

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Spring 2013 Levee Inspection Results**

Reclamation District No. 1660 Tisdale

	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 2013 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Left	3.00

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/05/2013 - 03/05/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Andy Duffey			

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 2013

Reclamation District No. 1660 Tisdale

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Left	3.00	03/05/2013 03/05/2013	Bob Duffey

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1				Operations & Maintenance Manuals	LS	A Ma		°	°	14
								DWR ID: DWR_RD1660_01_s_2013_14		
2				Emergency Supplies & Equipment	LS	A Ma		°	°	15
								DWR ID: DWR_RD1660_01_s_2013_15		
3				Flood Preparedness & Training	LS	A Ma		°	°	16
								DWR ID: DWR_RD1660_01_s_2013_16		
4	0.05	0.05		Encroachments	LS	M En	BU : Building	39.062643 ° -121.837857 °	39.062643 ° -121.837857 °	12 Y
								DWR ID: DWR_RD1660_01_s_2012_12		
5	0.08	0.10		Animal Control	LS	A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.062208 ° -121.837889 °	39.061823 ° -121.837927 °	8 Y
								DWR ID: DWR_RD1660_01_s_2012_8		
6	0.97	0.97		Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.049739 ° -121.839386 °	39.049739 ° -121.839386 °	13 Y
								DWR ID: DWR_RD1660_01_s_2013_13		
7	1.12	1.43		Encroachments	LS	M En	DT : Ditch	39.047610 ° -121.838802 °	39.043622 ° -121.836445 °	9 Y
								DWR ID: DWR_RD1660_01_s_2012_9		
8	1.32	1.35	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2009 - Erosion on levee toe where an old cobble site is failing. 2011 - Some new minor erosion. 2012: Site extended downstream, bank is negatively being impacted from the weight of the trees. [2012 Site ID: SAC_120-6_L]	39.044361 ° -121.837654 °	39.043916 ° -121.837305 °	11 Y
								DWR ID: DWR_RD1660_01_s_2013_11		
9	2.04	2.38		Encroachments	LS	M En	DT : Ditch	39.037640 ° -121.828421 °	39.034416 ° -121.825698 °	1 Y
								DWR ID: DWR_RD1660_01_s_2012_1		
10	2.42	2.42		Slope Stability	LS	M Ma	S1 : Repair slope instability.	39.034107 ° -121.825152 °	39.034107 ° -121.825152 °	2 Y
								DWR ID: DWR_RD1660_01_s_2012_2		
11	2.44	2.44		Slope Stability	LS	M Ma	S1 : Repair slope instability.	39.033858 ° -121.824985 °	39.033858 ° -121.824985 °	4 Y
								DWR ID: DWR_RD1660_01_s_2012_4		
12	2.62	2.62		Animal Control	LS	A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.031520 ° -121.823420 °	39.031520 ° -121.823420 °	10 Y
								DWR ID: DWR_RD1660_01_s_2012_10		
13	2.63	2.63		Encroachments	LS	M Ma	EQ : Equipment	39.031405 ° -121.823403 °	39.031405 ° -121.823403 °	3 Y
								DWR ID: DWR_RD1660_01_s_2012_3		
14	2.68	2.71		Slope Stability	LS	M Ma	S1 : Repair slope instability.	39.030891 ° -121.822956 °	39.030436 ° -121.822617 °	5 Y
								DWR ID: DWR_RD1660_01_s_2012_5		

* 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 2013

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	03/05/2013 03/05/2013	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	0.05
End Levee Mile	0.05
Location	Land Side
Category	
Item	Encroachments
View of the building and fence at the landside toe.	
rduffey_s_20130225_244.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.08
End Levee Mile	0.10
Location	Land Side
Category	
Item	Animal Control
View of the repaired rodent holes along the landside slope of the levee.	
rduffey_s_20130225_238.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Land Side
Category	
Item	Vegetation
View of the berry vines along the landside slope.	
rduffey_s_20130312_309.JPG	



* 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 2013

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	03/05/2013 03/05/2013	Bob Duffey

Levee Mile Report Line	7
Start Levee Mile	1.12
End Levee Mile	1.43
Location	Land Side
Category	
Item	Encroachments
View of the ag ditch along the L/S toe.	
rduffey_s_20130225_239.jpg	



Levee Mile Report Line	8
Start Levee Mile	1.32
End Levee Mile	1.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
rduffey_s_20130225_241.jpg	



Levee Mile Report Line	8
Start Levee Mile	1.32
End Levee Mile	1.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
rduffey_s_20130225_242.jpg	



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Levee Inspection Report By Mile - Spring 2013

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	03/05/2013 03/05/2013	Bob Duffey

Levee Mile Report Line	8
Start Levee Mile	1.32
End Levee Mile	1.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
rduffey_s_20130225_243.jpg	



Levee Mile Report Line	9
Start Levee Mile	2.04
End Levee Mile	2.38
Location	Land Side
Category	
Item	Encroachments
View of the large ditch along the landside toe.	
rduffey_s_20130225_236.jpg	



Levee Mile Report Line	12
Start Levee Mile	2.62
End Levee Mile	2.62
Location	Land Side
Category	
Item	Animal Control
View of rodent holes along the L/S slope.	
rduffey_s_20130225_240.jpg	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	03/05/2013 03/05/2013	Bob Duffey

Levee Mile Report Line	13
Start Levee Mile	2.63
End Levee Mile	2.63
Location	Land Side
Category	
Item	Encroachments
View of equipment along the slope.	
rduffey_s_20130225_237.jpg	



* 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 2013 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway		Bank	Unit Miles
Unit No. 02 Sutter Bypass		Right	9.14

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/05/2013 - 03/05/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Andy Duffey			

Summer & Winter Inspections

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Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 1660 Tisdale

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass				Right	9.14	03/05/2013 03/05/2013	Bob Duffey

LMIR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.93	0.97	Animal Control	LS A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.045810 ° -121.748792 °	39.046332 ° -121.749000 °	3 Y	
						DWR ID: DWR_RD1660_02_s_2012_3			
2	1.55	1.55	Animal Control	WSA/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Beaver holes were repaired by District.	39.054290 ° -121.752319 °	39.054290 ° -121.752319 °	7 Y	
						DWR ID: DWR_RD1660_02_s_2012_7			
3	1.57	1.61	Animal Control	LS A/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.054595 ° -121.752460 °	39.055170 ° -121.752698 °	4 Y	
						DWR ID: DWR_RD1660_02_s_2012_4			
4	3.80	3.80	Encroachments	WS M En	TR : Tree or limb	39.085233 ° -121.765229 °	39.085233 ° -121.765229 °	5 Y	
						DWR ID: DWR_RD1660_02_s_2013_5			
5	5.07	5.07	Animal Control	WSA/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.102052 ° -121.774477 °	39.102052 ° -121.774477 °	6 Y	
						DWR ID: DWR_RD1660_02_s_2012_6			
6	6.48	6.48	Encroachments	WS M En	TR : Tree or limb	39.114934 ° -121.794431 °	39.114934 ° -121.794431 °	8 Y	
						DWR ID: DWR_RD1660_02_s_2013_8			

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.14	03/05/2013 03/05/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.93
End Levee Mile	0.97
Location	Land Side
Category	
Item	Animal Control
View of rodent holes along the L/S slope.	
rduffey_s_20130225_245.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.93
End Levee Mile	0.97
Location	Land Side
Category	
Item	Animal Control
View of the repaired rodent holes on the landside slope.	
rduffey_s_20130225_246.JPG	



Levee Mile Report Line	2
Start Levee Mile	1.55
End Levee Mile	1.55
Location	Water Side
Category	
Item	Animal Control
View of the repaired rodent holes on the landside slope of the levee.	
rduffey_s_20130225_249.JPG	



* 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 2013

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.14	03/05/2013 03/05/2013	Bob Duffey

Levee Mile Report Line	3
Start Levee Mile	1.57
End Levee Mile	1.61
Location	Land Side
Category	
Item	Animal Control
View of the repaired rodent holes on the landside slope of the levee.	
rduffey_s_20130225_247.JPG	



Levee Mile Report Line	4
Start Levee Mile	3.80
End Levee Mile	3.80
Location	Water Side
Category	
Item	Encroachments
View of the downed tree on the land water slope.	
rduffey_s_20130312_313.JPG	



Levee Mile Report Line	5
Start Levee Mile	5.07
End Levee Mile	5.07
Location	Water Side
Category	
Item	Animal Control
View of the repaired rodent hole on the waterside slope.	
rduffey_s_20130225_248.JPG	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.14	03/05/2013 03/05/2013	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Water Side
Category	
Item	Encroachments
View of the downed tree on the water side slope.	
rduffey_s_20130312_314.JPG	



* 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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