

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2014 Levee Inspection Results****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

Spring 2014 Levee Inspection Results

Reclamation District No. 2089 Stark

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 01 Old River | | | Right | 1.53 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 05/07/2014 - 05/07/2014 | | | |
| DWR Inspector | Maksim Khashchuk | | | |
| 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 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|-----------------|----------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 4 |
| LM End | | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Operations & Maintenance Manuals | | | | ° |
| | | | | | ° |
| DWR ID | DWR_RD2089_01_s _ 2013_4 | | | | |
| Action/Comments | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|--------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 15 |
| LM End | | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Emergency Supplies & Equipment | | | | ° |
| | | | | | ° |
| DWR ID | DWR_RD2089_01_s _ 2013_15 | | | | |
| Action/Comments | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|-------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 34 |
| LM End | | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | | ° |
| | | | | | ° |
| DWR ID | DWR_RD2089_01_s _ 2013_34 | | | | |
| Action/Comments | | | | | |
| | | | | | |

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 9 |
| LM End | 0.39 | 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 | | | | |
| Action/Comments | | | | | |
| Ditch | | | | | |
| Inspector Comments: 05/24/2011 Photo added of Ag ditch. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00713.jpg



05/24/2011 Ditch flows parallel with the utility line shown in the photo.

| | | | | | |
|-----------------------------------|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.04 | Rating ** | A/W | Issue No. | 7 |
| LM End | 0.04 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.811467 ° | 37.811467 ° |
| | | | | -121.385569 ° | -121.385569 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_7 | | | | |
| Action/Comments | | | | | |
| Pipe | | | | | |
| Inspector Comments: Drainage pump | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00712.jpg



Waterside of drainage discharge to Old River.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.04 | Rating ** | M | Issue No. | 1 |
| LM End | 0.04 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.811474 ° | 37.811474 ° |
| | | | | -121.385573 ° | -121.385573 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_1 | | | | |
| Action/Comments | | | | | |
| Stairway | | | | | |
| Inspector Comments: Steps have been cut into the levee slope, this could become an erosion point, please fill and compact. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00986.jpg



View of the stairs eroding into the landside levee slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.07 | Rating ** | M | Issue No. | 42 |
| LM End | 0.14 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.811368 ° | 37.811048 ° |
| | | | | -121.386085 ° | -121.387242 ° |
| DWR ID | DWR_RD2089_01_f_2013_42 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00987.jpg



View of the tall vegetation obstructing visibility of the landside levee slope.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.25 | Rating ** | M | Issue No. | 940 |
| LM End | 0.25 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.810412 ° | 37.810412 ° |
| | | | | -121.389115 ° | -121.389115 ° |
| DWR ID | DWR_RD2089_01_s_2012_940 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Arundo has been trimmed back from the crown but still remains as an obstruction to the slope and obstructs visibility, needs to be removed. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00988.jpg



The LMA is actively trying to remove the vegetation on the landside levee slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.27 | Rating ** | U | Issue No. | 12 |
| LM End | 0.39 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.810319 ° | 37.809740 ° |
| | | | | -121.389510 ° | -121.391645 ° |
| DWR ID | DWR_RD2089_01_s_2012_12 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Access and visibility completely blocked. 11/10/2011 issue has not changed. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00989.jpg



Thick brush and wild rose completely block access and visibility of landside slope and toe.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.34 | Rating ** | M | Issue No. | 19 |
| LM End | 0.34 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.809978 ° | 37.809978 ° |
| | | | | -121.390704 ° | -121.390704 ° |
| DWR ID | DWR_RD2089_01_s_2012_19 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo completely blocks access and visibility.11/10/2011 Arundo has been trimmed back from the roadway, but still completely blocks access and visibilito to the landside slope. This plant was improperly identified as bamboo in previous inspections. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00719.jpg



Arundo has been trimmed back from the road, but needs to be removed to so that it does not obstruct visibility and access to the landside toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.38 | Rating ** | U | Issue No. | 946 |
| LM End | 0.38 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.809865 ° | 37.809865 ° |
| | | | | -121.391303 ° | -121.391303 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_946 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00990.jpg



Trees on levee slope obstruct access and visibility.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.42 | Rating ** | U | Issue No. | 28 |
| LM End | 0.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.809593 ° | 37.809507 ° |
| | | | | -121.391963 ° | -121.392907 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_28 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation is too thick to allow access and visibility. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00723.jpg



05/24/2011 Photo shows thick dead vegetation and continuation of trees in area that are preventing access and visibility of landside slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.45 | Rating ** | M | Issue No. | 2 |
| LM End | 0.45 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.809394 ° | 37.809394 ° |
| | | | | -121.392791 ° | -121.392791 ° |
| DWR ID | DWR_RD2089_01_s _ 2014_2 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site shows loose material around the pipe crossing. The operation of the pipe might have caused an impact on the levee. [2013 Site ID:RD2089U01RM29.8] | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00709.jpg



Front view of the site.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.46 | Rating ** | M | Issue No. | 6 |
| LM End | 0.46 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.809500 ° | 37.809500 ° |
| | | | | -121.392797 ° | -121.392797 ° |
| DWR ID | DWR_RD2089_01_s _ 2014_6 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21635 EP_NO: 5641 Repair Type: Crossing Status: UCIP Comments: - damaged siphon breaker.most of the pipe on landside exposed on levee slope. FIELD_STRUCT_DESC: 20-inch steel pipe and electric conduit through the levee, 5.8 feet below the crown, pump on pile structure in the stream. Siphon breaker on the landward slope. (App. No. 5641- Ted Stark) FS Date: 9/12/2013 | | | | | |

Photo 1 of 1 : UCIP_2649.jpg



WS view: walkway to pump platform and pump on steel piling structure in the channel.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|---------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.50 | Rating ** | M | Issue No. | 30 |
| LM End | 0.50 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.809665 ° | 37.809665 ° |
| | | | | -121.393219 ° | -121.393219 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_30 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dead growth is too thick to allow access during flood fight situation and completely obstructs visibility of the landside toe. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00724.jpg



05/24/2011 Dead brush is too thick to allow access and visibility of landside slope and toe.

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.56 | Rating ** | M | Issue No. | 14 |
| LM End | 0.56 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.810087 ° | 37.810087 ° |
| | | | | -121.394200 ° | -121.394200 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_14 | | | | |
| Action/Comments | | | | | |
| Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Minor depressions will cause ponding. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00717.jpg



11/10/2011 Depressions in crown.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.64 | Rating ** | M | Issue No. | 18 |
| LM End | 1.53 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.810048 ° | 37.806534 ° |
| | | | | -121.395762 ° | -121.407531 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_18 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Waterside vegetation is too thick to allow access and visibility. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00718.jpg



11/10/2011 Vegetation needs to be cleared on the upper 20' of the waterside slope.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.66 | Rating ** | U | Issue No. | 3 |
| LM End | 0.66 | 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 | DWR_RD2089_01_s _ 2014_3 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new erosion activities observed. Dense white willow trees on site. 09/07/2010: It was difficult to view the erosion due to the thick 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. [2013 Site ID:RD2089U01RM29.61] | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00710.jpg



Front view of the site. The scarp is visible on the slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.67 | Rating ** | U | Issue No. | 31 |
| LM End | 0.68 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.809975 ° | 37.809822 ° |
| | | | | -121.396107 ° | -121.396376 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_31 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Dead brush needs to be removed, too thick to allow access and obstructs visibility of levee slope and toe | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00725.jpg



05/24/2011 Vegetation is mostly dead but needs to be removed to allow access and visibility of slope and toe.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.73 | Rating ** | M | Issue No. | 20 |
| LM End | 0.77 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.809516 ° | 37.808909 ° |
| | | | | -121.396955 ° | -121.397557 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_20 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Dead vegetation prohibits visibility of the landside toe. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00720.jpg



11/10/2011 Vegetation obstructs visibility of slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.81 | Rating ** | M | Issue No. | 8 |
| LM End | 0.81 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.808387 ° | 37.808387 ° |
| | | | | -121.397843 ° | -121.397843 ° |
| DWR ID | DWR_RD2089_01_s _ 2014_8 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21587 | | | | | |
| EP_NO: 3385 | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: - powerline on landside.electric control box on | | | | | |
| waterside.waterside slope erosion under pump platform. | | | | | |
| FIELD_STRUCT_DESC: 16-inch pipe through the levee, 5.5 feet below | | | | | |
| the crown, slant pump in pump house on the waterward slope. Siphon | | | | | |
| breaker on the landward slope. (App. No. 3385-Elinore Lawrence). | | | | | |
| Originally included in O+M (1968) | | | | | |
| FS Date: 9/12/2013 | | | | | |

Photo 1 of 1 : UCIP_2562.jpg



WS view: slant pump on wooden platform. Oil leaks from the pump.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.85 | Rating ** | M | Issue No. | 36 |
| LM End | 0.97 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.807938 ° | 37.806361 ° |
| | | | | -121.397898 ° | -121.397778 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_36 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Tall weeds and brush on top 20' of waterside slope obstruct visibility. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00728.jpg

View of tall weeds and brush obstructing visibility on waterside slope.
05/24/2012

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.96 | Rating ** | M | Issue No. | 33 |
| LM End | 0.96 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.806397 ° | 37.806397 ° |
| | | | | -121.397758 ° | -121.397758 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_33 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: 11/10/2011 Large arundo on waterside prevents visibility and access to waterside slope. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00726.jpg



11/10/2011 Arundo on upper 20' of waterside slope.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.98 | Rating ** | M | Issue No. | 35 |
| LM End | 1.07 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.806264 ° | 37.805885 ° |
| | | | | -121.397961 ° | -121.399726 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_35 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: 11/10/2011 Thick vegetation blocks visibility and access to top 20' of waterside slope. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00727.jpg



Thick vegetation on upper 20' of waterside slope obstructing visibility and access.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.04 | Rating ** | M | Issue No. | 956 |
| LM End | 1.06 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.806063 ° | 37.805967 ° |
| | | | | -121.398930 ° | -121.399348 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_956 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and tobacco block visibility. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.10 | Rating ** | M | Issue No. | 957 |
| LM End | 1.10 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.805848 ° | 37.805848 ° |
| | | | | -121.400003 ° | -121.400003 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_957 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. Inspector Comments: Brush blocks access. | | | | | |

No Photos

| | | | | | |
|-----------------|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.16 | Rating ** | A/W | Issue No. | 21 |
| LM End | 1.16 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.805623 ° | 37.805623 ° |
| | | | | -121.401207 ° | -121.401207 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_21 | | | | |
| Action/Comments | | | | | |
| Pipe | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00721.jpg



Drainage discharge into Old River.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.22 | Rating ** | M | Issue No. | 5 |
| LM End | 1.23 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.805580 ° | 37.805580 ° |
| | | | | -121.403010 ° | -121.403010 ° |
| DWR ID | DWR_RD2089_01_s _ 2014_5 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: The erosion is around a tree at the levee toe. Dense vegetation is visible. [2013 Site ID:RD2089U01RM29.04] | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00711.jpg



Close view of the site. Note the tree and the vegetation.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.22 | Rating ** | M | Issue No. | 25 |
| LM End | 1.22 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.805663 ° | 37.805663 ° |
| | | | | -121.402151 ° | -121.402151 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_25 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Bamboo within top 20' of waterside levee slope. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00722.jpg



View of the Arundo on the waterside slope obstructing visibility. LMA is actively trying to remove the wild growth.

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.25 | Rating ** | M | Issue No. | 43 |
| LM End | 1.25 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.805735 ° | 37.805735 ° |
| | | | | -121.402614 ° | -121.402614 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_43 | | | | |
| Action/Comments | | | | | |
| Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00731.jpg



11/10/2011 Depression in roadway.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.26 | Rating ** | M | Issue No. | 44 |
| LM End | 1.26 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.805801 ° | 37.805801 ° |
| | | | | -121.402913 ° | -121.402913 ° |
| DWR ID | DWR_RD2089_01_s_2012_44 | | | | |
| Action/Comments | | | | | |
| Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression in roadway needs ot be filled. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00732.jpg



11/10/2011 Roadway depression.

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.38 | Rating ** | M | Issue No. | 45 |
| LM End | 1.38 | 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 | | | | |
| Action/Comments | | | | | |
| Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00733.jpg



11//10/2011 Roadway depression.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.43 | Rating ** | M | Issue No. | 47 |
| LM End | 1.43 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.806268 ° | 37.806268 ° |
| | | | | -121.405874 ° | -121.405874 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_47 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 11/10/2011 No rodents visible, but active burrows are present. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00735.jpg



11/10/2011 Active rodent burrow on landside slope.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.43 | Rating ** | M | Issue No. | 46 |
| LM End | 1.43 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.806266 ° | 37.806266 ° |
| | | | | -121.405876 ° | -121.405876 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_46 | | | | |
| Action/Comments | | | | | |
| Tree or limb Inspector Comments: 11/10/2011 Downed tree at levee toe prevents access to levee from landside. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00991.jpg



Decaying tree at the landside levee toe is obstructing visibility and access.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.44 | Rating ** | M | Issue No. | 11 |
| LM End | 1.44 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.806322 ° | 37.806322 ° |
| | | | | -121.406154 ° | -121.406154 ° |
| DWR ID | DWR_RD2089_01_s_2014_11 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21585 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: - siphon breaker needs repair. | | | | | |
| FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 2.4 feet below the crown. Pump in drain ditch on the landward side. Siphon breaker on the waterward shoulder. | | | | | |
| FS Date: 9/12/2013 | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.44 | Rating ** | M | Issue No. | 16 |
| LM End | 1.44 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.806323 ° | 37.806323 ° |
| | | | | -121.406149 ° | -121.406149 ° |
| DWR ID | DWR_RD2089_01_s_2014_16 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21581 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: - if abandoned, it needs proper abandonment. | | | | | |
| FIELD_STRUCT_DESC: A 6-inch PVC pipe through the levee, 2 ft. | | | | | |
| below the crown and open both ends. Field study discovered pipe. | | | | | |
| FS Date: 9/12/2013 | | | | | |

Photo 1 of 1 : UCIP_2552.jpg



WS view: 6-inch pvc pipe on levee slope. Pipe end open and damaged.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.47 | Rating ** | M | Issue No. | 52 |
| LM End | 1.47 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.806378 ° | 37.806378 ° |
| | | | | -121.406486 ° | -121.406486 ° |
| DWR ID | DWR_RD2089_01_f_2013_52 | | | | |
| Action/Comments | | | | | |
| Prunings | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00739.jpg



View of the tree branches obstructing landside levee slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.47 | Rating ** | M | Issue No. | 49 |
| LM End | 1.47 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.806383 ° | 37.806383 ° |
| | | | | -121.406599 ° | -121.406599 ° |
| DWR ID | DWR_RD2089_01_s_2012_49 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Deep burrow on waterside needs to be filled. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00738.jpg



11/10/2011 Deep burrow on waterside.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Old River | Right | 1.53 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.54 | Rating ** | M | Issue No. | 17 |
| LM End | 1.54 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.805644 ° | 37.805644 ° |
| | | | | -121.401177 ° | -121.401177 ° |
| DWR ID | DWR_RD2089_01_s_2014_17 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21754 | | | | | |
| EP_NO: 3585 | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: - huge slope erosion on landside slope most of the pipe exposed on levee slope.service pole on landside. | | | | | |
| FIELD_STRUCT_DESC: 12-inch pipe through levee, 3.0 feet below the crown. Pump over concrete pipe in drain ditch on the landside. Siphon breaker on the waterside slope and air vent on landside. (App. No. 3585 - Elinore Lawrence). Originally included in O+M (1968) | | | | | |
| FS Date: 9/12/2013 | | | | | |

Photo 1 of 1 : UCIP_2767.jpg



WS view: walkway and pump on piling structure in the channel.

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 2089 Stark

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 02 Salmon Slough | | | Right | 1.37 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 05/07/2014 - 05/07/2014 | | | |
| DWR Inspector | Maksim Khashchuk | | | |
| 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 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.08 | Rating ** | U | Issue No. | 4 |
| LM End | 0.08 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.807375 ° | 37.807375 ° |
| | | | | -121.408605 ° | -121.408605 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_4 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. Inspector Comments: Thick brush may include some elderberries. 05/24/2011 updated photo. | | | | | |

Photo 1 of 2 : mkhashch_s_20140428_00748.jpg



Fall 2009 photo of unacceptable vegetation on levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.08 | Rating ** | U | Issue No. | 4 (cont) |
| LM End | 0.08 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : mkhashch_s_20140428_00749.jpg



05/24/2011 Updated photo of issue noted in Fall 2010 inspection.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.10 | Rating ** | M | Issue No. | 19 |
| LM End | 0.10 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.807486 ° | 37.807486 ° |
| | | | | -121.408791 ° | -121.408791 ° |
| DWR ID | DWR_RD2089_02_s _ 2013_19 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00992.jpg



View of the vegetation on the landside levee slope.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.18 | Rating ** | U | Issue No. | 48 |
| LM End | 0.18 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.808583 ° | 37.808583 ° |
| | | | | -121.409432 ° | -121.409432 ° |
| DWR ID | DWR_RD2089_02_f_2013_48 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00993.jpg



View of the rodent burrow on the landside levee slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.21 | Rating ** | U | Issue No. | 49 |
| LM End | 0.21 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809148 ° | 37.809148 ° |
| | | | | -121.409897 ° | -121.409897 ° |
| DWR ID | DWR_RD2089_02_f_2013_49 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00994.jpg



View of the multiple rodent burrows on the landside levee hinge and slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.28 | Rating ** | M | Issue No. | 24 |
| LM End | 0.28 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809717 ° | 37.809717 ° |
| | | | | -121.410511 ° | -121.410511 ° |
| DWR ID | DWR_RD2089_02_s_2012_24 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Ground squirrel sighted and active borrowing in area. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00759.jpg



05/24/2011 Active burrows, ground squirrel sighted in area.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.30 | Rating ** | M | Issue No. | 52 |
| LM End | 0.32 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.809899 ° | 37.809997 ° |
| | | | | -121.410888 ° | -121.411298 ° |
| DWR ID | DWR_RD2089_02_f_2013_52 | | | | |
| Action/Comments | | | | | |
| Prunings | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00770.jpg



View of the tree branches on the landside levee toe obstructing access.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.30 | Rating ** | U | Issue No. | 51 |
| LM End | 0.30 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809899 ° | 37.809899 ° |
| | | | | -121.410889 ° | -121.410889 ° |
| DWR ID | DWR_RD2089_02_f_2013_51 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00769.jpg



View of the rodent burrow on the landside levee toe.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.32 | Rating ** | U | Issue No. | 53 |
| LM End | 0.33 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809977 ° | 37.810022 ° |
| | | | | -121.411189 ° | -121.411387 ° |
| DWR ID | DWR_RD2089_02_f_2013_53 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Exterminating rodents and grouting the burros recommended. | | | | | |

Photo 1 of 3 : mkhashch_s_20140428_00771.jpg



View of the multiple rodent burrows on the landside levee slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.32 | Rating ** | U | Issue No. | 53 (cont) |
| LM End | 0.33 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809977 ° | 37.810022 ° |
| | | | | -121.411189 ° | -121.411387 ° |
| DWR ID | DWR_RD2089_02_f_2013_53 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Exterminating rodents and grouting the burros recommended. | | | | | |

Photo 2 of 3 : mkhashch_s_20140428_00772.jpg



Another view of the multiple rodent burrows on the landside levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.32 | Rating ** | U | Issue No. | 53 (cont) |
| LM End | 0.33 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : mkhashch_s_20140428_00773.jpg



View of the rodent burrow on the landside levee slope.

| | | | | | |
|-----------------|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.37 | Rating ** | A/W | Issue No. | 2 |
| LM End | 0.37 | 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 | | | | |
| Action/Comments | | | | | |
| Fence | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00747.jpg



View of gate across levee crown.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.38 | Rating ** | M | Issue No. | 26 |
| LM End | 0.38 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.810125 ° | 37.810125 ° |
| | | | | -121.412317 ° | -121.412317 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_26 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrow needs to be repaired. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00760.jpg



05/24/2011 Active rodent burrow.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.40 | Rating ** | M | Issue No. | 8 |
| LM End | 0.66 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.810109 ° | 37.812395 ° |
| | | | | -121.412619 ° | -121.415813 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_8 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Tobacco leaf and other brush block access and visibility. | | | | | |

Photo 1 of 2 : mkhashch_s_20140428_00750.jpg



Fall 2009 photo: Brush on landside toe limits visibility and accessibility.

*** Location**

LS : Land Side
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 - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.40 | Rating ** | M | Issue No. | 8 (cont) |
| LM End | 0.66 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.810109 ° | 37.812395 ° |
| | | | | -121.412619 ° | -121.415813 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_8 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Tobacco leaf and other brush block access and visibility. | | | | | |

Photo 2 of 2 : mkhashch_s_20140428_00751.jpg



Brush on landside slope limits access.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.42 | Rating ** | M | Issue No. | 1 |
| LM End | 0.43 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.809960 ° | 37.809960 ° |
| | | | | -121.413200 ° | -121.413200 ° |
| DWR ID | DWR_RD2089_02_s _ 2014_1 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 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. [2013 Site ID:RD2089U02RM28.35] | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00746.jpg



Close view of the site.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.46 | Rating ** | M | Issue No. | 27 |
| LM End | 0.46 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.810490 ° | 37.810490 ° |
| | | | | -121.413638 ° | -121.413638 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_27 | | | | |
| Action/Comments | | | | | |
| Building | | | | | |
| Inspector Comments: Portable toilet on bank, at water's edge. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00761.jpg



05/24/2011 Portable toilet is in the shadows in the center of the photo at the water's edge.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.49 | Rating ** | M | Issue No. | 13 |
| LM End | 0.49 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.810691 ° | 37.810691 ° |
| | | | | -121.414014 ° | -121.414014 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_13 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comments: Two old burrows that need to be filled. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00755.jpg



11/10/2011 Two large burrows on crown, need to be filled.

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.49 | Rating ** | M | Issue No. | 10 |
| LM End | 0.49 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.810714 ° | 37.810714 ° |
| | | | | -121.414057 ° | -121.414057 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_10 | | | | |
| Action/Comments | | | | | |
| Add appropriate gravel or road base. Grade and compact. Inspector Comments: Surface depression needs to be filled. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00753.jpg



11/10/2011 Depression in crown needs to be filled.

*** Location**

LS : Land Side
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 - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.52 | Rating ** | U | Issue No. | 54 |
| LM End | 0.52 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.810989 ° | 37.810989 ° |
| | | | | -121.414517 ° | -121.414517 ° |
| DWR ID | DWR_RD2089_02_f_2013_54 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

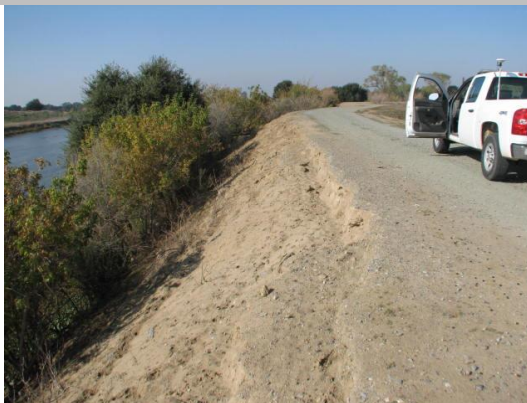
Photo 1 of 1 : mkhashch_s_20140428_00774.jpg



View of the rodent burrow on the landside levee slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.54 | Rating ** | U | Issue No. | 14 |
| LM End | 0.54 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.811150 ° | 37.811150 ° |
| | | | | -121.414748 ° | -121.414748 ° |
| DWR ID | DWR_RD2089_02_s_2012_14 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by livestock and prevent large animal access. | | | | | |
| Inspector Comments: 11/10/2011 Repair damage to slope caused by livestock. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00756.jpg



11/10/2011 Approximately 1' scarp has been created by livestock travel.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.56 | Rating ** | M | Issue No. | 3 |
| LM End | 0.56 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.811369 ° | 37.811369 ° |
| | | | | -121.415050 ° | -121.415050 ° |
| DWR ID | DWR_RD2089_02_s _ 2014_3 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21676 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: - air relief valve on waterside. Needs repair. | | | | | |
| concrete standpipe on landside. | | | | | |
| FIELD_STRUCT_DESC: 14-inch pipe through the levee, 8.0 feet below | | | | | |
| the crown, pump on pile structure in the stream. Air relief valve on the | | | | | |
| waterside slope. Timber walkway to the pump. Concrete distribution | | | | | |
| standpipe on landside toe. Originally included in O+M (1968) | | | | | |
| FS Date: 9/12/2013 | | | | | |

Photo 1 of 1 : UCIP_2722.jpg



WS view: pipe and pump on piling structure in water channel.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.82 | Rating ** | U | Issue No. | 36 |
| LM End | 0.86 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.814421 ° | 37.814913 ° |
| | | | | -121.414203 ° | -121.414594 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_36 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth and dead underbrush prevents visibility of levee slope and area cannot be accessed if needed for a flood fight. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00995.jpg



Extremely thick dead brush prevents access and visibility.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.85 | Rating ** | M | Issue No. | 21 |
| LM End | 0.85 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814773 ° | 37.814773 ° |
| | | | | -121.414555 ° | -121.414555 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_21 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by livestock and prevent large animal access. | | | | | |
| Inspector Comments: Livestock have worn paths into levee slope. | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.85 | Rating ** | M | Issue No. | 38 |
| LM End | 0.85 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814844 ° | 37.814844 ° |
| | | | | -121.414566 ° | -121.414566 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_38 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows present. | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.86 | Rating ** | M | Issue No. | 25 |
| LM End | 0.86 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.814906 ° | 37.814906 ° |
| | | | | -121.414745 ° | -121.414745 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_25 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and blackberry on levee slope. | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.86 | Rating ** | A/W | Issue No. | 9 |
| LM End | 0.86 | 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 | | | | |
| Action/Comments | | | | | |
| Fence | | | | | |
| Inspector Comments: Gate across levee crown. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00752.jpg



View of the fence gate across levee crown.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.87 | Rating ** | U | Issue No. | 40 |
| LM End | 0.92 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814997 ° | 37.814970 ° |
| | | | | -121.414774 ° | -121.415767 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_40 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and landside ramp. | | | | | |

Photo 1 of 2 : mkhashch_s_20140428_00764.jpg



05/24/2011 Deep vertical burrow in levee crown.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.87 | Rating ** | U | Issue No. | 40 (cont) |
| LM End | 0.92 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : mkhashch_s_20140428_00765.jpg



05/24/2011 Deep vertical burrow in ramp on land side of levee.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.95 | Rating ** | M | Issue No. | 41 |
| LM End | 0.95 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.814940 ° | 37.814940 ° |
| | | | | -121.416499 ° | -121.416499 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_41 | | | | |
| Action/Comments | | | | | |
| Pipe | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00766.jpg



05/24/2011 Old CMP left on waterside levee slope, needs to be removed.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.97 | Rating ** | U | Issue No. | 5 |
| LM End | 0.97 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814915 ° | 37.814915 ° |
| | | | | -121.416606 ° | -121.416606 ° |
| DWR ID | DWR_RD2089_02_s _ 2014_5 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00996.jpg



View of the rodent holes on the landside levee slope.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.07 | Rating ** | N | Issue No. | 29 |
| LM End | 1.07 | 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 | | | | |
| Action/Comments | | | | | |
| Tree stumps. Inspector Comments: 14" dia stump. Could not verify as the area is overgrown with high weeds. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00762.jpg



Tree stump >2" left after vegetation and tree removal.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.10 | Rating ** | M | Issue No. | 55 |
| LM End | 1.28 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.815969 ° | 37.818391 ° |
| | | | | -121.418509 ° | -121.419753 ° |
| DWR ID | DWR_RD2089_02_f_2013_55 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.10 | Rating ** | M | Issue No. | 17 |
| LM End | 1.10 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.816100 ° | 37.816100 ° |
| | | | | -121.418487 ° | -121.418487 ° |
| DWR ID | DWR_RD2089_02_s_2012_17 | | | | |
| Action/Comments | | | | | |
| Debris | | | | | |
| Inspector Comments: Water tanks disposed of on levee are obstructive. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00757.jpg



View of water tanks disposed on waterside slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.12 | Rating ** | M | Issue No. | 56 |
| LM End | 1.36 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.816183 ° | 37.819463 ° |
| | | | | -121.418698 ° | -121.419772 ° |
| DWR ID | DWR_RD2089_02_f_2013_56 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.15 | Rating ** | M | Issue No. | 30 |
| LM End | 1.15 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.816487 ° | 37.816487 ° |
| | | | | -121.418948 ° | -121.418948 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_30 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.20 | Rating ** | M | Issue No. | 6 |
| LM End | 1.20 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.817271 ° | 37.817271 ° |
| | | | | -121.419380 ° | -121.419380 ° |
| DWR ID | DWR_RD2089_02_s _ 2014_6 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00997.jpg



View of the large rodent hole on the landside levee slope.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.22 | Rating ** | M | Issue No. | 7 |
| LM End | 1.22 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.817727 ° | 37.817727 ° |
| | | | | -121.419635 ° | -121.419635 ° |
| DWR ID | DWR_RD2089_02_s _ 2014_7 | | | | |
| Action/Comments | | | | | |
| Crops | | | | | |
| Inspector Comments: Animal feed stored at the landside levee toe. | | | | | |

Photo 1 of 1 : mkhashch_s_20140512_00998.jpg



View of the animal feed stockpiled at the landside levee toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.26 | Rating ** | M | Issue No. | 31 |
| LM End | 1.26 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.818051 ° | 37.818051 ° |
| | | | | -121.419743 ° | -121.419743 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_31 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.28 | Rating ** | U | Issue No. | 23 |
| LM End | 1.33 | 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 | | | | |
| Action/Comments | | | | | |
| Building Inspector Comments: Buildings and equipment encroach within 10-ft of landside toe. The boat was removed. | | | | | |

Photo 1 of 1 : mkhashch_s_20140428_00758.jpg



Fall 2009 photo: Buildings and patio decks are built within 10-ft of the levee slope.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | M | Issue No. | 57 |
| LM End | 1.29 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.818499 ° | 37.818499 ° |
| | | | | -121.419754 ° | -121.419754 ° |
| DWR ID | DWR_RD2089_02_f _ 2013_57 | | | | |
| Action/Comments | | | | | |
| Landscaping | | | | | |
| Inspector Comments: Remove cactus from levee crown. | | | | | |

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|---------------------|
| Unit No. 02 Salmon Slough | Right | 1.37 | 05/07/2014 05/07/2014 | Maksim Khashchuk |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.32 | Rating ** | M | Issue No. | 32 |
| LM End | 1.32 | 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 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

No Photos

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