

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

Reclamation District No. 2085 Kasson

	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. 2085 Kasson

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Left	5.20

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/14/2014 - 05/14/2014			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Ralph Timan RD2085			

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. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2085_01_s_2013_7				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2085_01_s_2013_9				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2085_01_s_2013_14				
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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	0.43	Rating **	C	Issue No.	1
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.723489 °	37.723488 °	
			-121.299253 °	-121.298901 °	
DWR ID	DWR_RD2085_01_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.47	Rating **	M	Issue No.	5
LM End	0.47	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.723415 °	37.723415 °	
			-121.298595 °	-121.298595 °	
DWR ID	DWR_RD2085_01_s_2014_5				
Action/Comments					
Inspector Comments: FS_ID:19383 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: Pipe abandoned. Erosion around pipe on WS slope. Pipe severely corroded. Pier badly damaged. FIELD_STRUCT_DESC: 14-inch steel stormdrain pipe through the levee 4.5 feet below crown. Pump on pile structure in ditch on the landward side. Siphon breaker in corrugated metal riser unit on the waterward shoulder. Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 1 : UCIP_1813.jpg



Pump on delapidated pier with no connection.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	0.47	Rating **	C	Issue No.	2
LM End	0.47	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.723396 °	37.723396 °	
			-121.298572 °	-121.298572 °	
DWR ID	DWR_RD2085_01_s_2012_2				
Action/Comments					
Pipe Inspector Comments: Pipe from abandoned drainage pump penetrates levee with no closure devices.					

No Photos

LM Start	0.70	Rating **	M	Issue No.	41
LM End	0.79	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.721272 °	37.720408 °	
			-121.295376 °	-121.294339 °	
DWR ID	DWR_RD2085_01_f_2013_41				
Action/Comments					
Remove the wild growth other than native grasses from the levee					

Photo 1 of 1 : mkhashch_s_20140519_01024.jpg



View of tall vegetation along levee crown obstructing visibility.

LM Start	1.28	Rating **	M	Issue No.	6
LM End	1.32	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.714265 °	37.714056 °	
			-121.289641 °	-121.289069 °	
DWR ID	DWR_RD2085_01_s_2012_6				
Action/Comments					
Ditch Inspector Comments: Drainage ditch at levee toe.					

No Photos

* 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. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	1.29	Rating **	M	Issue No.	11
LM End	1.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714404 °	37.714404 °
				-121.289469 °	-121.289469 °
DWR ID	DWR_RD2085_01_s_2014_11				
Action/Comments					
Inspector Comments: FS_ID:22285 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: No permit identified for this modified crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee 3-feet below the crown. Pump mounted on pile structure in ditch on the landward side. Siphon breaker in 12-inch steel riser unit and a gatevalve on the waterward shoulder. FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_2935.jpg



Pipe, pump, and walkway visible on LS toe.

LM Start	1.35	Rating **	A	Issue No.	21
LM End	1.35	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.714067 °	37.714067 °
				-121.288435 °	-121.288435 °
DWR ID	DWR_RD2085_01_s_2014_21				
Action/Comments					
Pipe Inspector Comments: Pipe has been removed by the LMA.					

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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	1.35	Rating **	M	Issue No.	13
LM End	1.35	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714048 °	37.714048 °
				-121.288425 °	-121.288425 °
DWR ID	DWR_RD2085_01_s_2014_13				
Action/Comments					
Inspector Comments: FS_ID:19385 EP_NO: 3975 Repair Type: Crossing Status: UCIP Comments: Pipe abandoned and should be done so properly. Large hole in ground over pipe on WS berm. Pipe rusted through on WS at river bank. No connection to pump on LS toe. FIELD_STRUCT_DESC: 10-inch steel stormdrain pipe through the levee 4-feet below the crown. Steel plate over pipe end at pump station on LS toe. Siphon breaker in 24-inch corrugated metal riser unit on the waterward shoulder (Permit No. 3975, 1962). Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 1 : UCIP_1816.jpg



Pipe visible at bottom of ditch on LS toe.

LM Start	1.68	Rating **	M	Issue No.	8
LM End	1.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.711917 °	37.710483 °
				-121.283089 °	-121.281030 °
DWR ID	DWR_RD2085_01_f_2013_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : mkhashch_s_20140428_00682.jpg



View of tall vegetation on waterside slope obstructing 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	1.98	Rating **	M	Issue No.	16
LM End	1.98	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.708826 °	37.708826 °	
			-121.279271 °	-121.279271 °	
DWR ID	DWR_RD2085_01_s_2014_16				
Action/Comments					
Inspector Comments: FS_ID:19423 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 8:22:24 AM					

Photo 1 of 1 : UCIP_1824.jpg



Pipe cut at wooden pier. No pump on end of pier for this pipe.

LM Start	1.98	Rating **	M	Issue No.	18
LM End	2.44	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.708737 °	37.703893 °	
			-121.279087 °	-121.274605 °	
DWR ID	DWR_RD2085_01_s_2012_18				
Action/Comments					
Ditch Inspector Comments: Concrete-lined ditch near levee toe.					

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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	2.24	Rating **	M	Issue No.	31
LM End	2.26	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.703094 °	37.703094 °	
			121.274894 °	121.274894 °	
DWR ID	DWR_RD2085_01_s_2014_31				
Action/Comments					
Inspector Comments: 09/20/2013: No significant change observed. 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage. 09/22/2010: No significant changes observed. There is little visibility due to seasonal grass on the berm and slope. 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2013 Site ID:RD2085U01RM66.5]					

Photo 1 of 1 : mkhashch_s_20140428_00687.jpg



Close view of the erosion.

LM Start	2.51	Rating **	A/W	Issue No.	20
LM End	2.51	Issue Type +	Ob	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		37.702903 °	37.702903 °	
			-121.274860 °	-121.274860 °	
DWR ID	DWR_RD2085_01_s_2012_20				
Action/Comments					

Photo 1 of 1 : mkhashch_s_20140519_01025.jpg



View of the underseepage relief wells 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	2.75	Rating **	M	Issue No.	19
LM End	2.75	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.699697 °	37.699697 °	
			-121.276325 °	-121.276325 °	
DWR ID	DWR_RD2085_01_s_2014_19				
Action/Comments					
Inspector Comments: FS_ID:19431 EP_NO: 16970 Repair Type: Crossing Status: UCIP Comments: The wooden walkway on the WS slope is in disrepair. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee 2.0 feet below the crown. Pump on wooden pier at WS slope. Siphon breaker visible next to steel bollard on LS slope. Power pole on LS toe. FS Date: 9/5/2013					

Photo 1 of 1 : UCIP_1828.jpg



Pump on Wooden pier at WS slope.

LM Start	3.04	Rating **	M	Issue No.	29
LM End	3.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.696256 °	37.696256 °	
			-121.276877 °	-121.276877 °	
DWR ID	DWR_RD2085_01_s_2014_29				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : mkhashch_s_20140519_01026.jpg



View of the rodent hole on the waterside levee slope.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	3.23	Rating **	M	Issue No.	25
LM End	3.23	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.693618 °	37.693618 °	
			-121.277639 °	-121.277639 °	
DWR ID	DWR_RD2085_01_s_2014_25				
Action/Comments					
Inspector Comments: FS_ID:19433 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 1 : UCIP_1832.jpg



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

LM Start	3.27	Rating **	N	Issue No.	30
LM End	3.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.693019 °	37.693019 °	
			-121.277892 °	-121.277892 °	
DWR ID	DWR_RD2085_01_s_2014_30				
Action/Comments					
Tree stumps.					

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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	3.28	Rating **	A/W	Issue No.	15
LM End	3.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.692916 °	37.692916 °
				-121.277929 °	-121.277929 °
DWR ID	DWR_RD2085_01_s_2012_15				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : mkhashch_s_20140428_00685.jpg



04/28/2011 Fresh burrow in center of picture, "porch" extends to the grass line.

LM Start	3.34	Rating **	M	Issue No.	26
LM End	3.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.691965 °	37.691965 °
				-121.278122 °	-121.278122 °
DWR ID	DWR_RD2085_01_s_2014_26				
Action/Comments					
Inspector Comments: FS_ID:19435 EP_NO: 16970 Repair Type: Crossing Status: UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2 of 2: 10-inch steel stormdrain pipe through the levee 2-feet below the crown. Appears to connect to pump 150-feet off LS toe. Possible butterfly valve at LS toe. Vent on WS shoulder. Steel plate welded over pipe end on WS toe. FS Date: 9/5/2013					

Photo 1 of 1 : UCIP_1834.jpg



Possible connection at pump 150-feet off LS 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	3.52	Rating **	M	Issue No.	37
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.6889610 °	37.6889610 °	
			-121.276257 °	-121.276257 °	
DWR ID	DWR_RD2085_01_s_2014_37				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : mkhashch_s_20140519_01027.jpg



View of the rodent hole on the landside levee slope.

LM Start	3.58	Rating **	A/W	Issue No.	38
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.688545 °	37.688545 °	
			-121.276298 °	-121.276298 °	
DWR ID	DWR_RD2085_01_s_2014_38				
Action/Comments					
Inspector Comments: 09/10/2013: No significant change observed. 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2013 Site ID:RD2085U01RM67.7]					

Photo 1 of 1 : mkhashch_s_20140428_00692.jpg



Close view of the erosion.

LM Start	3.72	Rating **	A/W	Issue No.	24
LM End	3.72	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.686977 °	37.686977 °	
			-121.276804 °	-121.276804 °	
DWR ID	DWR_RD2085_01_s_2012_24				
Action/Comments					
Pipe Inspector Comments: Discharge from River Club lake.					

No Photos

* 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. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	3.82	Rating **	M	Issue No.	39
LM End	3.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.685552 °	37.685552 °
				-121.276637 °	-121.276637 °
DWR ID	DWR_RD2085_01_s_2014_39				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

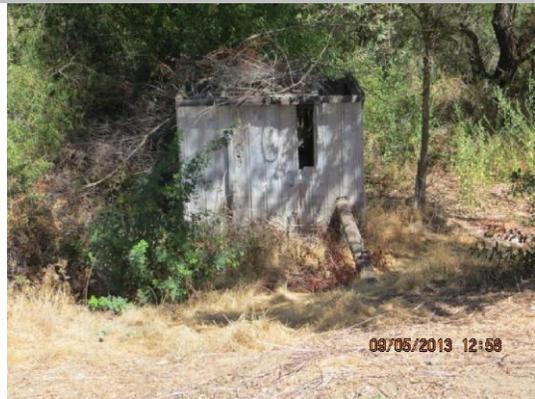
Photo 1 of 1 : mkhashch_s_20140521_038.jpg



View of the rodent hole on the waterside levee slope.

LM Start	3.96	Rating **	M	Issue No.	27
LM End	3.96	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.683641 °	37.683641 °
				-121.275791 °	-121.275791 °
DWR ID	DWR_RD2085_01_s_2014_27				
Action/Comments					
Inspector Comments: FS_ID:19443 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: This pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 4.0-feet below the crown. Pump house on the waterward berm. Siphon breaker in 24-inch corrugated metal riser unit on the landside shoulder. Vent on WS toe. 2-inch galvanized iron electrical conduit at same location. Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 1 : UCIP_1839.jpg



Pumphouse and pipe visible on WS 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	4.18	Rating **	M	Issue No.	54
LM End	4.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.681886 °	37.681332 °	
			-121.272333 °	-121.267518 °	
DWR ID	DWR_RD2085_01_s_2012_54				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : mkhashch_s_20140428_00695.jpg



11/03/2011 Waterside vegetation needs to be maintained on the top 20' of the waterside slope.

LM Start	4.28	Rating **	M	Issue No.	42
LM End	4.28	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.681752 °	37.681752 °	
			-121.270542 °	-121.270542 °	
DWR ID	DWR_RD2085_01_s_2013_42				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 1 : mkhashch_s_20140428_00694.jpg



View of rutting on waterside levee slope and crown.

LM Start	4.32	Rating **	M	Issue No.	33
LM End	4.37	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.681863 °	37.681640 °	
			-121.269856 °	-121.269046 °	
DWR ID	DWR_RD2085_01_s_2012_33				
Action/Comments					
Landscaping					

Photo 1 of 1 : mkhashch_s_20140428_00689.jpg



Updated photo of encroachments on 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	4.38	Rating **	N	Issue No.	32
LM End	4.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.681605 °	37.681605 °	
			-121.268882 °	-121.268882 °	
DWR ID	DWR_RD2085_01_s_2012_32				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : mkhashch_s_20140428_00688.jpg



11/03/2011 Large stump on landside slope.

LM Start	4.51	Rating **	M	Issue No.	17
LM End	4.51	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.681158 °	37.681158 °	
			-121.266587 °	-121.266587 °	
DWR ID	DWR_RD2085_01_f_2013_17				
Action/Comments					
Firewood					

Photo 1 of 1 : mkhashch_s_20140521_039.jpg



View of the firewood stored at the landside levee toe.

LM Start	4.61	Rating **	M	Issue No.	34
LM End	4.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.680394 °	37.676892 °	
			-121.264707 °	-121.269781 °	
DWR ID	DWR_RD2085_01_s_2012_34				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* 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. 2085 Kasson

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	4.70	Rating **	A/W	Issue No.	36
LM End	4.70	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.679527 °	37.679527 °	
			-121.265367 °	-121.265367 °	
DWR ID	DWR_RD2085_01_s_2012_36				
Action/Comments					
Building Inspector Comments: Monitoring station on waterward side.					

Photo 1 of 1 : mkhashch_s_20140428_00691.jpg



04/28/2011 Monitoring station.

LM Start	4.70	Rating **	A/W	Issue No.	35
LM End	4.70	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.679526 °	37.679526 °	
			-121.265367 °	-121.265367 °	
DWR ID	DWR_RD2085_01_s_2012_35				
Action/Comments					
Stairway Inspector Comments: Stairs for monitoring station on landside slope.					

Photo 1 of 1 : mkhashch_s_20140428_00690.jpg



04/28/2011 Stairs on landside slope for monitoring station.

LM Start	4.93	Rating **	M	Issue No.	22
LM End	4.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.677830 °	37.677830 °	
			-121.268769 °	-121.268769 °	
DWR ID	DWR_RD2085_01_f_2013_22				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	5.14	Rating **	M	Issue No.	28
LM End	5.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.675244 °	37.675244 °
				-121.269287 °	-121.269287 °
DWR ID	DWR_RD2085_01_s_2014_28				
Action/Comments					
Inspector Comments: FS_ID:22290 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee at unknown depth below the crown. Siphon breaker in 10-inch steel riser on LS shoulder. FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_2937.jpg



Pipe visible at pond outlet off LS 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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles
Unit No. 02 San Joaquin River			0.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall
Unit Maintenance Rating (Fall Only)			Winter (December - February)
Date of Inspection	05/14/2014 - 05/14/2014		
DWR Inspector	Maksim Khashchuk		
Accompanied By	Ralph Timan RD2085		

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. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	0.11	Rating **	M	Issue No.	4
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.706270 °	37.706270 °	
			-121.273635 °	-121.273635 °	
DWR ID	DWR_RD2085_02_s_2014_4				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : mkhashch_s_20140519_01031.jpg



View of the rodent holes on the waterside levee slope.

LM Start	0.37	Rating **	M	Issue No.	3
LM End	0.66	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.709893 °	37.713716 °	
			-121.272023 °	-121.269682 °	
DWR ID	DWR_RD2085_02_s_2014_3				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : mkhashch_s_20140519_01029.jpg



View of the levee crown partially without all-weather surface.

LM Start	0.67	Rating **	M	Issue No.	1
LM End	0.67	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.713820 °	37.713820 °	
			-121.269685 °	-121.269685 °	
DWR ID	DWR_RD2085_02_s_2012_1				
Action/Comments					
Equipment Inspector Comments: Heavy equipment is being stored on the levee crown.					

Photo 1 of 1 : mkhashch_s_20140519_01030.jpg



View of farming equipment being stored on the levee crown at the end of the spur 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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway		Bank	Unit Miles	
Unit No. 03 San Joaquin River			0.29	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/14/2014 - 05/14/2014			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Ralph Timan RD2085			

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.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	05/14/2014 05/14/2014	Maksim Khashchuk

LM Start	0.20	Rating **	C	Issue No.	4
LM End	0.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.682662 °	37.682662 °	
			-121.262210 °	-121.262210 °	
DWR ID	DWR_RD2085_03_f_2013_4				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Appears to be a fire break. Regrade levee slope to original condition.					

No Photos

LM Start	0.21	Rating **	U	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.682798 °	37.683052 °	
			-121.262059 °	-121.261851 °	
DWR ID	DWR_RD2085_03_s_2014_1				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.					

Photo 1 of 1 : mkhashch_s_20140519_01032.jpg



View of the erosion at the waterside 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
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