

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2009 Levee Inspection Results

Reclamation District No. 1602

	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.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2009 Levee Inspection Results

Reclamation District No. 1602

Waterway		Bank	Unit Miles
Unit No. 01 San Joaquin River		Left	6.30

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/14/2009 - 4/14/2009			
DWR Inspector	David Pesavento			
Accompanied By				

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 - Spring 2009

Reclamation District No. 1602

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/14/2009 04/14/2009	David Pesavento

LMR Line	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
1	0.00	0.11	Earthen Levee	Encroachments	CR	PO	Buildings Inspector Comments: Animal pens across levee crown	37.476560 ° -121.083862 °	37.477295 ° -121.082087 °	Y	1
2	0.11	0.58	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.477257 ° -121.081990 °	37.480288 ° -121.074923 °	Y	7
3	0.11	0.58	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.477257 ° -121.081990 °	37.480287 ° -121.074922 °		6
4	0.11	0.58	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Keep the crown roadway free of vegetation.	37.477257 ° -121.081990 °	37.480287 ° -121.074920 °	Y	5
5	0.11	1.12	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Several borrows at this location, ~20 2"/100 sq ft, few squirrels seen	37.477257 ° -121.081990 °	37.478440 ° -121.066935 °	Y	8
6	0.12	0.58	Earthen Levee	Vegetation	CR	M	Remove the wild growth other than native grasses from the levee slopes.	37.477237 ° -121.081935 °	37.480293 ° -121.074867 °		34
7	0.61	6.27	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.479963 ° -121.074585 °	37.429120 ° -121.029776 °		54
8	0.61	6.27	Earthen Levee	Vegetation	CR	M	Control annual grass and weeds on the levee slopes and easements.	37.479962 ° -121.074582 °	37.429098 ° -121.029781 °		53
9	0.61	6.27	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.479958 ° -121.074587 °	37.429103 ° -121.029780 °		52
10	0.73	0.73	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: Tires & trash at land toe	37.478489 ° -121.073388 °	37.478489 ° -121.073388 °	Y	35
11	0.99	0.99	Earthen Levee	Encroachments	WS	PO	Ramp	37.478719 ° -121.069072 °	37.478719 ° -121.069072 °		36
12	1.00	1.30	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	° °	° °		38
13	1.02	1.02	Interior Drainage & Piping Systems	Encroachments	WS	M	Inspector Comments: Installation is incorrect and type of pipe (PVC)	37.478838 ° -121.068707 °	37.478838 ° -121.068707 °	Y	9
14	1.04	1.04	Interior Drainage & Piping Systems	Concrete Tilting / Settlement	WS	M	Inspector Comments: The outlet headwall is tilting away from the pipe rendering the existing flapgate ineffective. Repair gap between pipe and headwall and stabilize headwall to prevent further damage.	37.478678 ° -121.068305 °	37.478678 ° -121.068305 °	Y	55

*** 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
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River				Left	6.30	04/14/2009 04/14/2009	David Pesavento	

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
15	1.07	1.07	Earthen Levee	Slope Stability	WS	M	Repair slope instability. Inspector Comments: small amount of slumping at water toe	37.478567 ° -121.067847 °	37.478567 ° -121.067847 °	Y	37
16	1.66	1.66	Earthen Levee	Encroachments	WS	M	Prunings	37.477248 ° -121.058587 °	37.477248 ° -121.058587 °		56
17	1.66	1.66	Earthen Levee	Encroachments	LS	M	Tree or limb	37.477189 ° -121.058459 °	37.477189 ° -121.058459 °		57
18	1.78	1.86	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	37.475550 ° -121.057953 °	37.474433 ° -121.057931 °		39
19	1.82	1.82	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.474997 ° -121.057959 °	37.474997 ° -121.057959 °		58
20	2.02	2.12	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	37.472093 ° -121.057833 °	37.470891 ° -121.057165 °		40
21	2.24	3.45	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.470119 ° -121.055117 °	37.459606 ° -121.043240 °		59
22	2.44	2.46	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.470258 ° -121.051638 °	37.470157 ° -121.051398 °		12
23	2.84	2.95	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.466622 ° -121.046098 °	37.465462 ° -121.044806 °		41
24	3.49	3.49	Earthen Levee	Encroachments	LS	M	Debris Inspector Comments: Tire at land side toe.	37.459144 ° -121.043661 °	37.459144 ° -121.043661 °		60
25	3.70	4.24	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	37.456377 ° -121.044507 °	37.450020 ° -121.039241 °		15
26	3.70	4.24	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	37.456373 ° -121.044507 °	37.450023 ° -121.039234 °		14
27	3.85	3.85	Earthen Levee	Encroachments	LS	PO	Landscaping	37.454574 ° -121.043142 °	37.454574 ° -121.043142 °	Y	42
28	3.90	3.90	Earthen Levee	Encroachments	WS	M	Prunings	37.453879 ° -121.042745 °	37.453879 ° -121.042745 °		61
29	3.96	3.96	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Significant damage to Corps constructed seepage berm due to human activity.	37.453216 ° -121.042127 °	37.453216 ° -121.042127 °	Y	62
30	3.97	4.07	Earthen Levee	Encroachments	LS	PO	Fences	37.452983 ° -121.042301 °	37.451866 ° -121.041206 °		63

*** 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
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River						Left	6.30	04/14/2009 04/14/2009	David Pesavento	

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
31	4.21	4.24	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.450285 ° -121.039478 °	37.450011 ° -121.039244 °		43
32	4.50	4.66	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.446485 ° -121.038037 °	37.444290 ° -121.037953 °		64
33	4.52	4.79	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	37.446352 ° -121.037877 °	37.442610 ° -121.037083 °		17
34	4.52	4.55	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.446341 ° -121.037877 °	37.445817 ° -121.037777 °		45
35	4.52	4.52	Earthen Levee	Encroachments	LS	PO	Prunings	37.446197 ° -121.037967 °	37.446197 ° -121.037967 °	Y	44
36	4.66	4.66	Earthen Levee	Encroachments	LS	M	Prunings	37.444321 ° -121.037904 °	37.444321 ° -121.037904 °		65
37	4.89	4.89	Earthen Levee	Encroachments	LS	C	Prunings	37.441236 ° -121.036784 °	37.441236 ° -121.036784 °		18
38	4.90	5.17	Earthen Levee	Vegetation	LS	C	Control annual grass and weeds on the levee slopes and easements.	37.441123 ° -121.036862 °	37.437525 ° -121.036970 °		46
39	4.92	4.92	Earthen Levee	Encroachments	LS	C	Debris	37.440905 ° -121.036996 °	37.440905 ° -121.036996 °		47
40	5.10	5.15	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.438428 ° -121.037197 °	37.437788 ° -121.037028 °		19
41	5.21	5.22	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.437015 ° -121.036787 °	37.436835 ° -121.036703 °		20
42	5.28	5.34	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.436155 ° -121.036153 °	37.435442 ° -121.035380 °		21
43	5.28	5.50	Earthen Levee	Vegetation	LS	C	Control annual grass and weeds on the levee slopes and easements.	37.436141 ° -121.036055 °	37.433666 ° -121.033841 °		48
44	5.28	5.31	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.436115 ° -121.036009 °	37.435833 ° -121.035590 °		49
45	5.36	5.36	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.435223 ° -121.035318 °	37.435223 ° -121.035318 °		24
46	5.38	5.38	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.434953 ° -121.035183 °	37.434953 ° -121.035183 °		25
47	5.49	5.49	Earthen Levee	Encroachments	WS	C	Prunings	37.433767 ° -121.033977 °	37.433767 ° -121.033977 °		26

*** 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
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River						Left	6.30	04/14/2009 04/14/2009	David Pesavento	

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
48	5.63	5.74	Earthen Levee	Vegetation	LS	C	Control annual grass and weeds on the levee slopes and easements.	37.433110 ° -121.031725 °	37.432996 ° -121.029756 °		50
49	5.92	5.92	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.433097 ° -121.026559 °	37.433097 ° -121.026559 °		66
50	5.95	5.95	Earthen Levee	Encroachments	WS	M	Prunings	37.432776 ° -121.026166 °	37.432776 ° -121.026166 °		67
51	5.96	6.26	Earthen Levee	Vegetation	LS	C	Control annual grass and weeds on the levee slopes and easements.	37.432555 ° -121.026263 °	37.429184 ° -121.029659 °		51
52	6.17	6.17	Earthen Levee	Encroachments	WS	PO	Landscaping Inspector Comments: Remove cactus from waterside of levee.	37.430308 ° -121.028663 °	37.430308 ° -121.028663 °		68
53	6.21	6.21	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.429815 ° -121.029087 °	37.429815 ° -121.029087 °		33

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/14/2009 04/14/2009	David Pesavento

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.11
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking at animal pens on crown of levee from LM 0.00 to 0.11	



Levee Mile Report Line	2
Start Levee Mile	0.11
End Levee Mile	0.58
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Levee overgrown-mow weeds/wild growth on crown, waterside & landside	



Levee Mile Report Line	4
Start Levee Mile	0.11
End Levee Mile	0.58
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Vegetation overgrown of levee crown from LM 0.11 to 0.58	

*** 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

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/14/2009 04/14/2009	David Pesavento

Levee Mile Report Line	5
Start Levee Mile	0.11
End Levee Mile	1.12
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Typical picture of animal borrows on landward slope from LM 0.11 to 0.58



Levee Mile Report Line	10
Start Levee Mile	0.73
End Levee Mile	0.73
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Remove debris within 10 feet of landside toe



Levee Mile Report Line	13
Start Levee Mile	1.02
End Levee Mile	1.02
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Encroachments

PVC sleeve through steel pipe on waterward slope at LM 1.02



*** 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

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/14/2009 04/14/2009	David Pesavento

Levee Mile Report Line	13
Start Levee Mile	1.02
End Levee Mile	1.02
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Encroachments
PVC pipe connected to steel pipe on landward toe at LM 1.02	



Levee Mile Report Line	14
Start Levee Mile	1.04
End Levee Mile	1.04
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Concrete Tilting / Settlement
Separation of outfall structure from the outlet pipe at LM 1.04.	



Levee Mile Report Line	14
Start Levee Mile	1.04
End Levee Mile	1.04
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Concrete Tilting / Settlement
Additional view of outfall structure at LM 1.04.	

*** 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

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/14/2009 04/14/2009	David Pesavento

Levee Mile Report Line	15
Start Levee Mile	1.07
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
small amount of slumping at water toe	



Levee Mile Report Line	27
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Remove landscaping from within 10' of landside toe	



Levee Mile Report Line	29
Start Levee Mile	3.96
End Levee Mile	3.96
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Repair damage to Corp constructed seepage berm by pedestrian and cycle traffic at LM 3.96.	

*** 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

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 1602

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/14/2009 04/14/2009	David Pesavento

Levee Mile Report Line	35
Start Levee Mile	4.52
End Levee Mile	4.52
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Dispose of prunings on waterside slope



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable N : Not Inspected