

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2010 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD1600</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 1600 Mull</b>	<b>U</b>	<b>14.73</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	2.55		2.55	17.31%		
Trim / Thin Trees	0.01	0.01	0.05	0.34%		
Encroachments	0.04		0.04	0.27%	0.01	0.08
Animal Control	0.04		0.04	0.27%		
Erosion / Bank Caving	1.02		1.02	6.93%		
<i>LMA Totals:</i>	3.66	0.01	3.70	25.12%	0.01	0.08

  

<b>Unit No. 01 Sacramento River</b>	Overall Unit Rating	Total Unit Miles				
	<b>M</b>	<b>10.51</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	1.63		1.63	15.51%		
Trim / Thin Trees	0.01	0.01	0.05	0.48%		
Encroachments	0.04		0.04	0.38%	0.01	0.08
Animal Control	0.01		0.01	0.10%		
Erosion / Bank Caving	0.37		0.37	3.52%		
<i>Unit Totals:</i>	2.06	0.01	2.10	19.98%	0.01	0.08

  

<b>Unit No. 02 Yolo Bypass</b>	Overall Unit Rating	Total Unit Miles				
	<b>U</b>	<b>4.22</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.92		0.92	21.80%		
Animal Control	0.03		0.03	0.71%		
Erosion / Bank Caving	0.65		0.65	15.40%		
<i>Unit Totals:</i>	1.60	0.00	1.60	37.92%	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2010 Levee Inspection Results**

**Reclamation District No. 1600 Mull**

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

\*\* 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.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 1600 Mull**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	10.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	3/16/2010		10/12/2010	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Kent Lang RD1600		Kent Lang RD1600	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River				Right	10.51	11/22/2010 11/22/2010	John Williamson

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.01	0.09	Earthen Levee	Encroachments	WS	CO	Fences Inspector Comments: chain link completely blocks access to waters edge	38.675242 ° -121.630492 °	38.676356 ° -121.631157 °	3 Y
2	0.06	0.06	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: this is the home and pumping plant for RD 2035	38.675998 ° -121.630732 °	38.675998 ° -121.630732 °	1
3	0.21	0.21	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Arundo	38.677920 ° -121.632092 °	38.677920 ° -121.632093 °	2 Y
4	0.35	0.35	Earthen Levee	Encroachments	WS	C	Material Inspector Comments: old metal inlet funnel on waterside berm needs to be removed	38.679561 ° -121.633107 °	38.679561 ° -121.633107 °	6
5	0.54	0.54	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: old pipe from previous repair of pump on levee slope	38.682198 ° -121.634110 °	38.682198 ° -121.634110 °	7 Y
6	0.62	0.62	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: willows need to be controled	38.683323 ° -121.634422 °	38.683323 ° -121.634422 °	4 Y
7	1.24	1.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Keep the crown roadway free of vegetation. Inspector Comments: tall weeds in center of crown	38.692139 ° -121.635438 °	38.694396 ° -121.634348 °	8
8	1.54	1.59	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.696379 ° -121.633414 °	38.696937 ° -121.633046 °	5 Y
9	1.71	1.71	Earthen Levee	Encroachments	WS	M	Material Inspector Comments: old metal ramp from unused dock, ramp is on levee shoulder	38.698364 ° -121.631926 °	38.698364 ° -121.631926 °	9 Y
10	2.00	5.89	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Keep the crown roadway free of vegetation. Inspector Comments: weeds cover crown	38.701435 ° -121.628240 °	38.749309 ° -121.597185 °	10
11	2.74	2.74	Earthen Levee	Trim / Thin Trees	CR	C	Trim trees over roadway to at least 12 feet above ground level.	38.708532 ° -121.617962 °	38.708532 ° -121.617962 °	16
12	4.81	5.19	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: mares tail has taken over	38.735065 ° -121.604953 °	38.740265 ° -121.603097 °	24 Y
13	5.43	5.43	Earthen Levee	Vegetation	LS	W	Elderberries are blocking visibility and flood fight capability.	38.743632 ° -121.601173 °	38.743632 ° -121.601173 °	13
14	5.48	5.81	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.744118 ° -121.601104 °	38.748210 ° -121.598025 °	19
15	5.88	5.88	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.749162 ° -121.597271 °	38.749162 ° -121.597271 °	12 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated  
C : Corrected  
W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 01 Sacramento River						Right	10.51	11/22/2010 11/22/2010		John Williamson
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	6.22	6.22	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	38.753658 ° -121.595082 °	38.753658 ° -121.595082 °	25 Y
17	6.33	6.33	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: fig tree needs to be trimmed or removed cactus at levee toe	38.755242 ° -121.594620 °	38.755242 ° -121.594620 °	15 Y
18	6.61	6.73	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.759289 ° -121.594104 °	38.761042 ° -121.594256 °	26 Y
19	6.62	6.68	Earthen Levee	Trim / Thin Trees	LS	C	Thin trees to allow visibility of the ground and room to flood fight.	38.759531 ° -121.594108 °	38.760358 ° -121.594164 °	11
20	7.00	7.00	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.764940 ° -121.595348 °	38.764940 ° -121.595348 °	14
21	7.02	7.02	Earthen Levee	Erosion / Bank Caving	LS	M	Note and monitor erosion site.	38.764974 ° -121.595533 °	38.764974 ° -121.595533 °	27 Y
22	7.13	7.13	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.766505 ° -121.596214 °	38.766505 ° -121.596214 °	20
23	7.27	7.27	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.768409 ° -121.597213 °	38.768409 ° -121.597213 °	21
24	7.85	7.85	Earthen Levee	Encroachments	LS	M	Pipe	38.775499 ° -121.602735 °	38.775499 ° -121.602735 °	17 Y
25	9.71	10.42	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.775982 ° -121.630072 °	38.766575 ° -121.634065 °	28 Y
26	9.75	9.75	Earthen Levee	Animal Control	WS	W	Exterminate rodents and backfill and compact or grout burrows.	38.775523 ° -121.630720 °	38.775523 ° -121.630720 °	22
27	9.96	10.31	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.772810 ° -121.631638 °	38.767757 ° -121.633117 °	29 Y
28	10.31	10.31	Earthen Levee	Encroachments	CR	M	Equipment Inspector Comments: electrical wire cross the levee crown. No damage to crown.	38.767757 ° -121.633117 °	38.767757 ° -121.633117 °	30 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.09
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Chain link fence no permit. The building and pumping plant in background is an issue.

johngw\_f\_20101012\_173.jpg



Levee Mile Report Line	3
Start Levee Mile	0.21
End Levee Mile	0.21
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The Arundo is close to the repair area but spreads upstream.

johngw\_f\_20101122\_373.jpg



Levee Mile Report Line	3
Start Levee Mile	0.21
End Levee Mile	0.21
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The Arundo has spread upstream and most is below the 20' line on the waterside..

johngw\_f\_20101122\_374.jpg



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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	5
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The rusty pipe is still laying on the shoulder to be pick-up.

johngw\_f\_20101122\_375.jpg



Levee Mile Report Line	6
Start Levee Mile	0.62
End Levee Mile	0.62
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The sandbar willows are creeping up the levee slope.

johngw\_f\_20101122\_376.jpg



Levee Mile Report Line	8
Start Levee Mile	1.54
End Levee Mile	1.59
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Sandbar willows are too far up the slope and too thick to see through.

johngw\_f\_20101122\_377.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	9
Start Levee Mile	1.71
End Levee Mile	1.71
Location	Water Side
Category	Earthen Levee
Item	Encroachments

ramp for dock not being used

johngw\_f\_20101012\_176.jpg



Levee Mile Report Line	12
Start Levee Mile	4.81
End Levee Mile	5.19
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The vegetation is taller than 12" and a large quantity of Mares tail

johngw\_f\_20101122\_378.jpg



Levee Mile Report Line	15
Start Levee Mile	5.88
End Levee Mile	5.88
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Almond tree blocking levee slope view.

johngw\_f\_20101012\_177.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	16
Start Levee Mile	6.22
End Levee Mile	6.22
Location	Land Side
Category	Earthen Levee
Item	Animal Control

There is a cluster of rodent holes on the landside.

johngw\_f\_20101122\_379.jpg



Levee Mile Report Line	17
Start Levee Mile	6.33
End Levee Mile	6.33
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

fig tree on levee slope, cactus in back ground

johngw\_f\_20101012\_178.jpg



Levee Mile Report Line	18
Start Levee Mile	6.61
End Levee Mile	6.73
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The vegetation is taller than 12".

johngw\_f\_20101122\_380.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	21
Start Levee Mile	7.02
End Levee Mile	7.02
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The erosion appears to be moving closer to the shoulder.

johngw\_f\_20101122\_381.jpg



Levee Mile Report Line	24
Start Levee Mile	7.85
End Levee Mile	7.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments

drilling pipe on levee crown landside

johngw\_f\_20101012\_179.jpg



Levee Mile Report Line	25
Start Levee Mile	9.71
End Levee Mile	10.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The vegetation is taller than 12" and the willows are creeping up the slope.

johngw\_f\_20101122\_382.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	27
Start Levee Mile	9.96
End Levee Mile	10.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The vegetation is taller than 12" and makes viewing the slope hard.

johngw\_f\_20101122\_383.jpg



Levee Mile Report Line	28
Start Levee Mile	10.31
End Levee Mile	10.31
Location	Crown
Category	Earthen Levee
Item	Encroachments

Electrical power is laying across the levee needs to get a permit.

johngw\_f\_20101122\_384.jpg



Levee Mile Report Line	28
Start Levee Mile	10.31
End Levee Mile	10.31
Location	Crown
Category	Earthen Levee
Item	Encroachments

A photo of the wires on the ground and the tie in to the pump.

johngw\_f\_20101122\_385.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	28
Start Levee Mile	10.31
End Levee Mile	10.31
Location	Crown
Category	Earthen Levee
Item	Encroachments

The photo is the old conduit with the old wire cut off.

johngw\_f\_20101122\_386.jpg



Levee Mile Report Line	28
Start Levee Mile	10.31
End Levee Mile	10.31
Location	Crown
Category	Earthen Levee
Item	Encroachments

The electrical box on the landside toe.

johngw\_f\_20101122\_387.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 1600 Mull**

Waterway			Bank	Unit Miles
Unit No. 02 Yolo Bypass			Left	4.22

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/16/2010		10/12/2010	
DWR Inspector	John Williamson		John Williamson	
Accompanied By				

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DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 02 Yolo Bypass						Left	4.22	11/22/2010 11/22/2010		John Williamson
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.40	0.90	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.730269 ° -121.633459 °	38.723029 ° -121.633440 °	1 Y
2	0.40	0.82	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.730269 ° -121.633458 °	38.724142 ° -121.633387 °	2 Y
3	0.45	0.47	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	38.729063 ° -121.633448 °	38.728777 ° -121.633442 °	3
4	0.58	0.75	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	38.727183 ° -121.633440 °	38.724817 ° -121.633452 °	4
5	0.81	0.81	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Hole in the levee crown likely from rodents.	38.724389 ° -121.633408 °	38.724389 ° -121.633408 °	7 Y
6	0.81	4.18	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Keep the crown roadway free of vegetation. Inspector Comments: crown has been mowed, weeds on crown	38.724346 ° -121.633403 °	38.677034 ° -121.643377 °	5
7	1.08	1.35	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.720023 ° -121.633894 °	38.716205 ° -121.634895 °	13
8	1.74	2.01	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.710763 ° -121.637147 °	38.707116 ° -121.638722 °	14
9	2.12	2.23	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.705614 ° -121.639357 °	38.704052 ° -121.640016 °	15
10	3.97	3.97	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	38.679945 ° -121.644045 °	38.679945 ° -121.644045 °	8
11	4.08	4.08	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	38.678363 ° -121.643879 °	38.678363 ° -121.643879 °	9

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated  
C : Corrected  
W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/22/2010 11/22/2010	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.40
End Levee Mile	0.90
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The waterside vegetation is taller than 12"

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Levee Mile Report Line	2
Start Levee Mile	0.40
End Levee Mile	0.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The landside vegetation is taller than 12" but not as thick as the waterside.

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Levee Mile Report Line	5
Start Levee Mile	0.81
End Levee Mile	0.81
Location	Crown
Category	Earthen Levee
Item	Animal Control

A 4" diameter hole is in the levee crown caused by a rodent.

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**\* Location**

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