

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start		Rating **	M	Issue No.	3
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0556_01_f_2014_3				
Comment Code					
Inspector Comment					
The members in the district have not been flood fight trained recently according to the district manager.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0556_01_s_2012_6				
Comment Code					
Inspector Comment					
Sent electronic copy of O+M manual to LMA.					

No Photos

LM Start		Rating **	M	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0556_01_f_2014_8				
Comment Code					
Inspector Comment					
According to the district manager, when they need supplies they will order them, there are no supplies stored.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	0.08	Rating **	U	Issue No.	21
LM End	0.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.238037°	38.231927°
				-121.518067°	-121.522215°
DWR ID	DWR_RD0556_01_s_2017_21				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Control the wild growth and trim the trees so the slope can be seen.					

Photo 1 of 1 : FA_2018_RD0556_18_21_20180925_00003.jpg



Looking downstream from levee mile 0.09 woody tree growth and wild weeds covering the levee slope and shoulder landside levee section.

LM Start	0.16	Rating **	M	Issue No.	68
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.236835 °	38.227350 °
				-121.518013 °	-121.529040 °
DWR ID	DWR_RD0556_01_f_2018_68				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation on water side slope.					

No Photos

LM Start	0.39	Rating **	M	Issue No.	36
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.234038 °	38.231879 °
				-121.519817 °	-121.522003 °
DWR ID	DWR_RD0556_01_f_2018_36				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 11.8 R					
Status: Eroding New					
2017 Field Notes: Tree popout popouts eminent , significant toe erosion and whole bank failure in sections					
Site History:					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	0.56	Rating **	M	Issue No.	52
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.232132°	38.232132°
				-121.521955°	-121.521955°
DWR ID	DWR_RD0556_01_f_2018_52				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Poison oak.					

Photo 1 of 1 : FA_2018_RD0556_18_52_20181009_00066.jpg



View of poison oak at the top of the water land side slope (October 2018).

LM Start	0.80	Rating **	M	Issue No.	12
LM End	3.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.229459 °	38.208959 °
				-121.524805 °	-121.541368 °
DWR ID	DWR_RD0556_01_s_2012_12				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate rodents and backfill and compact burrows.					

No Photos

LM Start	0.81	Rating **	M	Issue No.	57
LM End	0.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.229362 °	38.229047 °
				-121.524937 °	-121.525422 °
DWR ID	DWR_RD0556_01_f_2018_57				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation from land side slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	1.20	Rating **	M	Issue No.	20
LM End	1.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.227615 °	38.225374 °
				-121.529894 °	-121.534406 °
DWR ID	DWR_RD0556_01_f_2018_20				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 10.9 R					
Status: Eroding New					
2018 Field Notes: Significant toe erosion and whole bank failure in sections, large pockets from tree popouts.					
Site History:					

No Photos

LM Start	1.23	Rating **	M	Issue No.	66
LM End	1.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.227907°	38.227178°
				-121.530507°	-121.532778°
DWR ID	DWR_RD0556_01_f_2018_66				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation on water side slope					

No Photos

LM Start	1.33	Rating **	C	Issue No.	10
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.227598 °	38.225368 °
				-121.532245 °	-121.534677 °
DWR ID	DWR_RD0556_01_f_2015_10				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Thin out and remove the wild tree growth and vegetation on the landside levee slope and shoulder.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	1.43	Rating **	M	Issue No.	58
LM End	1.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.226647 °	38.224950 °
				-121.533405 °	-121.535065 °
DWR ID	DWR_RD0556_01_f_2018_58				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation on land side slope.					

No Photos

LM Start	1.43	Rating **	M	Issue No.	40
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.226537°	38.226537°
				-121.533512°	-121.533512°
DWR ID	DWR_RD0556_01_f_2012_40				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion covered by vegetation.					

Photo 1 of 1 : FA_2018_RD0556_18_40_20181009_00067.jpg



View of erosion that is covered by vegetation on the land side slope (October 2018).

LM Start	1.48	Rating **	M	Issue No.	46
LM End	3.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225953°	38.210659°
				-121.533973°	-121.539176°
DWR ID	DWR_RD0556_01_s_2018_46				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	1.50	Rating **	M	Issue No.	22
LM End	1.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.225840 °	38.225840 °
				-121.534157 °	-121.534150 °
DWR ID	DWR_RD0556_01_s_2012_22				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Dip at the top of the land side slope that is greater than 3".					

Photo 1 of 1 : FA_2018_RD0556_18_22_20181009_00068.jpg



View of dip at the top of the land side slope (October 2018).

LM Start	1.57	Rating **	M	Issue No.	386
LM End	1.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.224995 °	38.224623 °
				-121.535094 °	-121.536320 °
DWR ID	DWR_RD0556_01_f_2013_386				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0556_18_386_20180925_00032.jpg



Remove the wild growth and trim trees from the landside levee slope.

LM Start	1.70	Rating **	U	Issue No.	65
LM End	1.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.224272 °	38.223592 °
				-121.537250 °	-121.542242 °
DWR ID	DWR_RD0556_01_f_2018_65				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove willows 20' from crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	1.72	Rating **	M	Issue No.	60
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.224292 °	38.219385 °
				-121.537653 °	-121.543902 °
DWR ID	DWR_RD0556_01_f_2018_60				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation from land side slope.					

No Photos

LM Start	2.05	Rating **	U	Issue No.	74
LM End	2.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.223418 °	38.220317 °
				-121.543528 °	-121.544172 °
DWR ID	DWR_RD0556_01_f_2018_74				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20' from the crown.					

Photo 1 of 1 : FA_2018_RD0556_18_74_20180925_00031.jpg



RD 556 Unit 1 waterside levee mile 1.74-2.29.

LM Start	2.54	Rating **	M	Issue No.	32
LM End	2.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.216770 °	38.214455 °
				-121.543212 °	-121.539433 °
DWR ID	DWR_RD0556_01_f_2016_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation from the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	2.55	Rating **	U	Issue No.	64
LM End	2.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.216718 °	38.215665 °
				-121.543095 °	-121.541663 °
DWR ID	DWR_RD0556_01_f_2018_64				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20' down the water side slope.					

Photo 1 of 1 : FA_2018_RD0556_18_64_20181009_00073.jpg



View of vegetation on the water side slope (October 2018).

LM Start	2.72	Rating **	U	Issue No.	33
LM End	2.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.215107°	38.215107°
				-121.540677°	-121.540677°
DWR ID	DWR_RD0556_01_s_2017_33				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Fallen tree on landside. Remove the fallen tree and repair the levee damage.					

Photo 1 of 2 : FA_2018_RD0556_18_33_20180925_00017.jpg



RD 556 Unit 1 levee mile 2.72 fallen tree damage to shoulder and slope.

LM Start	2.72	Rating **	U	Issue No.	33 (cont)
LM End	2.72	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD0556_18_33_20180925_00018.jpg



RD 349 Unut 1 levee mile 2.72 the root ball of the fallen tree on slope landward.

* Location LS : Land Side N/A : Not Applicable 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	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	2.73	Rating **	U	Issue No.	48
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.215025 °	38.215025 °
				-121.540623 °	-121.540623 °
DWR ID	DWR_RD0556_01_f_2018_48				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wild grapes					

Photo 1 of 1 : FA_2018_RD0556_18_48_20181009_00070.jpg



View of thick vegetation on the land side slope (October 2018).

LM Start	2.85	Rating **	M	Issue No.	43
LM End	2.98	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.214144 °	38.212577 °
				-121.538692 °	-121.537244 °
DWR ID	DWR_RD0556_01_f_2018_43				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 9.2 R					
Status: Eroding New					
2017 Field Notes: Toe erosion.					
Site History:					
2018: Unable to see due to heavy vegetation.					

No Photos

LM Start	2.96	Rating **	C	Issue No.	63
LM End	2.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.212661 °	38.212328 °
				-121.537633 °	-121.537318 °
DWR ID	DWR_RD0556_01_s_2013_63				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation from the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Reclamation District No. 0556 Upper Andrus

No Photos

Photo 1 of 1 : FA_2018_RD0556_18_35_20180925_00020.jpg



RD 556 Unit 1 levee mile 3.12-3.14 waterside shoulder and slope.

Photo 1 of 1 : FA_2018_RD0556_18_28_20180925_00012.jpg



Significant rodent activity in this area must be stopped. Holes should be backfilled.

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

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Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	3.18	Rating **	M	Issue No.	42
LM End	3.50	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.210674 °	38.206919 °
				-121.538854 °	-121.541559 °
DWR ID	DWR_RD0556_01_f_2018_42				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 9.0 R					
Status: Eroding New					
2017 Field Notes: Toe erosion and failed revetment.					
Site History:					
2018: Unable to see due to heavy vegetation.					

No Photos

LM Start	3.25	Rating **	U	Issue No.	38
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210250 °	38.209842 °
				-121.540207 °	-121.540658 °
DWR ID	DWR_RD0556_01_s_2017_38				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Remove the wild tree growth and vegetation from the landside levee slope and toe so the ground can be seen.					

Photo 1 of 1 : FA_2018_RD0556_18_38_20180925_00021.jpg



556 Unit 1 levee mile 3.25-3.29 woody tree growth and vegetation blocking the view of the levee slope and toe.

LM Start	3.31	Rating **	U	Issue No.	61
LM End	3.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.209553 °	38.202133 °
				-121.540752 °	-121.540957 °
DWR ID	DWR_RD0556_01_f_2018_61				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20' from crown					

Photo 1 of 1 : FA_2018_RD0556_18_61_20181009_00071.jpg



View looking upstream on the water side slope (October 2018).

*** Location**

LS : Land Side N/A : Not Applicable
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

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Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	3.42	Rating **	M	Issue No.	41
LM End	3.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.208113 °	38.202053 °
				-121.541582 °	-121.541135 °
DWR ID	DWR_RD0556_01_s_2017_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth other than annual grasses from the levee slope.					

No Photos

LM Start	3.43	Rating **	A/W	Issue No.	23
LM End	3.75	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.208070 °	38.203400 °
				-121.541700 °	-121.540990 °
DWR ID	DWR_RD0556_01_f_2017_23				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:67					
Site Designation:USACE_CESPK_UPA1_2011_p_0143					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:2/7/2017					
Notes: inactive ditch on landside toe, slope covered in heavy vegetation, minor landside lower slope sloughing observed,					

Photo 1 of 2 : FA_2018_RD0556_18_23_20180925_00004.jpg



* Location LS : Land Side N/A : Not Applicable 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
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	3.43	Rating **	A/W	Issue No.	23 (cont)	
LM End	3.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.208070 °		38.203400 °
				-121.541700 °		-121.540990 °
DWR ID	DWR_RD0556_01_f_2017_23					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:67						
Site Designation:USACE_CESPK_UPA1_2011_p_0143						
Repair Type: Stability						
Rating:Area of Concern						
Field Date:2/7/2017						
Notes: inactive ditch on landside toe, slope covered in heavy vegetation, minor landside lower slope sloughing observed,						

Photo 2 of 2 : FA_2018_RD0556_18_23_20180925_00005.jpg



LM Start	3.98	Rating **	U	Issue No.	39
LM End	5.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.201273 °	38.186464 °
				-121.543328 °	-121.562550 °
DWR ID	DWR_RD0556_01_f_2017_39				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wild growth and arundo from landside slope and toe.					

Photo 1 of 1 : FA_2018_RD0556_18_39_20180925_00022.jpg



Control dense growth of wild vegetation, berry vines and arundo on landside to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	4.04	Rating **	M	Issue No.	59
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.200897 °	38.192662 °
				-121.544350 °	-121.553160 °
DWR ID	DWR_RD0556_01_f_2012_59				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodents and backfill the burrows.					

No Photos

LM Start	4.07	Rating **	U	Issue No.	67
LM End	5.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.200658 °	38.186464 °
				-121.544711 °	-121.562550 °
DWR ID	DWR_RD0556_01_s_2013_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild weed growth and Arundo from the waterside levee section.					

Photo 1 of 1 : FA_2018_RD0556_18_67_20180925_00030.jpg



Looking downstream on the wateside arundo completely blocking view of the slope and shoulder.

LM Start	4.28	Rating **	M	Issue No.	55
LM End	5.48	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.198077 °	38.186479 °
				-121.546806 °	-121.562538 °
DWR ID	DWR_RD0556_01_s_2018_55				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	5.48	10/05/2018 10/05/2018	David Julian

LM Start	5.10	Rating **	U	Issue No.	56
LM End	5.10	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.190157°	38.190157°
				-121.557555°	-121.557555°
DWR ID	DWR_RD0556_01_s_2018_56				
Comment Code					
Inspector Comment					
Gate needs repair or replacement.					

Photo 1 of 1 : FA_2018_RD0556_18_56_20180925_00029.jpg



Repair or replace broken gate.

LM Start	5.12	Rating **	M	Issue No.	37
LM End	5.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.189775°	38.187369°
				-121.557729°	-121.560247°
DWR ID	DWR_RD0556_01_f_2018_37				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 7.0 R					
Status: Eroding					
2017 Field Notes: Site extended downstream. Large erosion pockets and significant toe erosion.					
Site History: 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. 2016 - Fresh erosion observed.					

Photo 1 of 1 : FA_2018_RD0556_18_37_20181023_00008.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start		Rating **	C	Issue No.	21
LM End		Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			°	°
				°	°
DWR ID	DWR_RD0556_02_f_2018_21				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 26.0 L Status: Repaired 2017 Field Notes: Site repaired by USACE in 2016 Site History: 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. 2013 - Minor new erosion. 2015 - Site under construction. 2016 - Site repaired by USACE.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	89
LM End	1.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.238110°	38.239517°
				-121.518178°	-121.541227°
DWR ID	DWR_RD0556_02_f_2018_89				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable 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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Reclamation District No. 0556 Upper Andrus

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	0.00	Rating **	M	Issue No.	82 (cont)
LM End	1.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.200550 °	38.241038 °
				-121.544190 °	-121.551365 °
DWR ID	DWR_RD0556_02_s_2013_82				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20' from water side shoulder.					

Photo 4 of 4 : FA_2018_RD0556_19_82_20180925_00023.jpg



Waterside levee slope and shoulder have been mowed to 20' from

LM Start	0.11	Rating **	M	Issue No.	24
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.238959 °	38.238410 °
				-121.520263 °	-121.524578 °
DWR ID	DWR_RD0556_02_s_2018_24				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.11	Rating **	M	Issue No.	39
LM End	1.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.238961 °	38.238491 °
				-121.520264 °	-121.536710 °
DWR ID	DWR_RD0556_02_s_2018_39				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	0.39	Rating **	A/W	Issue No.	22
LM End	0.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.238292°	38.238292°
				-121.525362°	-121.525362°
DWR ID	DWR_RD0556_02_f_2018_22				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Foot path digging into levee should be monitored					

Photo 1 of 1 : FA_2018_RD0556_19_22_20181003_00061.jpg



View of footpath down the water side slope that is beginning to dig into levee (October 2018).

LM Start	0.44	Rating **	M	Issue No.	40
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.238142°	38.237900°
				-121.526198°	-121.527553°
DWR ID	DWR_RD0556_02_f_2018_40				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.58	Rating **	M	Issue No.	51
LM End	0.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.237712 °	38.238005 °
				-121.528657 °	-121.534400 °
DWR ID	DWR_RD0556_02_f_2018_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	1.00	Rating **	M	Issue No.	62
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.238395°	38.238395°
				-121.536273°	-121.536273°
DWR ID	DWR_RD0556_02_f_2018_62				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.03	Rating **	M	Issue No.	19
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.238772 °	38.239265 °
				-121.536788 °	-121.538845 °
DWR ID	DWR_RD0556_02_f_2018_19				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 25.2 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 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. 2013 - Site extended upstream approximately 300 ft to include new erosion pockets. 2015 - Minor new erosion at toe.					

Photo 1 of 1 : FA_2018_RD0556_19_19_20181023_00081.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	1.19	Rating **	M	Issue No.	42
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.239235°	38.239235°	
			-121.539695°	-121.539695°	
DWR ID	DWR_RD0556_02_s_2018_42				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.29	Rating **	M	Issue No.	65
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.239607°	38.239607°	
			-121.541430°	-121.541430°	
DWR ID	DWR_RD0556_02_f_2018_65				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.38	Rating **	M	Issue No.	66
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.239915°	38.240080°	
			-121.542972°	-121.543942°	
DWR ID	DWR_RD0556_02_f_2018_66				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	1.45	Rating **	M	Issue No.	18
LM End	1.59	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.240401°	38.240772°
				-121.544106°	-121.546791°
DWR ID	DWR_RD0556_02_f_2018_18				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 24.8 L					
Status: Eroding					
2017 Field Notes: Significant lower bank erosion.					
Site History: 1997 - Slow erosion of the berm at the waterline; bench below water. 2005 - Brush boxes present. 2010 - Minor new erosion.					
2013 - There is little to no berm remaining at downstream end of this site. 2016 - New erosion on levee slope.					

Photo 1 of 1 : FA_2018_RD0556_19_18_20181023_00080.jpg



USACE 2013 Photo #1

LM Start	1.50	Rating **	M	Issue No.	88
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.240255 °	38.240832 °
				-121.545255 °	-121.548440 °
DWR ID	DWR_RD0556_02_f_2018_88				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation from land side slope.					

Photo 1 of 1 : FA_2018_RD0556_19_88_20181003_00076.jpg



View looking downstream at vegetation on the land side slope (October 2018).

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	1.64	Rating **	M	Issue No.	67
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.240733 °	38.240972 °
				-121.547738 °	-121.549260 °
DWR ID	DWR_RD0556_02_f_2018_67				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.76	Rating **	M	Issue No.	68
LM End	1.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.241003 °	38.240998 °
				-121.549887 °	-121.550352 °
DWR ID	DWR_RD0556_02_f_2018_68				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.02	Rating **	M	Issue No.	71
LM End	2.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.239768 °	38.230350 °
				-121.554258 °	-121.555772 °
DWR ID	DWR_RD0556_02_f_2018_71				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20' from water side slope.					

Photo 1 of 1 : FA_2018_RD0556_19_71_20181003_00064.jpg



View looking upstream at vegetation on water side slope (October 2018).

* Location LS : Land Side N/A : Not Applicable 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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Reclamation District No. 0556 Upper Andrus

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	2.68	Rating **	M	Issue No.	86
LM End	2.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.231622 °	38.231558 °
				-121.556493 °	-121.556463 °
DWR ID	DWR_RD0556_02_f_2018_86				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.69	Rating **	M	Issue No.	44
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.231494 °	38.231494 °
				-121.556474 °	-121.556474 °
DWR ID	DWR_RD0556_02_s_2018_44				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree.					

No Photos

LM Start	2.78	Rating **	M	Issue No.	45
LM End	2.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.230350 °	38.230350 °
				-121.555772 °	-121.555772 °
DWR ID	DWR_RD0556_02_s_2018_45				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	2.88	Rating **	M	Issue No.	85
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.228885 °	38.223363 °
				-121.555287 °	-121.555420 °
DWR ID	DWR_RD0556_02_f_2018_85				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.90	Rating **	M	Issue No.	76
LM End	5.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.228683 °	38.191822 °
				-121.555352 °	-121.567455 °
DWR ID	DWR_RD0556_02_f_2018_76				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20' from water side slope and patches of arundo.					

Photo 1 of 1 : FA_2018_RD0556_19_76_20181003_00065.jpg



View looking upstream at vegetation on the water side slope (October 2018).

LM Start	3.05	Rating **	M	Issue No.	77
LM End	3.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.226567 °	38.226567 °
				-121.555225 °	-121.555225 °
DWR ID	DWR_RD0556_02_f_2018_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

Reclamation District No. 0556 Upper Andrus

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	3.83	Rating **	M	Issue No.	84
LM End	3.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.215223 °	38.214688 °
				-121.556903 °	-121.556868 °
DWR ID	DWR_RD0556_02_f_2018_84				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.87	Rating **	M	Issue No.	81
LM End	5.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.214688 °	38.198492 °
				-121.556868 °	-121.558230 °
DWR ID	DWR_RD0556_02_f_2018_81				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation on land side slope.					

Photo 1 of 1 : FA_2018_RD0556_19_81_20181003_00071.jpg



View looking slightly downstream at vegetation on the land side slope (October 2018).

* Location
LS : Land Side N/A : Not Applicable
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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	3.95	Rating **	M	Issue No.	15
LM End	4.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.213581°	38.211112°
				-121.557197°	-121.557042°
DWR ID	DWR_RD0556_02_f_2018_15				

Comment Code

Inspector Comment

2017 Site ID: SAC 22.5 L
Status: Eroding
2017 Field Notes: New lower bank erosion at the upstream end. Locals placed rock in some erosion pockets.
Site History: 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 along the toe.

Photo 1 of 1 : FA_2018_RD0556_19_15_20181023_00066.jpg



USACE 2013 Photo #1

LM Start	4.01	Rating **	U	Issue No.	52
LM End	4.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.212662 °	38.207293 °
				-121.556808 °	-121.556837 °
DWR ID	DWR_RD0556_02_s_2018_52				

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove berry vines to allow inspection and access.

Photo 1 of 1 : FA_2018_RD0556_19_52_20180925_00016.jpg



Berry vines on landside should be removed to allow inspection and access.

*** Location**

LS : Land Side N/A : Not Applicable
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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	4.15	Rating **	U	Issue No.	53
LM End	4.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210682 °	38.208001 °
				-121.556779 °	-121.556839 °
DWR ID	DWR_RD0556_02_s_2018_53				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo.					

Photo 1 of 1 : FA_2018_RD0556_19_53_20180925_00017.jpg



Waterside arundo should be removed.

LM Start	4.41	Rating **	M	Issue No.	55
LM End	4.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.206922 °	38.206922 °
				-121.556837 °	-121.556837 °
DWR ID	DWR_RD0556_02_s_2018_55				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.45	Rating **	M	Issue No.	14
LM End	4.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.206377 °	38.205729 °
				-121.557184 °	-121.557108 °
DWR ID	DWR_RD0556_02_f_2018_14				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 21.9 L					
Status: Eroding					
2017 Field Notes: No observed change..					
Site History: 2013 - Erosion pockets encroaching on levee foundation.					

Photo 1 of 1 : FA_2018_RD0556_19_14_20181023_00062.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	4.56	Rating **	N	Issue No.	56
LM End	4.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.204666 °	38.204666 °
				-121.556813 °	-121.556813 °
DWR ID	DWR_RD0556_02_s_2018_56				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Large stumps.					

Photo 1 of 1 : FA_2018_RD0556_19_56_20180925_00019.jpg



Fallen tree on landside should be removed.

LM Start	4.65	Rating **	M	Issue No.	27
LM End	4.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.203425 °	38.203425 °
				-121.556845 °	-121.556845 °
DWR ID	DWR_RD0556_02_s_2017_27				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree.					

Photo 1 of 1 : FA_2018_RD0556_19_27_20181003_00068.jpg



View of fallen tree on the water side slope (October 2018).

LM Start	4.68	Rating **	U	Issue No.	59
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.202896 °	38.202429 °
				-121.556890 °	-121.556962 °
DWR ID	DWR_RD0556_02_s_2018_59				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo.					

Photo 1 of 1 : FA_2018_RD0556_19_59_20180925_00020.jpg



Remove waterside arundo.

*** Location**

LS : Land Side N/A : Not Applicable
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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	4.94	Rating **	M	Issue No.	83
LM End	4.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.199282 °	38.199282 °
				-121.557835 °	-121.557835 °
DWR ID	DWR_RD0556_02_f_2018_83				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.20	Rating **	C	Issue No.	63
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.195938 °	38.195938 °
				-121.559949 °	-121.559949 °
DWR ID	DWR_RD0556_02_s_2018_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree.					

No Photos

LM Start	5.45	Rating **	C	Issue No.	20
LM End	5.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.193391 °	38.193391 °
				-121.563159 °	-121.563159 °
DWR ID	DWR_RD0556_02_s_2012_20				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Cut up the fallen tree and remove it from the waterside levee section.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0556 Upper Andrus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	5.72	10/02/2018 10/02/2018	David Julian

LM Start	5.49	Rating **	M	Issue No.	80
LM End	5.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.193012°	38.192665°
				-121.563762°	-121.564712°
DWR ID	DWR_RD0556_02_f_2018_80				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	5.64	Rating **	U	Issue No.	79
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.192237 °	38.192237 °
				-121.566368 °	-121.566368 °
DWR ID	DWR_RD0556_02_f_2018_79				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Two large burrow holes.					

Photo 1 of 1 : FA_2018_RD0556_19_79_20181003_00069.jpg



View looking upstream at burrow holes on land side slope. More than cubic feet of soil was removed between the two burrow holes (October 2018).

* Location LS : Land Side N/A : Not Applicable 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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