

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0556	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0556 Upper Andrus	U	11.19						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	21.96	1.40	27.56	246.29%	0.73	0.06		
Trim / Thin Trees	4.55	0.03	4.67	41.73%				
Encroachments	0.01	0.09	0.37	3.31%	0.94	0.68		
Animal Control	3.58		3.58	31.99%				
Erosion / Bank Caving	0.06		0.06	0.54%				
Closure Structures	0.30		0.30	2.68%				
Operations & Maintenance Manuals	0.11		0.11	0.98%				
Emergency Supplies & Equipment	0.11		0.11	0.98%				
Flood Preparedness & Training	0.11		0.11	0.98%				
<i>Supplemental</i>								
USACE Erosion Survey	1.15		1.15	10.28%				
<i>LMA Totals:</i>	31.95	1.52	38.03	339.86%	1.67	0.74	0.00	0.00

Unit No. 01 Georgiana Slough RB	Overall Unit Rating	Total Unit Miles						
RD0556	U	5.47						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.27	0.69	4.03	73.67%	0.36			
Trim / Thin Trees	0.85	0.03	0.97	17.73%				
Encroachments	0.01	0.03	0.13	2.38%	0.50	0.02		
Animal Control	3.58		3.58	65.45%				
Erosion / Bank Caving	0.06		0.06	1.10%				
Closure Structures	0.30		0.30	5.48%				
<i>Supplemental</i>								
USACE Erosion Survey	0.15		0.15	2.74%				
<i>Unit Totals:</i>	6.22	0.75	9.22	168.56%	0.86	0.02	0.00	0.00

Unit No. 02 Sacramento River LB	Overall Unit Rating	Total Unit Miles						
RD0556	U	5.72						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	20.69	0.71	23.53	411.36%	0.37	0.06		
Trim / Thin Trees	3.70		3.70	64.69%				
Encroachments		0.06	0.24	4.20%	0.44	0.66		
<i>Supplemental</i>								
USACE Erosion Survey	1.00		1.00	17.48%				
<i>Unit Totals:</i>	25.39	0.77	28.47	497.73%	0.81	0.72	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2012 Levee Inspection Results

Reclamation District No. 0556 Upper Andrus

	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 2012 Levee Inspection Results

Reclamation District No. 0556 Upper Andrus

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough			Right	5.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/27/2012 - 04/27/2012		10/02/2012 - 10/02/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	DuWain Silva RD 556		DuWain Silva RD 556	

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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough					Right	5.47	10/02/2012 10/02/2012	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	M Ma		°	°	3
DWR ID: DWR_RD0556_01_s_2012_3										
2			Earthen Levee	Emergency Supplies & Equipment	LS	M Ma		°	°	6
DWR ID: DWR_RD0556_01_s_2012_6										
3			Earthen Levee	Flood Preparedness & Training	LS	M Ma		°	°	11
DWR ID: DWR_RD0556_01_s_2012_11										
4	0.00	0.00	Earthen Levee	Vegetation	LS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.238052 ° -121.518178 °	38.238052 ° -121.518178 °	7
DWR ID: DWR_RD0556_01_s_2012_7										
5	0.17	0.42	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.236667 ° -121.518062 °	38.233755 ° -121.520320 °	31
DWR ID: DWR_RD0556_01_f_2012_31										
6	0.21	0.80	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.236107 ° -121.517979 °	38.229459 ° -121.524805 °	8
DWR ID: DWR_RD0556_01_s_2012_8										
7	0.42	0.42	Earthen Levee	Encroachments	WS	U Ma	TR : Tree or limb Inspector Comments: At this location there is a dead tree. Remove it from the levee section.	38.233775 ° -121.520351 °	38.233775 ° -121.520351 °	61 Y
DWR ID: DWR_RD0556_01_f_2012_61										
8	0.49	0.49	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.232899 ° -121.521250 °	38.232899 ° -121.521254 °	10
DWR ID: DWR_RD0556_01_f_2012_10										
9	0.80	3.35	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.229459 ° -121.524805 °	38.208959 ° -121.541368 °	12
DWR ID: DWR_RD0556_01_s_2012_12										
10	0.87	0.88	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.228861 ° -121.525826 °	38.228744 ° -121.525897 °	33
DWR ID: DWR_RD0556_01_f_2012_33										
11	0.89	0.90	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.228680 ° -121.526200 °	38.228618 ° -121.526290 °	5
DWR ID: DWR_RD0556_01_s_2012_5										
12	0.95	1.22	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.228016 ° -121.526868 °	38.227854 ° -121.530291 °	1
DWR ID: DWR_RD0556_01_s_2012_1										
13	1.04	1.27	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.226780 ° -121.527465 °	38.227966 ° -121.531176 °	36
DWR ID: DWR_RD0556_01_f_2012_36										
14	1.08	1.08	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.226887 ° -121.528022 °	38.226887 ° -121.528022 °	14
DWR ID: DWR_RD0556_01_s_2012_14										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Georgiana Slough				Right	5.47	10/02/2012 10/02/2012	Herman Phillips	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	1.27	1.35	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.227966 ° -121.531173 °	38.227438 ° -121.532495 °	38
DWR ID: DWR_RD0556_01_f_2012_38										
16	1.27	1.27	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.227967 ° -121.531180 °	38.227967 ° -121.531180 °	37
DWR ID: DWR_RD0556_01_f_2012_37										
17	1.39	1.39	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.227016 ° -121.533105 °	38.227016 ° -121.533105 °	21
DWR ID: DWR_RD0556_01_f_2012_21										
18	1.43	1.43	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.226537 ° -121.533512 °	38.226537 ° -121.533512 °	40
DWR ID: DWR_RD0556_01_f_2012_40										
19	1.49	1.49	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.225840 ° -121.534157 °	38.225840 ° -121.534157 °	22
DWR ID: DWR_RD0556_01_s_2012_22										
20	1.55	1.57	Earthen Levee	Encroachments	WS	U En	TR : Tree or limb Inspector Comments: These cut up tree sections remain on the waterward slope. The owner is on the Reclamation District's Board, Mr. Silva said he will ask him to remove the encroachment 11-16-2011.	38.225191 ° -121.534799 °	38.224976 ° -121.535043 °	9 Y
DWR ID: DWR_RD0556_01_s_2012_9										
21	1.59	1.68	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.224769 ° -121.535569 °	38.224451 ° -121.536927 °	2
DWR ID: DWR_RD0556_01_s_2012_2										
22	1.64	1.69	Earthen Levee	Vegetation	WS	M En	V6 : Landscaping	38.224623 ° -121.536320 °	38.224408 ° -121.537180 °	17
DWR ID: DWR_RD0556_01_s_2012_17										
23	1.65	1.68	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.224567 ° -121.536523 °	38.224438 ° -121.537048 °	18
DWR ID: DWR_RD0556_01_s_2012_18										
24	1.77	2.07	Earthen Levee	Closure Structures	LS	M Ma		38.224001 ° -121.538586 °	38.223234 ° -121.543999 °	20
DWR ID: DWR_RD0556_01_s_2012_20										
25	1.89	1.89	Earthen Levee	Encroachments	WS	M Ma	GA : Garbage	38.223780 ° -121.540718 °	38.223780 ° -121.540718 °	41
DWR ID: DWR_RD0556_01_f_2012_41										
26	2.32	2.32	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.219858 ° -121.544021 °	38.219858 ° -121.544021 °	15 Y
DWR ID: DWR_RD0556_01_s_2012_15										
27	2.32	2.34	Earthen Levee	Trim / Thin Trees	LS	U Ma	T1 : Trim trees to at least five feet above ground level.	38.219822 ° -121.544000 °	38.219592 ° -121.543927 °	24 Y
DWR ID: DWR_RD0556_01_s_2012_24										
28	2.37	2.42	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.219083 ° -121.543872 °	38.218410 ° -121.543865 °	25
DWR ID: DWR_RD0556_01_s_2012_25										

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En : Enforcement

Reclamation District No. 0556 Upper Andrus

* Location	** Rating	+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Georgiana Slough				Right	5.47	10/02/2012 10/02/2012	Herman Phillips	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
44	3.00	3.00	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.212113 ° -121.537142 °	38.212113 ° -121.537142 °	50
DWR ID: DWR_RD0556_01_f_2012_50										
45	3.12	3.15	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.211010 ° -121.538043 °	38.210857 ° -121.538632 °	39
DWR ID: DWR_RD0556_01_s_2012_39										
46	3.16	3.17	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.210839 ° -121.538773 °	38.210767 ° -121.538952 °	52
DWR ID: DWR_RD0556_01_f_2012_52										
47	3.24	3.24	Earthen Levee	Encroachments	WSA/W En	PI : Pipe	Inspector Comments: At levee mile 3.24 there is an irrigation pipe with filter system landward.	38.210882 ° -121.538674 °	38.210882 ° -121.538674 °	23
DWR ID: DWR_RD0556_01_s_2012_23										
48	3.26	3.26	Earthen Levee	Trim / Thin Trees	LS	U Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: These trees need to be trimmed and thinned in order to see the ground.	38.210145 ° -121.540337 °	38.210145 ° -121.540337 °	13 Y
DWR ID: DWR_RD0556_01_f_2012_13										
49	3.26	3.35	Earthen Levee	Encroachments	LS	M En	FE : Fence	38.210059 ° -121.540412 °	38.208927 ° -121.541338 °	54
DWR ID: DWR_RD0556_01_f_2012_54										
50	3.26	3.91	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.210058 ° -121.540412 °	38.201618 ° -121.542364 °	56 Y
DWR ID: DWR_RD0556_01_f_2012_56										
51	3.31	3.32	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.209525 ° -121.540880 °	38.209352 ° -121.540972 °	46
DWR ID: DWR_RD0556_01_s_2012_46										
52	3.35	3.42	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.208982 ° -121.541340 °	38.208112 ° -121.541558 °	48
DWR ID: DWR_RD0556_01_s_2012_48										
53	3.44	3.46	Earthen Levee	Encroachments	WS	U Ma	PI : Pipe	38.207812 ° -121.541683 °	38.207552 ° -121.541755 °	51 Y
DWR ID: DWR_RD0556_01_s_2012_51										
54	3.45	3.45	Earthen Levee	Encroachments	WS	M En	GA : Garbage	38.207630 ° -121.541699 °	38.207630 ° -121.541699 °	57
DWR ID: DWR_RD0556_01_f_2012_57										
55	3.68	4.16	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.204317 ° -121.541259 °	38.199502 ° -121.545736 °	58
DWR ID: DWR_RD0556_01_f_2012_58										
56	3.87	3.91	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.201907 ° -121.541672 °	38.201603 ° -121.542302 °	55
DWR ID: DWR_RD0556_01_s_2012_55										
57	3.94	4.05	Earthen Levee	Encroachments	WS	M En	BU : Building Inspector Comments: There is a remodeled home on waterward berm. The CVFPB is aware of the structure. A permit has been secured by land owner for the dwelling.	38.201475 ° -121.542832 °	38.200617 ° -121.544530 °	86
DWR ID: DWR_RD0556_01_s_2012_86										

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Georgiana Slough						Right	5.47	10/02/2012 10/02/2012	Herman Phillips	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
58	4.03	4.05	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.200897 ° -121.544350 °	38.200712 ° -121.544601 °	60
								DWR ID: DWR_RD0556_01_f_2012_60		
59	4.03	4.79	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.200897 ° -121.544350 °	38.192662 ° -121.553160 °	59
								DWR ID: DWR_RD0556_01_f_2012_59		
60	5.11	5.26	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Toe damaged rock. 1999 - One pocket filled with gravel. 2000 - Eroding beach with some biotech rolls and stakes; some gravel on slope. 2001 - Staked, low fascine walls at bankline. 2005 - Stone revetment in between pockets. 2006 - New rock on upper slope behind brush boxes at the upstream end, Stone is sliding off the hard toe. 2012: No observed change. [2012 Site ID: GEO_7-0_R]	38.189775 ° -121.557729 °	38.188121 ° -121.559413 °	16 Y
								DWR ID:		

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Unit No. 01 Georgiana Slough	Right	5.47	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	7
Start Levee Mile	0.42
End Levee Mile	0.42
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Waterside RD 556 Unit 1 levee mile 0.42, this tree fell down last year on the waterside slope in 2011. As of fall 2012 it hasn't been removed. Photo taken 10-20-2012.

phillips_f_20121008_365.jpg



Levee Mile Report Line	20
Start Levee Mile	1.55
End Levee Mile	1.57
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The land owner stated that he would have these trees removed from levee section next month (April). Photo taken 3-29-2011. 10-02-2012 The cut up tree has not been removed from waterward levee shoulder.

phillips_f_20120911_235.jpg



Levee Mile Report Line	26
Start Levee Mile	2.32
End Levee Mile	2.32
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at new erosion site levee mile 2.32 landside slope along Unit 1 of RD 556. Photo taken 3-29-2011.

phillips_f_20120911_238.jpg



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**Flood Control Project Maintenance
Levee Inspections**

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Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.47	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	27
Start Levee Mile	2.32
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

RD 556 levee mile 2.35 looking downstream land side shoulder and slope, these figs block visibility of levee section. Photo taken 10-02-2012.

phillips_f_20121008_366.jpg



Levee Mile Report Line	29
Start Levee Mile	2.42
End Levee Mile	2.46
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 556 Unit 1 at levee mile 2.42 looking downstream landward unsatisfactory wild growth. Photo taken 10-02-2012.

phillips_f_20121008_363.jpg



Levee Mile Report Line	48
Start Levee Mile	3.26
End Levee Mile	3.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

RD 556 Unit 1 at levee mile 3.26. Unsatisfactory wild growth blocking visibility of levee section. Photo taken 10-02-2012.

phillips_f_20121008_368.jpg



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**Flood Control Project Maintenance
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.47	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	50
Start Levee Mile	3.26
End Levee Mile	3.91
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of vegetation on the waterward slope.

phillips_f_20121120_409.jpg



Levee Mile Report Line	53
Start Levee Mile	3.44
End Levee Mile	3.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

RD 556 Unit 1, unauthorized discarded concrete pipe on waterside berm. Photo taken 10-02-2012. This pipe should be removed from the levee section.

phillips_f_20121008_367.jpg



Levee Mile Report Line	60
Start Levee Mile	5.11
End Levee Mile	5.26
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_GEO_7-0_R_1.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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.47	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	60
Start Levee Mile	5.11
End Levee Mile	5.26
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_GEO_7-0_R_2.jpg



Levee Mile Report Line	60
Start Levee Mile	5.11
End Levee Mile	5.26
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_GEO_7-0_R_3.jpg

*** 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**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0556 Upper Andrus

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	5.72
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/27/2012 - 04/27/2012		10/02/2012 - 10/02/2012	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mr. DuWain Silva RD 556		Mr. DuWain Silva RD 556	

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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River							Left	5.72	10/02/2012 10/02/2012	Herman Phillips
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.07	0.07	Earthen Levee	Trim / Thin Trees	WS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.239049 ° -121.519520 °	38.239031 ° -121.519524 °	43
								DWR ID: DWR_RD0556_02_f_2012_43		
2	0.09	0.12	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.239017 ° -121.519977 °	38.238948 ° -121.520530 °	44
								DWR ID: DWR_RD0556_02_f_2012_44		
3	0.16	1.72	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.238841 ° -121.521116 °	38.240958 ° -121.549236 °	45
								DWR ID: DWR_RD0556_02_f_2012_45		
4	0.20	0.36	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.238811 ° -121.521936 °	38.238346 ° -121.524867 °	46
								DWR ID: DWR_RD0556_02_f_2012_46		
5	0.31	0.60	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2002 - Two rocked sections (150 ft long) at the downstream end. 2005 - Lots of old brush boxes, some with established vegetation in the area behind the boxes. 2006 - Some small spots fixed with stone. 2009 - Minimal new erosion, rock in the middle of the reach may be new. 2011 - Minor new erosion at the toe. 2012: No observed change. [2012 Site ID: SAC_26-0_L]	38.238784 ° -121.523932 °	38.237862 ° -121.529188 °	19 Y
								DWR ID:		
6	0.59	0.75	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.237652 ° -121.528899 °	38.237657 ° -121.531854 °	47
								DWR ID: DWR_RD0556_02_f_2012_47		
7	0.90	1.38	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.238020 ° -121.534572 °	38.239938 ° -121.543044 °	48
								DWR ID: DWR_RD0556_02_f_2012_48		
8	0.99	5.38	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.238342 ° -121.536118 °	38.193991 ° -121.562238 °	42
								DWR ID: DWR_RD0556_02_f_2012_42		
9	1.03	1.04	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.238524 ° -121.536808 °	38.238566 ° -121.536984 °	24 Y
								DWR ID: DWR_RD0556_02_s_2012_24		
10	1.08	1.16	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Rock is in poor condition and has failed in many places. Scallops in berm with remnants of old rock in the toe area. 2005 - Brush boxes present. 2012: No observed change. [2012 Site ID: SAC_25-2_L]	38.239006 ° -121.537765 °	38.239265 ° -121.538845 °	22 Y
								DWR ID:		
11	1.11	5.72	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.238840 ° -121.538206 °	38.191190 ° -121.567346 °	49
								DWR ID: DWR_RD0556_02_f_2012_49		
12	1.45	1.59	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Slow erosion of the berm at the waterline; bench below water. 2005 - Brush boxes present. 2010 - Minor new erosion. 2012: No observed change. [2012 Site ID: SAC_24-8_L]	38.240401 ° -121.544106 °	38.240772 ° -121.546791 °	23 Y
								DWR ID:		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River							Left	5.72	10/02/2012 10/02/2012	Herman Phillips
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
13	1.45	3.28	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.240196 ° -121.544292 °	38.223070 ° -121.555456 °	50
								DWR ID: DWR_RD0556_02_f_2012_50		
14	1.90	5.69	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.240740 ° -121.552539 °	° °	51
								DWR ID: DWR_RD0556_02_f_2012_51		
15	1.98	2.36	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.240022 ° -121.553700 °	38.236065 ° -121.557990 °	14
								DWR ID: DWR_RD0556_02_s_2012_14		
16	2.10	2.16	Earthen Levee	Encroachments	WS	U Ma	TR : Tree or limb	38.239030 ° -121.555518 °	38.238506 ° -121.556197 °	53 Y
								DWR ID: DWR_RD0556_02_f_2012_53		
17	2.38	2.73	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove wild growth from levee section.	38.235757 ° -121.558142 °	38.231858 ° -121.556660 °	54 Y
								DWR ID: DWR_RD0556_02_f_2012_54		
18	2.69	5.42	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	38.231444 ° -121.556393 °	38.193523 ° -121.562812 °	9
								DWR ID: DWR_RD0556_02_s_2012_9		
19	2.81	3.00	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.229938 ° -121.555556 °	38.227167 ° -121.555216 °	55
								DWR ID: DWR_RD0556_02_f_2012_55		
20	2.92	3.17	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.228326 ° -121.555149 °	38.224729 ° -121.555331 °	13
								DWR ID: DWR_RD0556_02_s_2012_13		
21	2.93	3.05	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Few scallops in berm, some getting close to levee toe. 2005 - Brush boxes present. 2012: More erosion of the toe since last year. [2012 Site ID: SAC_23-3_L]	38.228202 ° -121.555502 °	38.226601 ° -121.555605 °	25 Y
								DWR ID:		
22	3.11	3.18	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.225574 ° -121.555261 °	38.224522 ° -121.555370 °	56
								DWR ID: DWR_RD0556_02_f_2012_56		
23	3.16	3.28	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2000 - Recently fallen cottonwood at the downstream end. 2005 - Empty brush boxes. 2011 - A few trees have fallen since last year. 2012: Potential new tree popout since last year. [2012 Site ID: SAC_23-2_L]	38.224850 ° -121.555641 °	38.223233 ° -121.555687 °	26 Y
								DWR ID:		
24	3.24	3.26	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.223689 ° -121.555370 °	38.223419 ° -121.555404 °	18
								DWR ID: DWR_RD0556_02_s_2012_18		
25	3.40	3.58	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.221170 ° -121.555791 °	38.218765 ° -121.556374 °	57
								DWR ID: DWR_RD0556_02_f_2012_57		

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 02 Sacramento River						Left	5.72	10/02/2012 10/02/2012		Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
26	3.57	3.57	Earthen Levee	Trim / Thin Trees	LS	Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.218922 ° -121.556319 °	38.218921 ° -121.556320 °	17
								DWR ID: DWR_RD0556_02_s_2012_17		
27	3.58	3.63	Supplemental	USACE Erosion Survey	WS	Ma	Inspector Comments: 1997 - Scallops into berm and very close to levee toe. 2005 - Brush boxes present. 2011 - New toe scour and freshly fallen tree. 2012: New tree popout has taken significant portion of soil out of the levee [2012 Site ID: SAC_22-7_L]	38.218951 ° -121.556689 °	38.218104 ° -121.556819 °	27 Y
								DWR ID:		
28	3.64	3.67	Earthen Levee	Trim / Thin Trees	LS	Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.217984 ° -121.556537 °	38.217491 ° -121.556630 °	58
								DWR ID: DWR_RD0556_02_f_2012_58		
29	3.75	5.70	Earthen Levee	Vegetation	LS	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.216407 ° -121.556714 °	38.191875 ° -121.567455 °	6
								DWR ID: DWR_RD0556_02_s_2012_6		
30	3.82	4.13	Earthen Levee	Trim / Thin Trees	LS	Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.215319 ° -121.556842 °	38.210907 ° -121.556738 °	16
								DWR ID: DWR_RD0556_02_s_2012_16		
31	3.95	4.12	Supplemental	USACE Erosion Survey	WS	Ma	Inspector Comments: 2002 - Spot rock along berm, but not in the erosion pockets. 2005 - Some new minor stone revetment at the upstream end. Brush boxes present. 2006 - Currently installing new brush in downstream brush boxes. 2007 - Rock in middle portion for about 150 ft. 2010 - Some attempt at repairs but still has pockets of erosion. 2012: More erosion at the toe. [2012 Site ID: SAC_22-5_L]	38.213581 ° -121.557197 °	38.211112 ° -121.557042 °	28 Y
								DWR ID:		
32	4.12	4.31	Earthen Levee	Trim / Thin Trees	LS	Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.211011 ° -121.556676 °	38.208195 ° -121.556788 °	12
								DWR ID: DWR_RD0556_02_s_2012_12		
33	4.22	4.22	Earthen Levee	Vegetation	WS	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.209642 ° -121.556778 °	38.209642 ° -121.556778 °	35 Y
								DWR ID: DWR_RD0556_02_f_2012_35		
34	4.23	4.26	Earthen Levee	Vegetation	LS	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.209458 ° -121.556759 °	38.208936 ° -121.556763 °	15
								DWR ID: DWR_RD0556_02_s_2012_15		
35	4.23	4.27	Earthen Levee	Vegetation	WS	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.209458 ° -121.556759 °	38.208808 ° -121.556797 °	8
								DWR ID: DWR_RD0556_02_s_2012_8		
36	4.39	4.64	Earthen Levee	Vegetation	LS	En	V6 : Landscaping	38.207202 ° -121.556853 °	38.203693 ° -121.556685 °	40
								DWR ID: DWR_RD0556_02_s_2012_40		
37	4.45	4.49	Earthen Levee	Vegetation	LS	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.206187 ° -121.556816 °	38.205656 ° -121.556802 °	61
								DWR ID: DWR_RD0556_02_f_2012_61		
38	4.59	5.25	Earthen Levee	Encroachments	LS	En	FE : Fence Inspector Comments: This fence has no CVFPB permit.	38.204096 ° -121.556824 °	38.195187 ° -121.560333 °	62 Y
								DWR ID: DWR_RD0556_02_f_2012_62		

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River				Left	5.72	10/02/2012 10/02/2012	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
39	4.63	4.74	Earthen Levee	Encroachments	LS	M En	FE : Fence	38.203727 ° -121.556835 °	38.202218 ° -121.556960 °	7
DWR ID: DWR_RD0556_02_s_2012_7										
40	4.64	4.85	Earthen Levee	Encroachments	LS	M En	FE : Fence	38.203693 ° -121.556683 °	38.200593 ° -121.557208 °	38
DWR ID: DWR_RD0556_02_s_2012_38										
41	4.72	4.90	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove woody growth from levee section landward, visibility is blocked.	38.202286 ° -121.556981 °	38.199854 ° -121.557576 °	63 Y
DWR ID: DWR_RD0556_02_f_2012_63										
42	4.74	4.85	Earthen Levee	Encroachments	WS	M En	FE : Fence	38.202250 ° -121.556892 °	38.200597 ° -121.557203 °	39
DWR ID: DWR_RD0556_02_s_2012_39										
43	4.80	4.92	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.201362 ° -121.557077 °	38.199558 ° -121.557603 °	5
DWR ID: DWR_RD0556_02_s_2012_5										
44	4.80	4.92	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.201362 ° -121.557077 °	38.199558 ° -121.557603 °	37
DWR ID: DWR_RD0556_02_f_2012_37										
45	4.82	4.95	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.200676 ° -121.557136 °	38.199025 ° -121.557923 °	11
DWR ID: DWR_RD0556_02_s_2012_11										
46	4.85	4.88	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1999 - Downstream 140 ft repaired with rock. 2010 - Lots of woody debris, but no changes to site. 2012: No observed change. [2012 Site ID: SAC_21-5_L]	38.200646 ° -121.557606 °	38.200225 ° -121.557749 °	29 Y
DWR ID:										
47	4.93	5.09	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.199282 ° -121.557877 °	38.197278 ° -121.559030 °	64 Y
DWR ID: DWR_RD0556_02_f_2012_64										
48	5.01	5.07	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.198403 ° -121.558263 °	38.197618 ° -121.558800 °	4
DWR ID: DWR_RD0556_02_s_2012_4										
49	5.03	5.21	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.198039 ° -121.558494 °	38.195649 ° -121.560050 °	10
DWR ID: DWR_RD0556_02_s_2012_10										
50	5.09	5.16	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.197453 ° -121.558972 °	38.196493 ° -121.559510 °	33
DWR ID: DWR_RD0556_02_s_2012_33										
51	5.10	5.16	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.197295 ° -121.558982 °	38.196488 ° -121.559465 °	3 Y
DWR ID: DWR_RD0556_02_s_2012_3										
52	5.38	5.67	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.194068 ° -121.562117 °	38.192117 ° -121.566833 °	1
DWR ID: DWR_RD0556_02_s_2012_1										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River					Left	5.72	10/02/2012 10/02/2012	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
53	5.39	5.42	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.193850 ° -121.562362 °	38.193498 ° -121.562868 °	41
DWR ID: DWR_RD0556_02_f_2012_41										
54	5.41	5.44	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.193760 ° -121.562458 °	38.193445 ° -121.562895 °	31
DWR ID: DWR_RD0556_02_s_2012_31										
55	5.42	5.44	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.193708 ° -121.562622 °	38.193445 ° -121.562965 °	2
DWR ID: DWR_RD0556_02_s_2012_2										
56	5.45	5.45	Earthen Levee	Encroachments	WS	M En	TR : Tree or limb	38.193391 ° -121.563159 °	38.193391 ° -121.563159 °	20
DWR ID: DWR_RD0556_02_s_2012_20										
57	5.70	5.70	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.191857 ° -121.567450 °	38.191852 ° -121.567453 °	36
DWR ID: DWR_RD0556_02_f_2012_36										
58	5.72	5.72	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.239096 ° -121.518248 °	38.239096 ° -121.518248 °	21 Y
DWR ID: DWR_RD0556_02_s_2012_21										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	5
Start Levee Mile	0.31
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

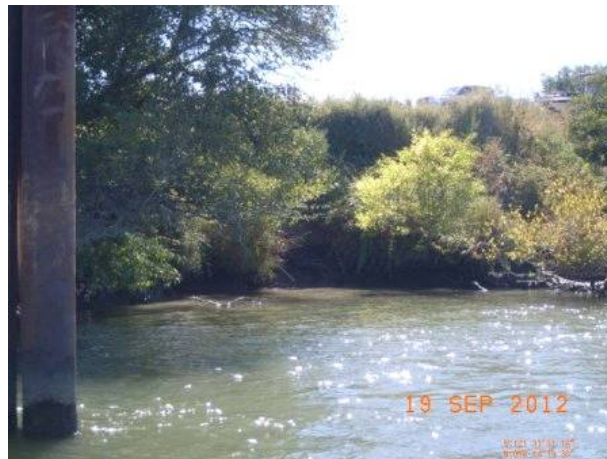
USACE2012_SAC_26-0_L_1.jpg



Levee Mile Report Line	5
Start Levee Mile	0.31
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_26-0_L_2.jpg



Levee Mile Report Line	5
Start Levee Mile	0.31
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_26-0_L_3.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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	5
Start Levee Mile	0.31
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012_SAC_26-0_L_4.jpg



Levee Mile Report Line	9
Start Levee Mile	1.03
End Levee Mile	1.04
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 556, wild growth on the waterside shoulder blocks visibility. Photo taken 10-02-2012.

phillips_f_20121205_454.jpg



Levee Mile Report Line	10
Start Levee Mile	1.08
End Levee Mile	1.16
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_25-2_L_1.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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	10
Start Levee Mile	1.08
End Levee Mile	1.16
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_25-2_L_2.jpg



Levee Mile Report Line	10
Start Levee Mile	1.08
End Levee Mile	1.16
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_25-2_L_3.jpg



Levee Mile Report Line	12
Start Levee Mile	1.45
End Levee Mile	1.59
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_24-8_L_1.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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	12
Start Levee Mile	1.45
End Levee Mile	1.59
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_24-8_L_2.jpg



Levee Mile Report Line	12
Start Levee Mile	1.45
End Levee Mile	1.59
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_24-8_L_3.jpg



Levee Mile Report Line	12
Start Levee Mile	1.45
End Levee Mile	1.59
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012_SAC_24-8_L_4.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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	16
Start Levee Mile	2.10
End Levee Mile	2.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments

RD 556, unauthorized tree planting on waterward toe. Photo taken 10-02-2012.

phillips_f_20121205_455.jpg



Levee Mile Report Line	17
Start Levee Mile	2.38
End Levee Mile	2.73
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 556, bamboo on L/S slopes. Photo taken 10-2-2012.

phillips_f_20121205_447.jpg



Levee Mile Report Line	21
Start Levee Mile	2.93
End Levee Mile	3.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_23-3_L_1.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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

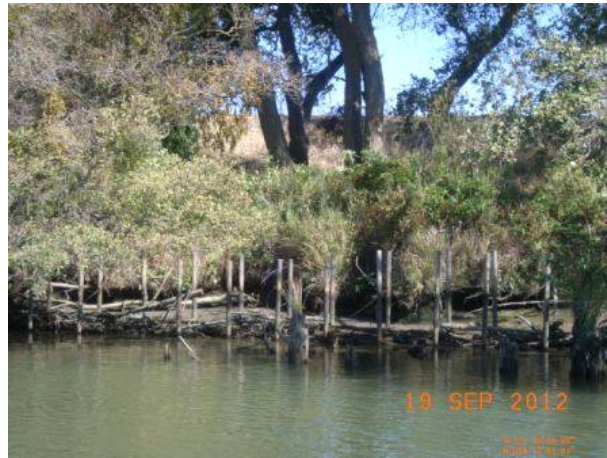
Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	21
Start Levee Mile	2.93
End Levee Mile	3.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_23-3_L_2.jpg



Levee Mile Report Line	21
Start Levee Mile	2.93
End Levee Mile	3.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_23-3_L_3.jpg



Levee Mile Report Line	23
Start Levee Mile	3.16
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_23-2_L_1.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 - Fall 2012

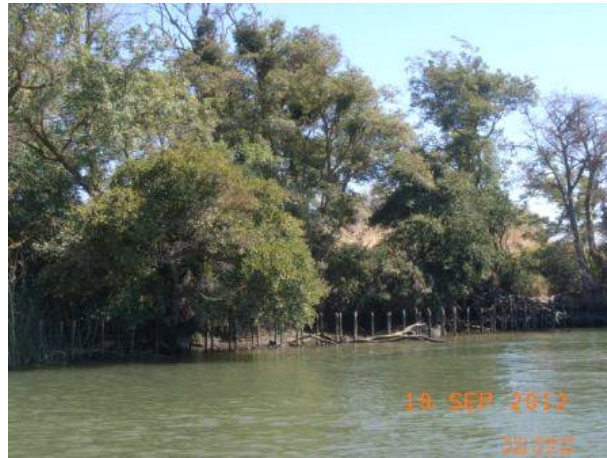
Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	23
Start Levee Mile	3.16
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_23-2_L_2.jpg



Levee Mile Report Line	23
Start Levee Mile	3.16
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_23-2_L_3.jpg



Levee Mile Report Line	27
Start Levee Mile	3.58
End Levee Mile	3.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_22-7_L_1.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 - Fall 2012

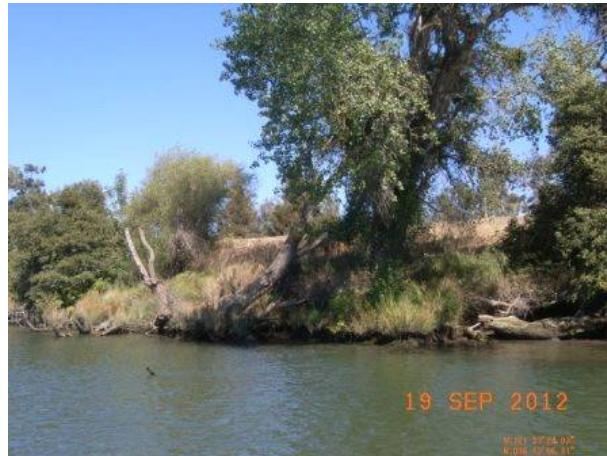
Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	27
Start Levee Mile	3.58
End Levee Mile	3.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_22-7_L_2.jpg



Levee Mile Report Line	27
Start Levee Mile	3.58
End Levee Mile	3.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_22-7_L_3.jpg



Levee Mile Report Line	31
Start Levee Mile	3.95
End Levee Mile	4.12
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_22-5_L_1.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 - Fall 2012

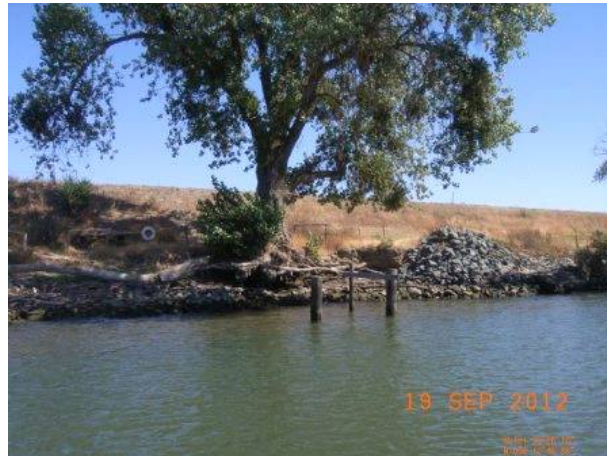
Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	31
Start Levee Mile	3.95
End Levee Mile	4.12
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_22-5_L_2.jpg



Levee Mile Report Line	31
Start Levee Mile	3.95
End Levee Mile	4.12
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_22-5_L_3.jpg



Levee Mile Report Line	31
Start Levee Mile	3.95
End Levee Mile	4.12
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012_SAC_22-5_L_4.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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	33
Start Levee Mile	4.22
End Levee Mile	4.22
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD556, wild growth of bamboo on waterward slope. Unable to see levee section. Photo taken 10-02-2012.

phillips_f_20121205_448.jpg



Levee Mile Report Line	38
Start Levee Mile	4.59
End Levee Mile	5.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments

RD 556, unauthorized fence on L/S shoulder. Photo taken 10-02-2012.

phillips_f_20121205_452.jpg



Levee Mile Report Line	41
Start Levee Mile	4.72
End Levee Mile	4.90
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 556, wild wooded growth on L/S shoulder blocking view of levee. Photo taken 10-02-2012.

phillips_f_20121205_449.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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	46
Start Levee Mile	4.85
End Levee Mile	4.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_21-5_L_1.jpg



Levee Mile Report Line	46
Start Levee Mile	4.85
End Levee Mile	4.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_21-5_L_2.jpg



Levee Mile Report Line	47
Start Levee Mile	4.93
End Levee Mile	5.09
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 556, wild wooded growth on L/S sholder blocking visibility. Photo taken 10-02-2012.

phillips_f_20121205_453.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 - Fall 2012

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2012 10/02/2012	Herman Phillips

Levee Mile Report Line	51
Start Levee Mile	5.10
End Levee Mile	5.16
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 556, unsatisfactory growth on L/S levee shoulder and slope. Photo taken 10-02-2012.

phillips_f_20121205_451.jpg



Levee Mile Report Line	58
Start Levee Mile	5.72
End Levee Mile	5.72
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 556, looking upstream from levee mile 5.72 waterside. Photo taken 10-02-2012.

phillips_f_20121205_450.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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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