.46	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.809501°	37.809501°
				-121.392798°	-121.392798°
DWR ID	23042				

Comment Code**Inspector Comment**

DS_ID:23042
FS_ID:80813
EP_NO: 5641
Repair Type: Non-Urgent
EVAL Issue: 11, Maintenance Compliance Issue
Crossing Status: Found
UCIP Comments: 07/13/2023: Siphon breaker on landside still appears to be damaged. The pipe may be abandoned and no longer in use. (J. Singh - DWR UCIP)09/12/2013: damaged siphon breaker, most of the pipe on landside exposed on levee slope.
FIELD_STRUCT_DESC: 20-inch steel irrigation discharge pipe and electrical conduit through the levee, 5.8 feet below the crown. Pump on a pile structure in the stream. Siphon breaker on the landside (LS) slope. (Plans to replace a rusted out irrigation discharge pipe through the levee authorized under Permit No. 5641, 1967 - Theodore Stark).
[Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.46), 21-inch pipe referenced].
FS Date: 7/13/2023

LM Start	0.46	Rating **	M	Issue No.	49 (cont)
LM End	0.46	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2024_80813_116839.jpg



View of levee crown looking downstream.

Photo 2 of 3 : UCIP_SP_2024_80813_116840.jpg



View of waterside with steel walkway, electric box, and pump.

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.46	Rating **	M	Issue No.	49 (cont)
LM End	0.46	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.809501°	37.809501°
				-121.392798°	-121.392798°
DWR ID	23042				

Photo 3 of 3 : UCIP_SP_2024_80813_116841.jpg



View of landside with service pole and electric meter visible.

LM Start	0.62	Rating **	M	Issue No.	36
LM End	0.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.810144°	37.810144°
				-121.395578°	-121.395578°
DWR ID	DWR_RD2089_01_f _ 2019_36				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.65	Rating **	M	Issue No.	2
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809780°	37.809780°
				-121.396230°	-121.396230°
DWR ID	RD2089U01RM29.61				
Comment Code					
Inspector Comment					
Site ID: RD2089U01RM29.61					
8/30/2023: From 2021 to present, no significant changes were observed during the annual survey.					
8/25/21: Less levee slope vegetation has exposed bank undercutting. Increased erosion length to 100 feet.					
09/30/2020: Noticed less vegetation on the upper levee slope and surface erosion above the pocket erosion.					
08/14/2019: From 2011 to 2019, no significant changes were observed during the annual survey.					
09/07/2010: It was difficult to view the erosion due to the Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities.					
08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion."					
09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6, LM0.60; previously rated "U".					
11/05/2008: No change observed; rodent holes on lower slope; wide levee crown.					

Photo 1 of 1 : SP_2024_RD2089_316_2_20240214_00002.jpg



8/30/2023: View of the erosion.

LM Start	0.80	Rating **	M	Issue No.	22
LM End	0.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.808466 °	37.808466 °
				-121.397847 °	-121.397847 °
DWR ID	DWR_RD2089_01_f_2016_22				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_22_20240214_00010.jpg



View of steps on landside slope. Fall 2021

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.80	Rating **	U	Issue No.	50	
LM End	0.80	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.808387°	37.808387°	
				-121.397843°	-121.397843°	
DWR ID	23043					
Comment Code						
Inspector Comment						
DS_ID:23043 FS_ID:80758 EP_NO: 3385 Repair Type: Urgent EVAL Issue: 2b, Levee Integrity Crossing Status: Found UCIP Comments: 07/13/2023: Record remains urgent. Erosion visible on waterside slope and crest. No leak in pipe was found during inspection. 08/01/2022 Record updated from Non-Urgent to Urgent. DWR levee inspector reported that pipe has a leak near the waterside shoulder. The leak is causing erosion on the waterside slope under and near the pipe. Water leak on landside slope was noticed, concrete standpipe at landside toe leaks through its joints and overtops. (O.Yakimov - DWR UCIP) 09/12/2013 Powerline on landside. Electric control box on waterside, waterside slope erosion under pump platform. (P.Amatya - DWR UCIP) FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 5.5 feet below the crown. Two cutoff walls. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. (Plans for installation of a pumping plant on the riverbank and a pipe that crosses the levee authorized under Permit No. 3385, 1960 - Eleanor M. Lawrence). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.81)]. FS Date: 7/13/2023						

LM Start	0.80	Rating **	U	Issue No.	50 (cont)
LM End	0.80	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2024_80758_116848.jpg



View of crown looking downstream.

Photo 2 of 3 : UCIP_SP_2024_80758_116849.jpg



View of waterside with water pump and electric control box.

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.80	Rating **	U	Issue No.	50 (cont)
LM End	0.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.808387°	37.808387°
				-121.397843°	-121.397843°
DWR ID	23043				

Photo 3 of 3 : UCIP_SP_2024_80758_116850.jpg



View of landside with siphon breaker on the slope and concrete standpipe at the toe.

LM Start	0.92	Rating **	M	Issue No.	11
LM End	0.92	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.806661°	37.806661°
				-121.397716°	-121.397716°
DWR ID	DWR_RD2089_01_s_2024_11				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.99	Rating **	U	Issue No.	23
LM End	0.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			37.806128°	37.806128°
				-121.398648°	-121.398648°
DWR ID	DWR_RD2089_01_f_2023_23				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_23_20240403_00030.jpg



View of erosion rills on the landside slope. Spring 2024

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.00	Rating **	M	Issue No.	43
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806131°	37.806131°
				-121.398819°	-121.398819°
DWR ID	DWR_RD2089_01_s _ 2021_43				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.03	Rating **	M	Issue No.	35
LM End	1.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806033°	37.806033°
				-121.399246°	-121.399246°
DWR ID	DWR_RD2089_01_s _ 2021_35				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.05	Rating **	M	Issue No.	33
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805931°	37.805880°
				-121.399738°	-121.400034°
DWR ID	DWR_RD2089_01_s _ 2021_33				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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 - Spring 2024****Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.07	Rating **	U	Issue No.	21
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.805876°	37.805876°
				-121.399940°	-121.399940°
DWR ID	DWR_RD2089_01_s_2024_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_21_20240214_00009.jpg



View of animal burrows on the landside slope. Fall 2023

LM Start	1.14	Rating **	U	Issue No.	51
LM End	1.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.805644°	37.805644°
				-121.401177°	-121.401177°
DWR ID	23044				
Comment Code					
Inspector Comment					
DS_ID:23044 FS_ID:80815 EP_NO: 3585 Repair Type: Urgent EVAL Issue: 2b, Levee Integrity Crossing Status: Found UCIP Comments: 07/13/2023: Erosion on both slopes. Erosion was greater than 1-ft. Pipe leaks at coupling on landside. (J. Singh - DWR UCIP)11/15/2016: Section of previously-deteriorated pipe along LS berm has been replaced. LS slope and berm have been backfilled and repaired. Crossing has been downgraded from Urgent to No Action Needed. (K. Fazel - UCIP)09/12/2013: huge slope erosion on landside slope, most of the pipe exposed on levee slope, service pole on landside. FIELD_STRUCT_DESC: 12-inch steel drainage discharge pipe through the levee, 3 feet below the crown. Pump over concrete pipe in drainage ditch off the landside (LS) toe. Siphon breaker on the waterside (WS) slope. Air vent on the LS. Landowner is Kent Gikas, (209) 224-4652, kgikas@g-rem.com. (Plans for an existing 12-inch steel discharge pipe over the levee authorized under Permit No. 3585, 1961 - Eleanor Lawrence). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 1.15)]. FS Date: 7/13/2023					

Photo 1 of 3 : UCIP_SP_2024_80815_116854.jpg



View of levee crown looking downstream.

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.14	Rating **	U	Issue No.	51 (cont)
LM End	1.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.805644 °	37.805644 °
				-121.401177 °	-121.401177 °
DWR ID	23044				

Photo 2 of 3 : UCIP_SP_2024_80815_116856.jpg



Waterside view of pipe. Dense vegetation is visible

LM Start	1.14	Rating **	U	Issue No.	51 (cont)
LM End	1.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2024_80815_116855.jpg



View of landside berm and pipe.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.17	Rating **	M	Issue No.	1
LM End	1.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.805523°	37.805523°
				-121.401718°	-121.401718°
DWR ID	RD2089U01RM29.1				
Comment Code					
Inspector Comment					
Site ID: RD2089U01RM29.1 8/30/2023: From 2020 to present, no significant changes were observed during the annual survey. 09/22/2020: Noticed signs of animal burrowing activity. The upper levee slope has areas with exposed soil. Vegetation is limiting the view of the scarp. 09/26/2019: No significant change observed. 09/13/2017: The erosion is at the upstream of a small tree, inside of a slight river bend.					

Photo 1 of 1 : SP_2024_RD2089_316_1_20240214_00001.jpg



7/29/2022: View of the eroded slope looking downstream with bare soil off the levee shoulder.

LM Start	1.22	Rating **	U	Issue No.	3
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.805800°	37.805800°
				-121.402868°	-121.402868°
DWR ID	RD2089U01RM29.04				
Comment Code					
Inspector Comment					
Site ID: RD2089U01RM29.04					
8/30/2023: From 2013 to present, no significant changes were observed during the annual survey.					
08/13/2013: The erosion is around a tree at the levee toe. Dense vegetation is visible.					

Photo 1 of 1 : SP_2024_RD2089_316_3_20240214_00003.jpg



8/30/2023: View of the erosion.

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.23	Rating **	M	Issue No.	42
LM End	1.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.805813°	37.805813°
				-121.402877°	-121.402877°
DWR ID	DWR_RD2089_01_f_2019_42				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_42_20240403_00031.jpg



View of an untrimmed tree on the landside slope. Spring 2024

LM Start	1.23	Rating **	M	Issue No.	12
LM End	1.23	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.805819°	37.805819°
				-121.402917°	-121.402917°
DWR ID	DWR_RD2089_01_s_2024_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	1.25	Rating **	M	Issue No.	24
LM End	1.25	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.805929°	37.805929°
				-121.403290°	-121.403290°
DWR ID	DWR_RD2089_01_s_2024_24				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.34	Rating **	M	Issue No.	45
LM End	1.34	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.806128°	37.806128°
				-121.404890°	-121.404890°
DWR ID	DWR_RD2089_01_s_2012_45				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_316_45_20240214_00013.jpg



View of roadway depression. Fall 2021

LM Start	1.37	Rating **	M	Issue No.	25
LM End	1.37	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.806224°	37.806224°
				-121.405434°	-121.405434°
DWR ID	DWR_RD2089_01_s_2024_25				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.38	Rating **	M	Issue No.	16
LM End	1.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.806243 °	37.806243 °
				-121.405591 °	-121.405591 °
DWR ID	DWR_RD2089_01_s_2023_16				
Comment Code					
PR : Prunings					
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 - Spring 2024****Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.40	Rating **	M	Issue No.	26
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806306°	37.806638°
				-121.405954°	-121.407928°
DWR ID	DWR_RD2089_01_s_2024_26				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.41	Rating **	U	Issue No.	52
LM End	1.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.806323°	37.806323°
				-121.406155°	-121.406155°
DWR ID	23045				
Comment Code					
Inspector Comment					
DS_ID:23045 FS_ID:80816 EP_NO: 7891 Repair Type: Urgent EVAL Issue: 2a, Levee Integrity Crossing Status: Found UCIP Comments: 07/13/2023: Excavation has been backfilled. It is unclear is the compaction is in accordance with O&M standards. Rip-rap also placed on waterside slope. Enforcement Case 2022-15621 remains active. (J. Singh - DWR UCIP) 08/09/2022 NTC Enforcement Case 2022-15621 was issued to this crossing. Excavation on landside slope measured 3-feet wide by 20-feet long by 5-feet deep. Excavation on waterside slope measured 3-feet wide by 20-feet long by 3-feet deep. Annular space between sleeved pipes not grouted. (O.Yakimov - DWR UCIP) 08/01/2022 Record updated from Non-Urgent to Urgent. DWR levee inspector reported that this pipe has been replaced with a new pipe, unable to locate a permit for modifications. Landside slope has an open trench and the waterside slope has a significant erosion under the pipe. Both landside and waterside slope need to be recompacted in accordance with O&M standards. Unauthorized encroachment recorded in Levee Log. (O. Yakimov - DWR UCIP) 09/12/2013: siphon breaker needs repair. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8-inch steel drainage discharge pipe sleeved through 10-inch pipe through the levee, 2.4 feet below the crown, annular space not grouted. Pipe diameter on waterside grows to 10-inch, 8-inch pipe is connected to existing 10-inch pipe at landside toe via coupler with welded diameter reduction. Pump in a drainage ditch on the landside (LS). Siphon breaker on the waterside (WS) shoulder. (10-inch pipe authorized under Permit No. 7981, 1972 - Frank Pellegri). [Additional Reference(s): DWR Levee Log, 1991]. FS Date: 7/13/2023					

Photo 1 of 3 : UCIP_SP_2024_80816_116863.jpg



View of levee crown looking downstream.

* 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 - Spring 2024****Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.41	Rating **	U	Issue No.	52 (cont)
LM End	1.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.806323°	37.806323°
				-121.406155°	-121.406155°
DWR ID	23045				

Photo 2 of 3 : UCIP_SP_2024_80816_116860.jpg



View of waterside steel pipe with siphon breaker. Rip-rap placed along the slope.

LM Start	1.41	Rating **	U	Issue No.	52 (cont)
LM End	1.41	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2024_80816_116861.jpg



View of landside with steel pipe and pump in the drainage ditch.

LM Start	1.43	Rating **	M	Issue No.	48
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.806375°	37.806416°
				-121.406516°	-121.406537°
DWR ID	DWR_RD2089_01_f_2019_48				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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 - Spring 2024****Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.48	Rating **	M	Issue No.	27
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.806542°	37.806664°
				-121.407319°	-121.407862°
DWR ID	DWR_RD2089_01_f _ 2022_27				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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
Unit Cover Sheet**

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles
Unit No. 02 Salmon Slough	Right	1.35

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/3/2024 - 4/3/2024			
DWR Inspector	Alberto De Leon			
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.00	Rating **	M	Issue No.	76
LM End	0.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.806649 °	37.806965 °
				-121.407875 °	-121.408280 °
DWR ID	DWR_RD2089_02_s_2021_76				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	U	Issue No.	19
LM End	0.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806644°	37.810069°
				-121.407859°	-121.412159°
DWR ID	DWR_RD2089_02_f_2023_19				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_19_20240403_00017.jpg



Typical view of overgrown vegetation along the landside slope and easement. Spring 2024

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.00	Rating **	U	Issue No.	21
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806649°	37.810066°
				-121.407859°	-121.412162°
DWR ID	DWR_RD2089_02_f_2023_21				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_21_20240403_00018.jpg



Typical view of overgrown vegetation along the waterside slope. Spring 2024

LM Start	0.00	Rating **	U	Issue No.	5
LM End	0.35	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806652°	37.810068°
				-121.407886°	-121.412168°
DWR ID	DWR_RD2089_02_s_2024_5				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_5_20240403_00019.jpg



Typical view of vegetation along the crown surface. Spring 2024

LM Start	0.06	Rating **	M	Issue No.	4
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.807305°	37.807305°
				-121.408702°	-121.408702°
DWR ID	DWR_RD2089_02_s_2012_4				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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		+ Issue Type 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**

Levee Inspection Report By Mile - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.20	Rating **	A/W	Issue No.	46
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.809100°	37.809200°
				-121.409800°	-121.409900°
DWR ID	LMA-415				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
2017 Storm Damage Site, ID No. 509, LMA 415, displaced riprap at toe. Inspected: Fall 2020, vegetation did not allow inspection of rip rap.					

Photo 1 of 1 : SP_2024_RD2089_317_46_20240214_00014.jpg



View of erosion site on waterside slope. Spring 2020

LM Start	0.33	Rating **	M	Issue No.	55
LM End	0.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.810030°	37.810052°
				-121.411672°	-121.411966°
DWR ID	DWR_RD2089_02_s_2017_55				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_55_20240214_00015.jpg



View of tree branches that need to be thinned and trimmed on the landside levee slope. Spring 2023

LM Start	0.35	Rating **	M	Issue No.	2
LM End	0.35	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.810106°	37.810106°
				-121.412133°	-121.412133°
DWR ID	DWR_RD2089_02_s_2012_2				
Comment Code					
FE : Fence					
Inspector Comment					
Cattle guard type fence on levee crown.					

Photo 1 of 1 : SP_2024_RD2089_317_2_20240214_00002.jpg



View of gate across levee 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.39	Rating **	M	Issue No.	6
LM End	0.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.810115°	37.810115°
				-121.412767°	-121.412767°
DWR ID	DWR_RD2089_02_s _ 2024_6				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.40	Rating **	U	Issue No.	1
LM End	0.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810184°	37.810184°
				-121.413019°	-121.413019°
DWR ID	RD2089U02RM28.35				
Comment Code					
Inspector Comment					
Site ID: RD2089U02RM28.35					
8/30/2023: From 2020 to present, no significant changes were observed during the annual survey.					
09/22/2020: Observed less vegetation on the levee slope, loose soil, and scattered riprap.					
09/26/2019: From 2011 to 2019, no significant changes were observed during the annual survey.					
09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots.					
08/05/2010: Recommended for repair, per CLRO.					
09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey.					
11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition.					

Photo 1 of 1 : SP_2024_RD2089_317_1_20240214_00001.jpg



8/30/2023: Close-up view of the eroded levee slope.

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.50	Rating **	U	Issue No.	7
LM End	0.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Livestock			37.810999°	37.811380°
				-121.414532°	-121.415059°
DWR ID	DWR_RD2089_02_s_2022_7				
Comment Code					
E4 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					
The slope near the waterside hinge is eroded caused by grazing livestock.					

Photo 1 of 2 : SP_2024_RD2089_317_7_20240403_00020.jpg



View of livestock grazing on levee slopes. Spring 2024

LM Start	0.50	Rating **	U	Issue No.	7 (cont)
LM End	0.54	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2024_RD2089_317_7_20240214_00004.jpg



View of eroded waterside slope caused by livestock. Spring 2023

LM Start	0.51	Rating **	M	Issue No.	17
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811109°	37.811109°
				-121.414664°	-121.414664°
DWR ID	DWR_RD2089_02_s_2023_17				
Comment Code					
PR : Prunings					
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 - Spring 2024****Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.51	Rating **	U	Issue No.	62
LM End	0.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811125°	37.814845°
				-121.414685°	-121.414586°
DWR ID	DWR_RD2089_02_s_ 2021_62				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_62_20240214_00016.jpg



View of an irrigation ditch within the landside easement. Spring 2021

LM Start	0.60	Rating **	M	Issue No.	3
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.812000°	37.812000°
				-121.415700°	-121.415700°
DWR ID	RD2089U02RM28.14				
Comment Code					
Inspector Comment					
Site ID: RD2089U02RM28.14					
8/30/2023: From 2020 to present, no significant changes were observed during the annual survey.					
09/22/2020: This site is a 2017 Storm Damage Site (LMA-413). There is a vertical cut on the bank. The berm width ranges from 2 ft to 20 ft. The site will likely worsen during the next high water.					

Photo 1 of 1 : SP_2024_RD2089_317_3_20240214_00003.jpg



8/30/2023: View of the erosion.

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.74	Rating **	M	Issue No.	16
LM End	0.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.813641°	37.813641°
				-121.414462°	-121.414462°
DWR ID	DWR_RD2089_02_s_2023_16				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	0.84	Rating **	M	Issue No.	9
LM End	0.84	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.814881°	37.814881°
				-121.414676°	-121.414676°
DWR ID	DWR_RD2089_02_s_2012_9				
Comment Code					
FE : Fence					
Inspector Comment					
Cattle guard type fence on levee crown.					

Photo 1 of 1 : SP_2024_RD2089_317_9_20240214_00005.jpg



View of the fence gate across levee crown.

LM Start	0.84	Rating **	M	Issue No.	25
LM End	0.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814906°	37.815011°
				-121.414745°	-121.414900°
DWR ID	DWR_RD2089_02_s_2012_25				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	0.91	Rating **	A/W	Issue No.	59
LM End	0.93	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.814890°	37.814890°
				-121.415880°	-121.416330°
DWR ID	335-3				
Comment Code					
SS : Seepage / Sandboils					
Inspector Comment					

No Photos

LM Start	0.96	Rating **	M	Issue No.	68
LM End	0.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.814911°	37.814911°
				-121.416756°	-121.416756°
DWR ID	DWR_RD2089_02_s _ 2020_68				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.98	Rating **	M	Issue No.	69
LM End	1.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.815018°	37.815356°
				-121.417117°	-121.417745°
DWR ID	DWR_RD2089_02_s _ 2020_69				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.03	Rating **	M	Issue No.	50
LM End	1.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.815515°	37.815515°
				-121.417931°	-121.417931°
DWR ID	DWR_RD2089_02_s_2021_50				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.04	Rating **	M	Issue No.	70
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.815563°	37.815761°
				-121.418052°	-121.418225°
DWR ID	DWR_RD2089_02_s_2020_70				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.05	Rating **	N	Issue No.	29
LM End	1.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.815629°	37.815629°
				-121.418133°	-121.418133°
DWR ID	DWR_RD2089_02_s_2012_29				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_29_20240214_00013.jpg



View of tree stump left after vegetation and tree removal.

* 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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.06	Rating **	M	Issue No.	11
LM End	1.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.815775°	37.815775°
				-121.418280°	-121.418280°
DWR ID	DWR_RD2089_02_s_2023_11				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	1.08	Rating **	M	Issue No.	14
LM End	1.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.815986°	37.815986°
				-121.418463°	-121.418463°
DWR ID	DWR_RD2089_02_f_2022_14				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.10	Rating **	M	Issue No.	15
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.816207°	37.816514°
				-121.418675°	-121.418948°
DWR ID	DWR_RD2089_02_f_2022_15				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.12	Rating **	M	Issue No.	30
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.816514°	37.816514°
				-121.418948°	-121.418948°
DWR ID	DWR_RD2089_02_s_2012_30				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.16	Rating **	U	Issue No.	20
LM End	1.25	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817056°	37.818182°
				-121.419238°	-121.419731°
DWR ID	DWR_RD2089_02_f_2023_20				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_20_20240214_00009.jpg



Typical view of overgrown vegetation along the crown. Fall 2023

LM Start	1.17	Rating **	M	Issue No.	71
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817069°	37.817363°
				-121.419274°	-121.419407°
DWR ID	DWR_RD2089_02_s_2020_71				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.17	Rating **	M	Issue No.	37
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817182°	37.817357°
				-121.419302°	-121.419418°
DWR ID	DWR_RD2089_02_s_2021_37				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.23	Rating **	U	Issue No.	31
LM End	1.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817976°	37.818051°
				-121.419714°	-121.419743°
DWR ID	DWR_RD2089_02_s_2012_31				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.24	Rating **	M	Issue No.	72
LM End	1.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818151°	37.818558°
				-121.419745°	-121.419757°
DWR ID	DWR_RD2089_02_s_2020_72				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
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 - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.25	Rating **	U	Issue No.	13
LM End	1.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818234°	37.818881°
				-121.419728°	-121.419752°
DWR ID	DWR_RD2089_02_f _ 2023_13				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_13_20240214_00006.jpg



View of untrimmed trees over the crown. Fall 2023

LM Start	1.25	Rating **	M	Issue No.	23
LM End	1.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818277°	37.819040°
				-121.419725°	-121.419760°
DWR ID	DWR_RD2089_02_s_2012_23				
Comment Code					
BU : Building					
Inspector Comment					
Buildings and equipment encroach within 10-ft of landside toe.					

Photo 1 of 1 : SP_2024_RD2089_317_23_20240214_00012.jpg



View of storage container along the landside easement. Fall 2022

LM Start	1.27	Rating **	U	Issue No.	22
LM End	1.27	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818541°	37.818541°
				-121.419748°	-121.419748°
DWR ID	DWR_RD2089_02_f_2020_22				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_22_20240214_00011.jpg



View of prunings along the waterside slope. Fall 2022

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type 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**

Levee Inspection Report By Mile - Spring 2024

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	04/03/2024 04/03/2024	Alberto De Leon

LM Start	1.29	Rating **	A/W	Issue No.	32
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818829°	37.818829°
				-121.419776°	-121.419776°
DWR ID	DWR_RD2089_02_s_2012_32				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.29	Rating **	N	Issue No.	18
LM End	1.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818843°	37.818843°
				-121.419762°	-121.419762°
DWR ID	DWR_RD2089_02_f_2016_18				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2024_RD2089_317_18_20240214_00007.jpg



View of the tree stump from the levee 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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