

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

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	0.19		0.19	1.07%	0.56	0.92		
Trim / Thin Trees	0.05	0.01	0.09	0.51%				
Encroachments	0.17		0.17	0.96%	0.45	0.07		
Animal Control	0.01		0.01	0.06%				
Slope Stability	0.10		0.10	0.56%				
Erosion / Bank Caving	0.11	0.01	0.15	0.85%				
<i>Supplemental</i>								
2017 USACE Erosion Survey		0.07	0.28	1.58%				
DRAFT DWR UCIP Field Study					0.28	0.03		
<i>LMA Totals:</i>	0.63	0.09	0.99	5.58% *	1.29	1.02	0.00	0.00

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>								
Encroachments	0.01		0.01	1.93%				
Animal Control	0.01		0.01	1.93%				
<i>Unit Totals:</i>	0.02	0.00	0.02	3.85%	0.00	0.00	0.00	0.00

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	0.09		0.09	1.15%	0.34	0.67		
Trim / Thin Trees	0.03	0.01	0.07	0.90%				
Encroachments	0.06		0.06	0.77%	0.07	0.05		
Slope Stability	0.04		0.04	0.51%				
Erosion / Bank Caving	0.02		0.02	0.26%				
<i>Supplemental</i>								
2017 USACE Erosion Survey		0.07	0.28	3.58%				
DRAFT DWR UCIP Field Study					0.17	0.01		
<i>Unit Totals:</i>	0.24	0.08	0.56	7.17% *	0.58	0.73	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 03 Elk Slough LB		Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0150		M *	9.41						
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	0.10		0.10	1.06%	0.22	0.25			
Trim / Thin Trees	0.02		0.02	0.21%					
Encroachments	0.10		0.10	1.06%	0.38	0.02			
Slope Stability	0.06		0.06	0.64%					
Erosion / Bank Caving	0.09	0.01	0.13	1.38%					
<i>Supplemental</i>									
DRAFT DWR UCIP Field Study					0.11	0.02			
<i>Unit Totals:</i>	0.37	0.01	0.41	4.36% *	0.71	0.29	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2019 Levee Inspection Results**

Reclamation District No. 0150 Merrit Island

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

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles
Unit No. 01 Sutter Slough	Left	0.52

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/12/2019 - 4/12/2019		11/14/2019 - 11/14/2019	
DWR Inspector	Luz Dial		Luz Dial	
Accompanied By	Emily Pappalardo MBK		Emily Pappalardo MBK	

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 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/14/2019 11/14/2019	Luz Dial

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			o	o
				o	o
DWR ID	DWR_RD0150_01_s_2013_4				
Comment Code					
Inspector Comment					
This LMA has the updated O&M manuals for their district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			o	o
				o	o
DWR ID	DWR_RD0150_01_s_2013_5				
Comment Code					
Inspector Comment					
This LMA has adequate amount of flood fighting materials in a centralized location.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			o	o
				o	o
DWR ID	DWR_RD0150_01_s_2013_6				
Comment Code					
Inspector Comment					
The crew of this LMA had flood fighting training from DWR last October 2019.					

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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/14/2019 11/14/2019	Luz Dial

LM Start	0.01	Rating **	C	Issue No.	1
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.332510°	38.332318°	
			-121.583302°	-121.582227°	
DWR ID	DWR_RD0150_01_s_2019_1				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.30	Rating **	M	Issue No.	7
LM End	0.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.330140°	38.330140°	
			-121.579098°	-121.579098°	
DWR ID	DWR_RD0150_01_f_2019_7				
Comment Code					
MA : Material					
Inspector Comment					
There is material stored on the crown and shoulder.					

Photo 1 of 1 : FA_2019_RD0150_15_7_20191121_00003.jpg



View of fill material stored on the crown and shoulder. Fall 2019

LM Start	0.35	Rating **	M	Issue No.	2
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.329552°	38.329552°	
			-121.578522°	-121.578522°	
DWR ID	DWR_RD0150_01_f_2019_2				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Backfill rodent holes with recent activity.					

Photo 1 of 1 : FA_2019_RD0150_15_2_20191121_00002.jpg



View of animal holes on waterside slope. Fall 2019

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/14/2019 11/14/2019	Luz Dial

LM Start	0.46	Rating **	C	Issue No.	9
LM End	0.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.328570°	38.328570°
				-121.577133°	-121.577133°
DWR ID	DWR_RD0150_01_s_2019_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.49	Rating **	C	Issue No.	3
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.328242°	38.328242°
				-121.576573°	-121.576573°
DWR ID	DWR_RD0150_01_f_2018_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes could not be seen during the inspection.					

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**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway		Bank	Unit Miles
Unit No. 02 Sacramento River		Right	7.81
	Spring (March - May)	Summer (June - August)	(September - November) Fall Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *
Date of Inspection	4/12/2019 - 4/18/2019		9/27/2019 - 11/15/2019
DWR Inspector	Luz Dial		Luz Dial
Accompanied By			

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.14	Rating **	U	Issue No.	106
LM End	0.16	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.329782°	38.330058°	
			-121.574820°	-121.574574°	
DWR ID	DWR_RD0150_02_s_2018_106				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landowner needs to maintain vegetation and remove unpermitted fruit trees on levee slope and cactus.					



LM Start	0.14	Rating **	A/W	Issue No.	5
LM End	4.77	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.329782°	38.374641°	
			-121.574769°	-121.524730°	
DWR ID	DWR_RD0150_02_s_2012_5				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					



LM Start	0.16	Rating **	U	Issue No.	49
LM End	0.16	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.330047°	38.330047°	
			-121.574538°	-121.574538°	
DWR ID	DWR_RD0150_02_s_2012_49				
Comment Code					
BU : Building					
Inspector Comment					



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ 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 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.17	Rating **	M	Issue No.	990
LM End	0.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330173°	38.330576°
				-121.574490°	-121.574093°
DWR ID	DWR_RD0150_02_s_2012_990				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Rose bushes and persimmon tree are planted on the levee slope and easement.					

Photo 1 of 1 : FA_2019_RD0150_16_990_20190904_00068.jpg



Landscaping was found on the landside of the levee looking upstream.

LM Start	0.18	Rating **	U	Issue No.	105
LM End	0.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.330339°	38.330500°
				-121.574311°	-121.574138°
DWR ID	DWR_RD0150_02_s_2018_105				
Comment Code					
FE : Fence					
Inspector Comment					
The landowner has installed a fence that is blocking access to the levee.					

Photo 1 of 1 : FA_2019_RD0150_16_105_20190904_00058.jpg



Iron fence was not included under Permit 17359-A; only retaining wall, terraced slope, and steps were approved on landside. Spring 2018

LM Start	0.22	Rating **	C	Issue No.	108
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330670°	38.330818°
				-121.573923°	-121.573793°
DWR ID	DWR_RD0150_02_s_2019_108				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.23	Rating **	M	Issue No.	991
LM End	0.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.330888°	38.330888°
				-121.573769°	-121.573769°
DWR ID	22416				
Comment Code					
Inspector Comment					
DS_ID:22416 FS_ID:42700 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 2.8 feet below the crown. Pump on the landside (LS). Concrete box on the LS. (Thomas Estate). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.23)]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_FA_2019_42700_34247.jpg



WS view: No pipe found on waterside slope. Dense vegetation on waterside.

LM Start	0.23	Rating **	M	Issue No.	991 (cont)
LM End	0.23	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_42700_34246.jpg



LS view: abandoned pipe and pump on landside toe.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.23	Rating **	M	Issue No.	991 (cont)
LM End	0.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.330888°	38.330888°
				-121.573769°	-121.573769°
DWR ID	22416				
Comment Code					
Inspector Comment					
DS_ID:22416 FS_ID:42700 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 2.8 feet below the crown. Pump on the landside (LS). Concrete box on the LS. (Thomas Estate). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.23)]. FS Date: 8/27/2013					

Photo 3 of 3 : UCIP_FA_2019_42700_34245.jpg



LS view: abandoned pipe and concrete box on landside toe.

LM Start	0.25	Rating **	U	Issue No.	4
LM End	0.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331035°	38.331035°
				-121.573502°	-121.573502°
DWR ID	DWR_RD0150_02_s_2012_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove Century and fan palm plants from levee shoulder.					

Photo 1 of 1 : FA_2019_RD0150_16_4_20190904_00001.jpg



Landscaping on landward slope of the levee.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.28	Rating **	C	Issue No.	104
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331457°	38.331834°
				-121.573278°	-121.572933°
DWR ID	DWR_RD0150_02_s_2018_104				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.32	Rating **	C	Issue No.	110
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331947°	38.332085°
				-121.572778°	-121.572635°
DWR ID	DWR_RD0150_02_s_2019_110				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.36	Rating **	C	Issue No.	112
LM End	0.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332425°	38.332425°
				-121.572343°	-121.572343°
DWR ID	DWR_RD0150_02_s_2019_112				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.36	Rating **	M	Issue No.	103
LM End	0.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.332452°	38.332452°	
			-121.572378°	-121.572378°	
DWR ID	DWR_RD0150_02_s_2018_103				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.38	Rating **	M	Issue No.	6
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.332598°	38.332598°	
			-121.572179°	-121.572179°	
DWR ID	DWR_RD0150_02_s_2012_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					



View of slope instability around stairway. Fall 2018

LM Start	0.38	Rating **	M	Issue No.	6 (cont)
LM End	0.38	Issue Type +	Ma	Location *	WS



View of slope instability on the waterside of the levee. Fall 2016

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.38	Rating **	M	Issue No.	13
LM End	0.38	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.332647°	38.332647°
				-121.572140°	-121.572140°
DWR ID	DWR_RD0150_02_s_2012_13				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_13_20190904_00005.jpg



A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream. Spring 2011

LM Start	0.39	Rating **	M	Issue No.	992
LM End	0.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.332670°	38.332670°
				-121.572132°	-121.572132°
DWR ID	22417				
Comment Code					
Inspector Comment					
DS_ID:22417 FS_ID:20268 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe. FIELD_STRUCT_DESC: 4-inch steel irrigation discharge pipe joined to a 6-inch steel irrigation discharge pipe which is in turn joined to a 10-inch steel irrigation discharge pipe through the levee, 5.8 feet below the crown. 1.5-inch electrical conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS levee slope with a 10-inch pipe through the levee authorized under Permit No. 9448, 1974 - William N. Runyon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_FA_2019_20268_34244.jpg



WS view: walkway/stairs, pump on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.46	Rating **	M	Issue No.	993 (cont)
LM End	0.46	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.333527°	38.333527°
				-121.571274°	-121.571274°
DWR ID	22418				
Comment Code					
Inspector Comment					
DS_ID:22418 FS_ID:20267 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Abandoned pipe and pump.- Needs proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe and a 1-inch electrical conduit through the levee, invert elevation 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. Electrical box on the WS slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS with a 6-inch pipe through the levee authorized under Permit No. 9447, 1974 - Reuben A. Gentner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.47)]. FS Date: 8/27/2013					

Photo 3 of 3 : UCIP_FA_2019_20267_34237.jpg



WS view: steel pipe, gate valve, and pump on levee slope. Seems abandoned.

LM Start	0.48	Rating **	M	Issue No.	994
LM End	0.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.333754°	38.333754°
				-121.571018°	-121.571018°
DWR ID	22419				
Comment Code					
Inspector Comment					
DS_ID:22419 FS_ID:20284 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs proper abandonment. FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 5.7 feet below the crown. Power line on the landside (LS). (Retention of an irrigation pumping plant, a centrifugal pump, and an 8-inch steel pipe through the levee with a gate valve at the waterside [WS] end authorized under Permit No. 9446, 1974 - Hanna Olsen). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.49)]. FS Date: 8/27/2013					

Photo 1 of 2 : UCIP_FA_2019_20284_34265.jpg



WS view: abandoned pump on levee slope. Dense vegetation on waterside.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.59	Rating **	M	Issue No.	45
LM End	0.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.334898 °	38.334898 °
				-121.569632 °	-121.569632 °
DWR ID	DWR_RD0150_02_f_2018_45				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					



View of slope damage likely from vehicle traffic. Fall 2018

LM Start	0.60	Rating **	M	Issue No.	114
LM End	0.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.334998 °	38.334998 °
				-121.569468 °	-121.569468 °
DWR ID	DWR_RD0150_02_f_2019_114				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from the levee slope.					



View looking downstream at fallen tree on levee slope. Spring 2019

LM Start	0.63	Rating **	M	Issue No.	115
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.335347 °	38.335347 °
				-121.569152 °	-121.569152 °
DWR ID	DWR_RD0150_02_s_2019_115				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from the levee 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.65	Rating **	M	Issue No.	35
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.335490°	38.335490°	
			-121.568917°	-121.568917°	
DWR ID	DWR_RD0150_02_f_2019_35				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_35_20191121_00121.jpg



View of tire on waterside slope. Fall 2019

LM Start	0.65	Rating **	C	Issue No.	116
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.335575°	38.336475°	
			-121.568893°	-121.568133°	
DWR ID	DWR_RD0150_02_s_2019_116				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.70	Rating **	M	Issue No.	995
LM End	0.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.336183°	38.336183°
				-121.568383°	-121.568383°
DWR ID	22421				
Comment Code					
Inspector Comment					
DS_ID:22421 FS_ID:20303 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16-inch wrapped steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 6.2 feet below the crown. Slant pump on a steel platform on the waterside (WS) slope. 4-inch abandoned pipe on the WS slope. Concrete standpipe and power pole at the landside (LS) toe. (Plans to replace an existing irrigation pipe with a 16-inch wrapped steel pipe through the levee, construct a 3-foot-square concrete anchorage block on the WS slope, and install a 2-inch utility pipe through the levee authorized under Permit No. 18258-Revised, 2007 - Wilson Farms, Inc). [Additional Reference(s): DWR Levee Log, 2005, 14-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 34.71), 14-inch pipe referenced]. FS Date: 8/27/2013					

LM Start	0.70	Rating **	M	Issue No.	995 (cont)
LM End	0.70	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_20303_34287.jpg



WS view: slant pump on steel deck, 4-inch pipe (left) and 10-inch pipe (right) on levee slope.

Photo 2 of 3 : UCIP_FA_2019_20303_34286.jpg



WS view: steel pipes and leaky slant pump on steel deck.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.70	Rating **	M	Issue No.	995 (cont)
LM End	0.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.336183 °	38.336183 °
				-121.568383 °	-121.568383 °
DWR ID	22421				
Comment Code					
Inspector Comment					
<p>DS_ID:22421 FS_ID:20303 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16-inch wrapped steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 6.2 feet below the crown. Slant pump on a steel platform on the waterside (WS) slope. 4-inch abandoned pipe on the WS slope. Concrete standpipe and power pole at the landside (LS) toe. (Plans to replace an existing irrigation pipe with a 16-inch wrapped steel pipe through the levee, construct a 3-foot-square concrete anchorage block on the WS slope, and install a 2-inch utility pipe through the levee authorized under Permit No. 18258-Revised, 2007 - Wilson Farms, Inc). [Additional Reference(s): DWR Levee Log, 2005, 14-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 34.71), 14-inch pipe referenced]. FS Date: 8/27/2013</p>					

Photo 3 of 3 : UCIP_FA_2019_20303_34285.jpg



LS view: 10-inch pipe and air vent on levee slope. Concrete standpipe inside water filtration plant.

LM Start	0.71	Rating **	U	Issue No.	59
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.336291 °	38.336291 °
				-121.568260 °	-121.568260 °
DWR ID	DWR_RD0150_02_s_2016_59				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Remove trees and repair slope damage.					

Photo 1 of 1 : FA_2019_RD0150_16_59_20190904_00038.jpg



View of the tree trunk on the landside of the levee. Fall 2017

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	0.79	Rating **	M	Issue No.	73
LM End	0.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.337307°	38.337307°
				-121.567698°	-121.567698°
DWR ID	DWR_RD0150_02_f_2017_73				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The dead tree needs to be removed from the levee slope.					



View of fallen tree on landside levee slope. Fall 2018

LM Start	0.82	Rating **	C	Issue No.	117
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.337590°	38.338078°
				-121.567038°	-121.566425°
DWR ID	DWR_RD0150_02_s_2019_117				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.96	Rating **	M	Issue No.	102
LM End	0.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.338976°	38.339249°
				-121.565267°	-121.564937°
DWR ID	DWR_RD0150_02_s_2018_102				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trees need to be trimmed to at least 5' above the levee 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	1.31	Rating **	M	Issue No.	41
LM End	1.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342930°	38.343117°
				-121.561223°	-121.561145°
DWR ID	DWR_RD0150_02_f_2019_41				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	1.32	Rating **	C	Issue No.	118
LM End	1.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342957°	38.343113°
				-121.561147°	-121.560992°
DWR ID	DWR_RD0150_02_s_2019_118				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	1.34	Rating **	M	Issue No.	996
LM End	1.34	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.343136°	38.343136°	
			-121.560868°	-121.560868°	
DWR ID	22393				
Comment Code					
Inspector Comment					
DS_ID:22393 FS_ID:20727 EP_NO: 18221 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside.Pumps on piling structure with shed in drainage ditch.Siphon breaker cover missing. Needs to fix it. FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 1 of 2: 30-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, 36-inch pipe referenced, 9 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), 36-inch pipe referenced, invert elevation 9 feet below the crown]. FS Date: 8/27/2013					

LM Start	1.34	Rating **	M	Issue No.	996 (cont)
LM End	1.34	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_20727_34889.jpg



Bird's eye view: outfall pipes (bottom) and pump structure in drainage ditch (top)

Photo 2 of 3 : UCIP_FA_2019_20727_34888.jpg



WS view: siphon breaker in pipe riser on levee shoulder.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	1.34	Rating **	M	Issue No.	996 (cont)
LM End	1.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.343136 °	38.343136 °
				-121.560868 °	-121.560868 °
DWR ID	22393				
Comment Code					
Inspector Comment					
DS_ID:22393 FS_ID:20727 EP_NO: 18221 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside.Pumps on piling structure with shed in drainage ditch.Siphon breaker cover missing. Needs to fix it. FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 1 of 2: 30-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, 36-inch pipe referenced, 9 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), 36-inch pipe referenced, invert elevation 9 feet below the crown]. FS Date: 8/27/2013					

Photo 3 of 3 : UCIP_FA_2019_20727_34887.jpg



WS view: submerged flap gate in the stream.

LM Start	1.45	Rating **	C	Issue No.	119
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.344208 °	38.346142 °
				-121.559190 °	-121.552287 °
DWR ID	DWR_RD0150_02_s_2019_119				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	1.73	Rating **	M	Issue No.	48
LM End	1.73	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.345583°	38.345583°	
			-121.554507°	-121.554507°	
DWR ID	DWR_RD0150_02_f_2014_48				
Comment Code					
PO : Pole					
Inspector Comment					
Remove pipe protruding from WS slope as it's a hazard for maintenance equipment and personnel.					

Photo 1 of 1 : FA_2019_RD0150_16_48_20190904_00022.jpg



A pole/pipe was found on the waterside slope of the levee looking upstream. Fall 2014

LM Start	1.76	Rating **	C	Issue No.	96
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.345787°	38.345787°	
			-121.553900°	-121.553900°	
DWR ID	DWR_RD0150_02_s_2019_96				
Comment Code					
PR : Prunings					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	2.10	Rating **	M	Issue No.	63
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.347002°	38.347002°	
			-121.547803°	-121.547803°	
DWR ID	DWR_RD0150_02_f_2016_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_63_20190904_00041.jpg



Remove the log from the landside slope of the levee.

LM Start	2.11	Rating **	C	Issue No.	93
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.347010°	38.347047°	
			-121.547782°	-121.547432°	
DWR ID	DWR_RD0150_02_s_2019_93				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	2.14	Rating **	M	Issue No.	998 (cont)
LM End	2.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.347032°	38.347032°
				-121.547159°	-121.547159°
DWR ID	22396				
Comment Code					
Inspector Comment					
DS_ID:22396 FS_ID:20731 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Operating during inspection. Leaky joint at the concrete box.- Power overhead crossing. Power pole at waterside shoulder, and landside toe. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Power pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 36.17)]. FS Date: 8/27/2013					

Photo 3 of 3 : UCIP_FA_2019_20731_34903.jpg



LS view: leaky concrete distribution box on levee toe.

LM Start	2.20	Rating **	M	Issue No.	99
LM End	2.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347168°	38.347257°
				-121.545977°	-121.545593°
DWR ID	DWR_RD0150_02_s_2018_99				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove Century plants from the levee shoulder, and thin out bushes.					

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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	2.28	Rating **	M	Issue No.	88
LM End	2.30	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.347355°	38.347361°	
			-121.544628°	-121.544280°	
DWR ID	DWR_RD0150_02_s_2012_88				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_88_20190904_00055.jpg



Unpermitted landscaping was found on the landside slope of the levee. The picture was taken from the crown looking upstream. Spring 2011

LM Start	2.38	Rating **	M	Issue No.	36
LM End	2.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.347477°	38.347477°	
			-121.542680°	-121.542680°	
DWR ID	DWR_RD0150_02_f_2019_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove invasive Arundo growth.					

Photo 1 of 1 : FA_2019_RD0150_16_36_20191121_00122.jpg



View of Arundo growth. Fall 2019

LM Start	2.40	Rating **	M	Issue No.	98
LM End	2.46	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.347581°	38.347811°	
			-121.542334°	-121.541273°	
DWR ID	DWR_RD0150_02_s_2018_98				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trees need to be trimmed to at least 5' above the levee 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	2.56	Rating **	C	Issue No.	92
LM End	2.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.348403°	38.348880°
				-121.539657°	-121.538728°
DWR ID	DWR_RD0150_02_s_2019_92				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	2.72	Rating **	M	Issue No.	70
LM End	2.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.349777°	38.349777°
				-121.537247°	-121.537247°
DWR ID	DWR_RD0150_02_s_2017_70				
Comment Code					
TA : Tank					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_70_20190904_00044.jpg



A tank was found on the landside toe of the levee. Spring 2017

LM Start	2.75	Rating **	C	Issue No.	121
LM End	2.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.350007°	38.350007°
				-121.536947°	-121.536947°
DWR ID	DWR_RD0150_02_s_2019_121				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Monitor footpath.					

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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	2.75	Rating **	N	Issue No.	14
LM End	2.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350041 °	38.350041 °
				-121.536853 °	-121.536853 °
DWR ID	DWR_RD0150_02_s_2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_14_20190904_00006.jpg



View of a tree stump on the landward slope.

LM Start	2.97	Rating **	U	Issue No.	85
LM End	3.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.352372 °	38.352802 °
				-121.534127 °	-121.533638 °
DWR ID	DWR_RD0150_02_s_2012_85				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_85_20190904_00053.jpg



Landscaping providing a screen for a residence on the landside of levee.

LM Start	3.08	Rating **	U	Issue No.	95
LM End	3.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.353541 °	38.353822 °
				-121.532844 °	-121.532574 °
DWR ID	DWR_RD0150_02_s_2018_95				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim trees on the landside slope.					

Photo 1 of 1 : FA_2019_RD0150_16_95_20190904_00057.jpg



Vegetation landside looking southwest. Spring 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.20	Rating **	C	Issue No.	122
LM End	3.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.354895 °	38.355230 °
				-121.531385 °	-121.531055 °
DWR ID	DWR_RD0150_02_s_2019_122				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.24	Rating **	M	Issue No.	961
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site.					

Photo 1 of 1 : FA_2019_RD0150_16_961_20190904_00063.jpg



View of the erosion on the waterside slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	999
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.355360°	38.355360°
				-121.530838°	-121.530838°
DWR ID	22402				
Comment Code					
Inspector Comment					
DS_ID:22402 FS_ID:20736 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Concrete standpipe and concrete distribution box at the landside (LS) toe. (A. Green). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.30)]. FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_FA_2019_20736_34917.jpg



WS view: pipe, conduit and pump on levee slope.

LM Start	3.24	Rating **	M	Issue No.	999 (cont)
LM End	3.24	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_20736_34916.jpg



WS view: steel pipe and GI conduit on levee slope.

* 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**

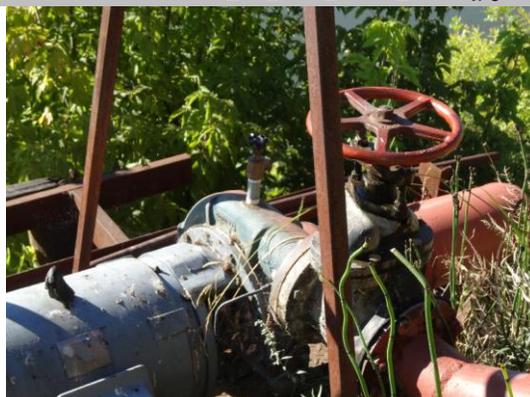
Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	999 (cont)
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.355360 °	38.355360 °
				-121.530838 °	-121.530838 °
DWR ID	22402				
Comment Code					
Inspector Comment					
DS_ID:22402 FS_ID:20736 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Concrete standpipe and concrete distribution box at the landside (LS) toe. (A. Green). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.30)]. FS Date: 8/30/2013					

Photo 3 of 3 : UCIP_FA_2019_20736_34915.jpg



WS view: pipe and pump on levee slope. Gate valve and air vent on the pipe.

LM Start	3.30	Rating **	M	Issue No.	17
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355979 °	38.355979 °
				-121.530288 °	-121.530288 °
DWR ID	DWR_RD0150_02_s_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is partially blocking visibility.					

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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.30	Rating **	C	Issue No.	123
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355987°	38.356037°
				-121.530145°	-121.530065°
DWR ID	DWR_RD0150_02_s_2019_123				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.34	Rating **	C	Issue No.	87
LM End	3.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.356518°	38.356518°
				-121.529715°	-121.529715°
DWR ID	DWR_RD0150_02_s_2019_87				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.34	Rating **	C	Issue No.	89
LM End	3.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.356518°	38.356518°
				-121.529715°	-121.529715°
DWR ID	DWR_RD0150_02_s_2019_89				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from the levee 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.36	Rating **	C	Issue No.	124
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.356702°	38.357737°
				-121.529503°	-121.528188°
DWR ID	DWR_RD0150_02_s_2019_124				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.42	Rating **	A/W	Issue No.	47
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.357183°	38.357631°
				-121.528547°	-121.527981°
DWR ID	LMA-113				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: The flood damage consists of a waterside erosion approximately 229 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No: 287					
Site Designation: LMA-113					
Repair Type: Erosion					
Rating: Serious					
Field Date: 7/17/2017					
Notes: Crown is a paved road. Erosion scarps upto 10 ft deep and within 5 ft of crown. Worse conditions on the DS end. Exposed filter fabric. Serious because of depth of erosion into levee, weak soil, and proximity to crown which is a high traffic public road. 2019 Spring DWR Inspection: Erosion was not visible. Slope appears to be intact to at least 5-10' from levee shoulder.					

Photo 1 of 3 : LEVAL_FA_2019_287_2143.jpg



* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.50	Rating **	M	Issue No.	1000 (cont)
LM End	3.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.358094 °	38.358094 °
				-121.527619 °	-121.527619 °
DWR ID	22403				
Comment Code					
Inspector Comment					
DS_ID:22403 FS_ID:19846 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (R. and J. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.56)]. FS Date: 8/30/2013					

Photo 3 of 3 : UCIP_FA_2019_19846_33725.jpg



LS view: exposed pipe on levee slope and standpipe on the toe.

LM Start	3.51	Rating **	M	Issue No.	1001
LM End	3.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.358131 °	38.358131 °
				-121.527540 °	-121.527540 °
DWR ID	22404				
Comment Code					
Inspector Comment					
DS_ID:22404 FS_ID:19848 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose on the landside (LS) slope. 1-inch steel conduit on the waterside (WS) slope was found. FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_FA_2019_19848_33734.jpg



WS view: abandoned 1-inch conduit on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.51	Rating **	M	Issue No.	1001 (cont)
LM End	3.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.358131 °	38.358131 °
				-121.527540 °	-121.527540 °
DWR ID	22404				
Comment Code					
Inspector Comment					
DS_ID:22404 FS_ID:19848 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose on the landside (LS) slope. 1-inch steel conduit on the waterside (WS) slope was found. FS Date: 8/30/2013					

Photo 2 of 3 : UCIP_FA_2019_19848_33733.jpg



LS view: exposed 4-inch steel pipe on levee slope.

LM Start	3.51	Rating **	M	Issue No.	1001 (cont)
LM End	3.51	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_19848_33732.jpg



LS view: abandoned 4-inch steel pipe on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.54	Rating **	C	Issue No.	125
LM End	3.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.358527°	38.358898°
				-121.527165°	-121.526710°
DWR ID	DWR_RD0150_02_s_2019_125				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.54	Rating **	U	Issue No.	82
LM End	3.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.358530°	38.359749°
				-121.527162°	-121.525245°
DWR ID	DWR_RD0150_02_s_2012_82				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_82_20190904_00051.jpg



Landscaping was blocking the visibility on the landside of the levee looking upstream.

LM Start	3.58	Rating **	C	Issue No.	37
LM End	3.58	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.358942°	38.358942°
				-121.526533°	-121.526533°
DWR ID	DWR_RD0150_02_f_2019_37				
Comment Code					
PR : Prunings					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.68	Rating **	M	Issue No.	84
LM End	3.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.359815°	38.359815°	
			-121.525242°	-121.525242°	
DWR ID	DWR_RD0150_02_s_2019_84				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.84	Rating **	U	Issue No.	80
LM End	3.87	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.361442°	38.361812°	
			-121.523170°	-121.522908°	
DWR ID	DWR_RD0150_02_s_2012_80				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_80_20190904_00050.jpg



Landscaping in front of a residence on landside of levee. The levee in this location is greater than 100' wide.

LM Start	3.88	Rating **	M	Issue No.	33
LM End	3.88	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.361970°	38.361970°	
			-121.522777°	-121.522777°	
DWR ID	DWR_RD0150_02_s_2012_33				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_33_20190904_00010.jpg



A stairway was found on the waterside slope of the levee.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	3.90	Rating **	C	Issue No.	83
LM End	3.90	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.362193°	38.362193°	
			-121.522682°	-121.522682°	
DWR ID	DWR_RD0150_02_s_2019_83				
Comment Code					
TA : Tank					
Inspector Comment					
Tank at toe does not have a permit.					

No Photos

LM Start	4.09	Rating **	M	Issue No.	20
LM End	4.09	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.364948°	38.364948°	
			-121.522339°	-121.522339°	
DWR ID	DWR_RD0150_02_s_2012_20				
Comment Code					
BU : Building					
Inspector Comment					
A three foot retaining wall is located at the landward shoulder.					

Photo 1 of 1 : FA_2019_RD0150_16_20_20190904_00007.jpg



View of a retaining wall on the landward slope looking upstream.

LM Start	4.11	Rating **	M	Issue No.	953
LM End	4.11	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.365267°	38.365267°	
			-121.522379°	-121.522379°	
DWR ID	DWR_RD0150_02_s_2012_953				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus plants are not permitted on levee slopes.					

Photo 1 of 1 : FA_2019_RD0150_16_953_20190904_00062.jpg



View of cacti on the landside of the levee looking from the crown.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	4.17	Rating **	M	Issue No.	1002
LM End	4.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.366149°	38.366149°
				-121.522352°	-121.522352°
DWR ID	22407				
Comment Code					
Inspector Comment					
DS_ID:22407 FS_ID:42702 EP_NO: 13505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker on the WS slope in a corrugated metal pipe (CMP) riser. Control box and electrical conduit on the WS slope. (Plans to replace an existing pipeline with a 14-inch steel pipeline through the levee authorized under Permit No. 13505, 1982 - Gary Pylman). [Additional Reference(s): DWR Levee Log, 2005, 10-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 38.24), 10-inch pipe referenced]. FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_FA_2019_42702_33782.jpg



WS view: slanted pump on levee slope.

LM Start	4.17	Rating **	M	Issue No.	1002 (cont)
LM End	4.17	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_42702_33781.jpg



WS view: exposed 14-inch steel pipe on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	4.27	Rating **	M	Issue No.	107
LM End	4.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.367507°	38.367507°
				-121.522493°	-121.522493°
DWR ID	DWR_RD0150_02_s_2018_107				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree on the waterside slope.					

Photo 1 of 1 : FA_2019_RD0150_16_107_20190904_00060.jpg



View of fallen tree on waterside looking northeast. Spring 2018

LM Start	4.30	Rating **	U	Issue No.	79
LM End	4.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.368036°	38.368200°
				-121.522611°	-121.522667°
DWR ID	DWR_RD0150_02_s_2012_79				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_79_20190904_00049.jpg



Trees are obstructing the views on the landside slope of the levee looking downstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	4.50	Rating **	U	Issue No.	38
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.370928 °	38.371909 °
				-121.523069 °	-121.523316 °
DWR ID	DWR_RD0150_02_s_2019_38				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 38.5 R Status: Critical 2017 Field Notes: New erosion pocket. Vertical section along lower bank, and cracking. Upgraded to critical. Site History: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion.					

Photo 1 of 1 : FA_2019_RD0150_16_38_20190904_00012.jpg



View looking downstream at 2017 USACE Erosion Survey site. Spring 2019

LM Start	4.65	Rating **	C	Issue No.	81
LM End	4.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.372870 °	38.372870 °
				-121.524008 °	-121.524008 °
DWR ID	DWR_RD0150_02_s_2019_81				
Comment Code					
TR : Tree or limb					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	4.67	Rating **	C	Issue No.	78
LM End	4.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.373152°	38.373358°	
			-121.524110°	-121.524172°	
DWR ID	DWR_RD0150_02_s_2019_78				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.69	Rating **	M	Issue No.	28
LM End	4.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.373485°	38.373485°	
			-121.523963°	-121.523963°	
DWR ID	DWR_RD0150_02_s_2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove Century plants from the levee slope.					

Photo 1 of 1 : FA_2019_RD0150_16_28_20190904_00009.jpg



View of century plants on waterward slope.

LM Start	4.70	Rating **	C	Issue No.	76
LM End	4.72	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.373688°	38.373970°	
			-121.524280°	-121.524403°	
DWR ID	DWR_RD0150_02_s_2012_76				
Comment Code					
V6 : Landscaping					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.02	Rating **	C	Issue No.	77
LM End	5.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.378160 °	38.378160 °
				-121.525508 °	-121.525508 °
DWR ID	DWR_RD0150_02_s_2019_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.04	Rating **	A/W	Issue No.	50
LM End	5.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.378311 °	38.379458 °
				-121.525317 °	-121.524931 °
DWR ID	LMA-114				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: The flood damage consists of a waterside erosion approximately 447 feet long on the west (right) bank of the Sacramento River. See attached pages for photos. Site ID No: 288 Site Designation: LMA-114 Repair Type: Erosion Rating: Area of Concern Field Date: 7/17/2017 Notes: Crown is a paved road. Much of site was not accessible because of thorny veg. Scarps were only about 1 ft deep where it was accessible so rated it a lower priority. Irrigation pipe within the site. A boat view would be helpful here. Fall 2018 DWR Inspector: Erosion along bank not visible from levee crown. Spring 2019 DWR Inspector: Slope appears to remain intact for at least 10' that is visible from the levee shoulder (portion without vegetation).</p>					



View of waterside slope with some revetment. Fall 2018

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.10	Rating **	U	Issue No.	75
LM End	5.14	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.379198°	38.379839°	
			-121.525263°	-121.524968°	
DWR ID	DWR_RD0150_02_s_2012_75				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trees have been trimmed and thinned, but bushes still block visibility at levee shoulder.					

Photo 1 of 1 : FA_2019_RD0150_16_75_20190904_00047.jpg



View of landscaping along the landward shoulder and slope looking downstream.

LM Start	5.22	Rating **	C	Issue No.	72
LM End	5.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.380803°	38.380803°	
			-121.524407°	-121.524407°	
DWR ID	DWR_RD0150_02_s_2019_72				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.24	Rating **	M	Issue No.	1003
LM End	5.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.381079°	38.381079°
				-121.524166°	-121.524166°
DWR ID	22410				
Comment Code					
Inspector Comment					
DS_ID:22410 FS_ID:20740 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 3 feet below the crown. Service pole and standpipe at the landside (LS) toe. (C. Sakai). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 39.32)]. FS Date: 8/30/2013					

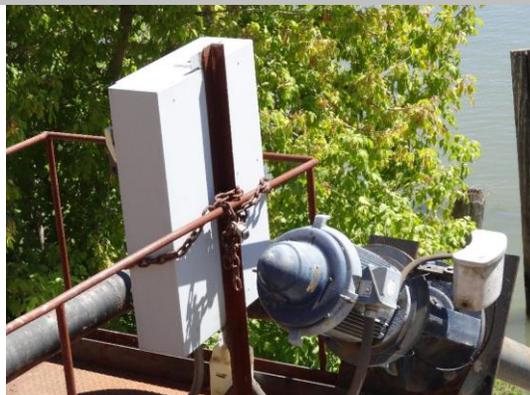
Photo 1 of 3 : UCIP_FA_2019_20740_34941.jpg



WS view: pipe, walkway, slant pump & pump platform on stream bank.

LM Start	5.24	Rating **	M	Issue No.	1003 (cont)
LM End	5.24	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_20740_34940.jpg



WS view: pipe, slant pump & pump platform on stream bank.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.24	Rating **	M	Issue No.	1003 (cont)
LM End	5.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.381079°	38.381079°
				-121.524166°	-121.524166°
DWR ID	22410				
Comment Code					
Inspector Comment					
DS_ID:22410 FS_ID:20740 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 3 feet below the crown. Service pole and standpipe at the landside (LS) toe. (C. Sakai). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 39.32)]. FS Date: 8/30/2013					

Photo 3 of 3 : UCIP_FA_2019_20740_34939.jpg



WS view: steel steps to pump platform, exposed steel pipe, and electric conduit on levee slope.

LM Start	5.29	Rating **	M	Issue No.	109
LM End	5.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381660°	38.381660°
				-121.523726°	-121.523726°
DWR ID	DWR_RD0150_02_s_2018_109				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.33	Rating **	M	Issue No.	54
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.382072°	38.382072°
				-121.523220°	-121.523220°
DWR ID	DWR_RD0150_02_f_2014_54				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_54_20190904_00035.jpg



View of slope instability on the waterside of the levee looking towards the toe. Fall 2014

LM Start	5.40	Rating **	M	Issue No.	74
LM End	5.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.382780°	38.382880°
				-121.522178°	-121.522008°
DWR ID	DWR_RD0150_02_s_2012_74				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landowner needs to thin landscaping.					

Photo 1 of 1 : FA_2019_RD0150_16_74_20190904_00046.jpg



View of dense landscaping on levee slope. Fall 2018

LM Start	5.42	Rating **	C	Issue No.	126
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.382993°	38.382993°
				-121.521810°	-121.521810°
DWR ID	DWR_RD0150_02_s_2019_126				
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	Issue Type 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 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.44	Rating **	M	Issue No.	69
LM End	5.44	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.383108°	38.383108°	
			-121.521668°	-121.521668°	
DWR ID	DWR_RD0150_02_s_2019_69				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Citrus trees are not permitted on levee slope.					

No Photos

LM Start	5.44	Rating **	U	Issue No.	86
LM End	5.44	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.383127°	38.383127°	
			-121.521603°	-121.521603°	
DWR ID	DWR_RD0150_02_s_2018_86				
Comment Code					
FW : Firewood					
Inspector Comment					
Firewood at the landside toe and fruit tree on the levee slope are not permitted and need to be removed.					



LM Start	5.61	Rating **	C	Issue No.	127
LM End	5.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.384575°	38.384917°	
			-121.519055°	-121.518538°	
DWR ID	DWR_RD0150_02_s_2019_127				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.85	Rating **	A/W	Issue No.	51
LM End		Issue Type +	Ob	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.387241 °	°
				-121.516284 °	°
DWR ID	306-135				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:209					
Site Designation:306-135					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes: Fall 2018 DWR Inspector: End LM was not provided. Spring 2019 DWR Inspector: No seepage was visible during this inspection.					

No Photos

LM Start	5.90	Rating **	M	Issue No.	52
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.387915 °	38.387915 °
				-121.516002 °	-121.516002 °
DWR ID	DWR_RD0150_02_f_2016_52				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair erosion due to runoff.					



View of erosion due to runoff. Fall 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	5.90	Rating **	M	Issue No.	52 (cont)
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.387915°	38.387915°	
			-121.516002°	-121.516002°	
DWR ID	DWR_RD0150_02_f_2016_52				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair erosion due to runoff.					

Photo 2 of 2 : FA_2019_RD0150_16_52_20190904_00029.jpg



View of the erosion on the landside of the levee during spring 2017 inspection.

LM Start	5.94	Rating **	C	Issue No.	128
LM End	5.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.388507°	38.388997°	
			-121.515638°	-121.515468°	
DWR ID	DWR_RD0150_02_s_2019_128				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.13	Rating **	M	Issue No.	1004 (cont)
LM End	6.13	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.391099°	38.391099°
				-121.514913°	-121.514913°
DWR ID	22412				
Comment Code					
Inspector Comment					
DS_ID:22412 FS_ID:20748 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe and an electrical conduit through the levee, invert elevation 4.8 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Slope erosion on the LS at the siphon breaker. (Ed Boyles). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.22)]. FS Date: 8/30/2013					

Photo 3 of 3 : UCIP_FA_2019_20748_34965.jpg



LS view: siphon breaker in CMP riser (left) on levee slope and concrete standpipe at levee toe (right).

LM Start	6.13	Rating **	C	Issue No.	27
LM End	6.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391203°	38.391203°
				-121.514972°	-121.514972°
DWR ID	DWR_RD0150_02_s_2019_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.21	Rating **	M	Issue No.	58
LM End	6.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.392252°	38.392252°
				-121.514720°	-121.514720°
DWR ID	DWR_RD0150_02_f_2019_58				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove Arundo growth on the waterside slope.					

No Photos

LM Start	6.32	Rating **	M	Issue No.	29
LM End	6.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393850°	38.393850°
				-121.514629°	-121.514629°
DWR ID	DWR_RD0150_02_s_2012_29				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove Century plants from the levee easement.					

No Photos

LM Start	6.39	Rating **	U	Issue No.	65
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394935°	38.395931°
				-121.514597°	-121.514604°
DWR ID	DWR_RD0150_02_s_2012_65				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Thin out trees for slope visibility.					

Photo 1 of 1 : FA_2019_RD0150_16_65_20190904_00043.jpg



View of landscaping along the landside shoulder and slope looking downstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.42	Rating **	M	Issue No.	34
LM End	6.42	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395340 °	38.395340 °
				-121.514528 °	-121.514528 °
DWR ID	DWR_RD0150_02_s_2012_34				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_34_20190904_00011.jpg



Landscaping was found on the waterside of the levee looking upstream. Fall 2011

LM Start	6.47	Rating **	M	Issue No.	68
LM End	6.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.396078 °	38.396078 °
				-121.514615 °	-121.514615 °
DWR ID	DWR_RD0150_02_s_2019_68				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim grass and bushes within the levee easement.					

No Photos

LM Start	6.48	Rating **	M	Issue No.	42
LM End	6.48	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396235 °	38.396235 °
				-121.514547 °	-121.514547 °
DWR ID	DWR_RD0150_02_s_2012_42				
Comment Code					
ST : Stairway					
Inspector Comment					
An unpermitted stairway is located on the waterside slope.					

Photo 1 of 1 : FA_2019_RD0150_16_42_20190904_00013.jpg



A stairway was found on the waterside slope of the levee looking upstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.50	Rating **	M	Issue No.	1005
LM End	6.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.396449 °	38.396449 °
				-121.514516 °	-121.514516 °
DWR ID	22413				
Comment Code					
Inspector Comment					
DS_ID:22413 FS_ID:50669 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe, 10 feet below the crown. Gate valve on each end, though only one was found on the waterside (WS) in 2013. Pump on the landside (LS), 10 feet from the LS toe, not found in 2013. Riser on the WS slope has been removed as of the 2016 inspection. (C. Godfrey). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.60), referenced as invert elevation 8.5 feet below the crown]. FS Date: 11/9/2016					

Photo 1 of 3 : UCIP_FA_2019_50669_34985.jpg



WS view: an abandoned and dismantled CMP riser on WS levee slope.

LM Start	6.50	Rating **	M	Issue No.	1005 (cont)
LM End	6.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_50669_34984.jpg



WS view: closer view of an abandoned and dismantled CMP riser on WS levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.50	Rating **	M	Issue No.	1005 (cont)
LM End	6.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.396449°	38.396449°
				-121.514516°	-121.514516°
DWR ID	22413				
Comment Code					
Inspector Comment					
DS_ID:22413 FS_ID:50669 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe, 10 feet below the crown. Gate valve on each end, though only one was found on the waterside (WS) in 2013. Pump on the landside (LS), 10 feet from the LS toe, not found in 2013. Riser on the WS slope has been removed as of the 2016 inspection. (C. Godfrey). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.60), referenced as invert elevation 8.5 feet below the crown]. FS Date: 11/9/2016					

Photo 3 of 3 : UCIP_FA_2019_50669_34983.jpg



WS view: an abandoned and dismantled CMP riser with gate valve handle on WS levee slope.

LM Start	6.50	Rating **	U	Issue No.	55
LM End	6.50	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396518°	38.396518°
				-121.514530°	-121.514530°
DWR ID	DWR_RD0150_02_f_2014_55				
Comment Code					
PI : Pipe					
Inspector Comment					
The pipe gate needs to be covered on the waterside toe of the levee. A large hole remains in the slope.					

Photo 1 of 1 : FA_2019_RD0150_16_55_20190904_00036.jpg



An open pipe valve was found without a cover on the waterside toe of the levee. Fall 2014

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.57	Rating **	U	Issue No.	64
LM End	6.61	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.397523°	38.398000°	
			-121.514658°	-121.514731°	
DWR ID	DWR_RD0150_02_s_2012_64				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Thin out landscaping for visibility of slope.					

Photo 1 of 1 : FA_2019_RD0150_16_64_20190904_00042.jpg



Dense landscaping providing a screen for a residence on landside of levee.

LM Start	6.65	Rating **	M	Issue No.	43
LM End	6.68	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.398600°	38.399042°	
			-121.514793°	-121.514841°	
DWR ID	DWR_RD0150_02_s_2012_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Maintain landscaping, and remove century plant on the landside of the levee.					

Photo 1 of 1 : FA_2019_RD0150_16_43_20190904_00014.jpg



Century plants were found on the landside of the levee looking upstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.69	Rating **	M	Issue No.	1007 (cont)
LM End	6.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.399167°	38.399167°
				-121.514793°	-121.514793°
DWR ID	22426				
Comment Code					
Inspector Comment					
DS_ID:22426 FS_ID:41646 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned very old gate valve also found on WS. Rest of pipe should be evaluated due to its age. FIELD_STRUCT_DESC: 9-inch steel irrigation discharge pipe through the levee, invert elevation 9.7 feet below the crown. Gate valve and pump house on the landside (LS). (Retention of an irrigation pumping plant with a centrifugal pump on the LS levee slope with a 9-inch pipe through the levee authorized under Automatic Board Order (ABO) issued as Permit No. 8551, 1973 - Albert Souza). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.79)]. FS Date: 8/30/2013					

Photo 3 of 3 : UCIP_FA_2019_41646_34100.jpg



LS view: concrete masonry distribution box (top), steel pipe, gate valve, air vent, and pump (left) on levee toe.

LM Start	6.72	Rating **	M	Issue No.	31
LM End	6.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.399608°	38.399767°
				-121.514907°	-121.514933°
DWR ID	DWR_RD0150_02_f_2019_31				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	6.76	Rating **	U	Issue No.	60
LM End	7.00	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.400213°	38.403578°	
			-121.514987°	-121.516262°	
DWR ID	DWR_RD0150_02_s_2012_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim and thin trees/bushes. Remove cactus at LM 6.76, 6.80 and 6.86.					

Photo 1 of 1 : FA_2019_RD0150_16_60_20190904_00040.jpg



View of dense landscaping providing a screen for a residence on the landside of levee.

LM Start	7.00	Rating **	U	Issue No.	1008
LM End	7.00	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.403513°	38.403513°	
			-121.516162°	-121.516162°	
DWR ID	22429				
Comment Code					
Inspector Comment					
DS_ID:22429 FS_ID:53333 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/5/2018 Pump in operation at time of inspection. Pipe on WS has significant leak; spilling onto a pile of brush so erosion appears limited, if at all. LS does not appear to have any pipe leaks or levee erosion. Pipe is approximately 85 years and should be internally inspected, and possibly replaced completely, and crossing remains Urgent (DWR UCIP - D. Sanoski). FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump on a concrete slab and a slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe through the levee section is encased in reinforced concrete. Concrete standpipe at the landside (LS) toe. (A. Monice). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 41.10), referenced as invert elevation 8.2 feet below the crown]. FS Date: 6/5/2018 1:46:00 PM					

Photo 1 of 3 : UCIP_FA_2019_53333_34162.jpg



WS view: CMP riser with slide gate and pump (right) on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	7.00	Rating **	U	Issue No.	1008 (cont)
LM End	7.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.403513°	38.403513°
				-121.516162°	-121.516162°
DWR ID	22429				
Comment Code					
Inspector Comment					
<p>DS_ID:22429 FS_ID:53333 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/5/2018 Pump in operation at time of inspection. Pipe on WS has significant leak; spilling onto a pile of brush so erosion appears limited, if at all. LS does not appear to have any pipe leaks or levee erosion. Pipe is approximately 85 years and should be internally inspected, and possibly replaced completely, and crossing remains Urgent (DWR UCIP - D. Sanoski). FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump on a concrete slab and a slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe through the levee section is encased in reinforced concrete. Concrete standpipe at the landside (LS) toe. (A. Monice). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 41.10), referenced as invert elevation 8.2 feet below the crown]. FS Date: 6/5/2018 1:46:00 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_53333_34161.jpg



WS view: steel intake pipe and pump on levee slope. Dense vegetation on levee slope.

LM Start	7.00	Rating **	U	Issue No.	1008 (cont)
LM End	7.00	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_53333_34160.jpg



WS view: pump on levee slope. Dense vegetation on levee slope.

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	7.25	Rating **	M	Issue No.	62
LM End	7.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406920 °	38.407604 °
				-121.517945 °	-121.518332 °
DWR ID	DWR_RD0150_02_s_2018_62				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	7.30	Rating **	M	Issue No.	30
LM End	7.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.407625 °	38.407868 °
				-121.518375 °	-121.518502 °
DWR ID	DWR_RD0150_02_f_2019_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	7.32	Rating **	M	Issue No.	44
LM End	7.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.407842 °	38.408168 °
				-121.518425 °	-121.518663 °
DWR ID	DWR_RD0150_02_s_2019_44				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	7.41	Rating **	C	Issue No.	39
LM End	7.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.408965°	38.413267°
				-121.519198°	-121.522400°
DWR ID	DWR_RD0150_02_s_2019_39				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.66	Rating **	C	Issue No.	57
LM End	7.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.412177°	38.412312°
				-121.521400°	-121.521525°
DWR ID	DWR_RD0150_02_s_2019_57				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	7.76	Rating **	C	Issue No.	61
LM End	7.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413345°	38.413493°
				-121.522393°	-121.522498°
DWR ID	DWR_RD0150_02_s_2019_61				
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	09/27/2019 11/15/2019	Luz Dial

LM Start	7.79	Rating **	M	Issue No.	56
LM End	7.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413705°	38.413705°
				-121.522806°	-121.522806°
DWR ID	DWR_RD0150_02_s_2012_56				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_16_56_20190904_00037.jpg



Landscaping on landside of levee

LM Start	7.80	Rating **	C	Issue No.	67
LM End	7.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413920°	38.413987°
				-121.522853°	-121.522922°
DWR ID	DWR_RD0150_02_s_2019_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles
Unit No. 03 Elk Slough	Left	9.41

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	4/12/2019 - 4/12/2019		11/14/2019 - 11/14/2019	
DWR Inspector	Luz Dial		Luz Dial	
Accompanied By	Emily Pappalardo MBK		Emily Pappalardo MBK	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	0.00	Rating **	C	Issue No.	198
LM End	0.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332653°	38.332653°
				-121.583518°	-121.583518°
DWR ID	DWR_RD0150_03_s_2019_198				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	0.01	Rating **	A/W	Issue No.	20
LM End	7.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.332735°	38.413893°
				-121.583625°	-121.522896°
DWR ID	DWR_RD0150_03_s_2019_20				
Comment Code					
Inspector Comment					
2017 Site ID: ELK 0.2 L Status: Eroding 2017 Field Notes: Dresh erosion; site continues to worsen. Site History: 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed.					

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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	0.06	Rating **	C	Issue No.	195
LM End	0.13	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.333505°	38.334442°
				-121.583550°	-121.583343°
DWR ID	DWR_RD0150_03_s_2019_195				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Remove tall weeds from crown.					

No Photos

LM Start	0.11	Rating **	M	Issue No.	936
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334233°	38.334233°
				-121.583414°	-121.583414°
DWR ID	DWR_RD0150_03_s_2012_936				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.17	Rating **	C	Issue No.	194
LM End	0.24	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334990°	38.335953°
				-121.583098°	-121.582518°
DWR ID	DWR_RD0150_03_s_2019_194				
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	0.39	Rating **	M	Issue No.	951 (cont)
LM End	0.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.337928 °	38.337928 °
				-121.581496 °	-121.581496 °
DWR ID	22453				
Comment Code					
Inspector Comment					
DS_ID:22453 FS_ID:42694 EP_NO: 13612 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned. Proper abandon needs. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel gravity irrigation pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Runyon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013					

Photo 3 of 3 : UCIP_FA_2019_42694_32003.jpg



WS view: abandoned pipe, gate valve, and pump on levee slope.

LM Start	0.40	Rating **	M	Issue No.	952
LM End	0.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.338131 °	38.338131 °
				-121.581434 °	-121.581434 °
DWR ID	22454				
Comment Code					
Inspector Comment					
DS_ID:22454 FS_ID:42693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems to be abandoned. Service pole on LS slope. 1" conduit through levee. May need proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Gentner). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP_FA_2019_42693_31979.jpg



LS view: service pole on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	0.40	Rating **	M	Issue No.	952 (cont)
LM End	0.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.338131 °	38.338131 °
				-121.581434 °	-121.581434 °
DWR ID	22454				
Comment Code					
Inspector Comment					
DS_ID:22454 FS_ID:42693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems to be abandoned. Service pole on LS slope. 1" conduit through levee. May need proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Gentner). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013					

Photo 2 of 3 : UCIP_FA_2019_42693_31978.jpg



LS view: no pipe on levee slope.

LM Start	0.40	Rating **	M	Issue No.	952 (cont)
LM End	0.40	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_42693_31977.jpg



WS view: pipe and pump on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	0.76	Rating **	C	Issue No.	188
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.343228°	38.344855°
				-121.580370°	-121.580023°
DWR ID	DWR_RD0150_03_s_2019_188				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.92	Rating **	C	Issue No.	5
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345493°	38.345493°
				-121.579682°	-121.579682°
DWR ID	DWR_RD0150_03_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Maintain visibility of levee slopes.					

No Photos

LM Start	1.18	Rating **	C	Issue No.	187
LM End	1.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347605°	38.347468°
				-121.576525°	-121.574707°
DWR ID	DWR_RD0150_03_s_2019_187				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo from levee 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	1.33	Rating **	M	Issue No.	19
LM End	1.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.347405°	38.347405°
				-121.573657°	-121.573657°
DWR ID	DWR_RD0150_03_f_2019_19				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	1.35	Rating **	M	Issue No.	953
LM End	1.35	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.347489°	38.347489°
				-121.573302°	-121.573302°
DWR ID	22433				
Comment Code					
Inspector Comment					
DS_ID:22433 FS_ID:19112 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No handrail on wooden walkway. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 8 feet below the crown. Pump in a pump house on the waterside (WS) slope. Service pole and steel distribution box on the landside (LS) slope. (A. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.39)]. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP_FA_2019_19112_32044.jpg



WS view: pipe on levee slope and pump house in channel.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	1.35	Rating **	M	Issue No.	953 (cont)
LM End	1.35	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.347489°	38.347489°
				-121.573302°	-121.573302°
DWR ID	22433				
Comment Code					
Inspector Comment					
DS_ID:22433 FS_ID:19112 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No handrail on wooden walkway. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 8 feet below the crown. Pump in a pump house on the waterside (WS) slope. Service pole and steel distribution box on the landside (LS) slope. (A. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.39)]. FS Date: 8/20/2013					

Photo 2 of 3 : UCIP_FA_2019_19112_32043.jpg



WS view: concrete headwall and exposed pipe on levee slope.

LM Start	1.35	Rating **	M	Issue No.	953 (cont)
LM End	1.35	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_19112_32042.jpg



WS view: pipe, wooden walkway and pump house in channel.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	1.37	Rating **	C	Issue No.	186
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.347578°	38.347832°	
			-121.573032°	-121.572553°	
DWR ID	DWR_RD0150_03_s_2019_186				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo on waterside slope.					

No Photos

LM Start	1.55	Rating **	A/W	Issue No.	34
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.349949°		
			-121.572659°		
DWR ID	386-93				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:211					
Site Designation:386-93					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes: 2019 Spring DWR Inspection: Seepage was not visible during inspection.					

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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	1.57	Rating **	C	Issue No.	183
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350228°	38.350228°
				-121.572758°	-121.572758°
DWR ID	DWR_RD0150_03_s_2019_183				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.78	Rating **	M	Issue No.	954
LM End	1.78	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.353180°	38.353180°
				-121.572907°	-121.572907°
DWR ID	22434				
Comment Code					
Inspector Comment					
DS_ID:22434 FS_ID:19137 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.4 feet below the crown. Pump, gate valve, and service pole on the waterside (WS) slope. (W. Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.82), 7-inch pipe referenced]. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP_FA_2019_19137_32108.jpg



WS view: exposed pipe and power pole on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	1.78	Rating **	M	Issue No.	954 (cont)
LM End	1.78	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.353180°	38.353180°
				-121.572907°	-121.572907°
DWR ID	22434				
Comment Code					
Inspector Comment					
DS_ID:22434 FS_ID:19137 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.4 feet below the crown. Pump, gate valve, and service pole on the waterside (WS) slope. (W. Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.82), 7-inch pipe referenced]. FS Date: 8/20/2013					

Photo 2 of 3 : UCIP_FA_2019_19137_32107.jpg



WS view: exposed pipe on levee slope.

LM Start	1.78	Rating **	M	Issue No.	954 (cont)
LM End	1.78	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_19137_32106.jpg



WS view: pipe and slant pump on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	1.78	Rating **	M	Issue No.	50
LM End	1.78	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.353249°	38.353249°	
			-121.572848°	-121.572848°	
DWR ID	DWR_RD0150_03_s_2012_50				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs are dug next to the pipe.					

Photo 1 of 1 : FA_2019_RD0150_17_50_20190904_00031.jpg



Steps were dug next to the pipe, and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream.

LM Start	1.83	Rating **	M	Issue No.	85
LM End	1.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.353761°	38.353761°	
			-121.572390°	-121.572390°	
DWR ID	DWR_RD0150_03_s_2016_85				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The LMA cut part of the fallen tree, but a part remains on the levee slope easement.					

Photo 1 of 1 : FA_2019_RD0150_17_85_20190904_00066.jpg



View of broken tree trunk on the waterside slope of the levee. Spring 2016

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	2.31	Rating **	C	Issue No.	178
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.354258°	38.354630°
				-121.564570°	-121.563958°
DWR ID	DWR_RD0150_03_s_2019_178				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	2.44	Rating **	C	Issue No.	177
LM End	2.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355520°	38.355520°
				-121.562727°	-121.562727°
DWR ID	DWR_RD0150_03_s_2019_177				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	2.62	Rating **	C	Issue No.	17
LM End	2.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.357863°	38.358545°
				-121.561340°	-121.561292°
DWR ID	DWR_RD0150_03_s_2019_17				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
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**

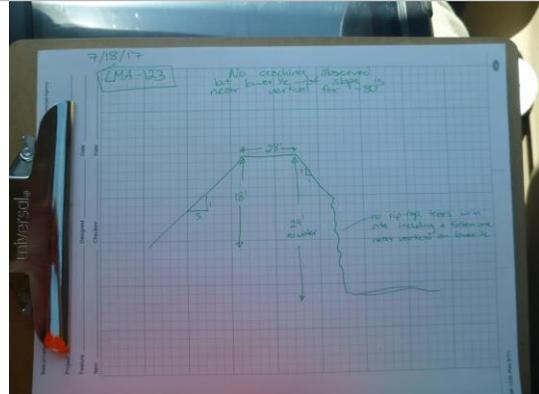
Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	2.72	Rating **	A/W	Issue No.	42 (cont)
LM End	2.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359256°	38.359461°
				-121.561239°	-121.561275°
DWR ID	LMA-123				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 75 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos Site ID No: 297 Site Designation: LMA-123 Repair Type: Stability Rating: Area of Concern Field Date: 7/18/2017 Notes: Crown is a paved road. 20 ft of cracking observed maximum within the site, but lower 1/4 of slope is near vertical. Lower priority because it is not too much worse than the surrounding levees.</p>					

Photo 3 of 3 : LEVAL_FA_2019_297_1933.jpg



LM Start	2.74	Rating **	A/W	Issue No.	45
LM End	2.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359594°	38.359808°
				-121.561308°	-121.561369°
DWR ID	LMA-124				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos. Site ID No: 298 Site Designation: LMA-124 Repair Type: Stability Rating: Area of Concern Field Date: 7/18/2017 Notes: No cracking observed, but there is runoff erosion along the entire WS slope here. Crown is a paved road. Area of concern because erosion was caused by runoff and was less severe than other sites along Elk Slough.</p>					

Photo 1 of 3 : LEVAL_FA_2019_298_1924.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	2.75	Rating **	A/W	Issue No.	62
LM End	2.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.359693°	38.359693°	
			-121.561354°	-121.561354°	
DWR ID	DWR_RD0150_03_s_2017_62				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion is caused from run-off due to rain.					

Photo 1 of 1 : FA_2019_RD0150_17_62_20190904_00046.jpg



View of erosion on the waterside slope of the levee looking downstream. Spring 2017

LM Start	2.78	Rating **	M	Issue No.	25
LM End	2.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.360035°	38.360035°	
			-121.561482°	-121.561482°	
DWR ID	DWR_RD0150_03_f_2019_25				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There is a tree on the slope.					

Photo 1 of 1 : FA_2019_RD0150_17_25_20191121_00162.jpg



View of a downed tree on the WS slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	2.86	Rating **	C	Issue No.	176
LM End	2.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.361213°	38.362347°
				-121.562067°	-121.562305°
DWR ID	DWR_RD0150_03_s_2019_176				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	2.95	Rating **	C	Issue No.	86
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362431°	38.362431°
				-121.562265°	-121.562265°
DWR ID	DWR_RD0150_03_s_2018_86				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree on waterside slope.					

No Photos

LM Start	2.98	Rating **	C	Issue No.	175
LM End	2.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.362840°	38.362840°
				-121.562225°	-121.562225°
DWR ID	DWR_RD0150_03_s_2019_175				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.00	Rating **	C	Issue No.	174
LM End	3.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.363183°	38.363887°
				-121.562060°	-121.560690°
DWR ID	DWR_RD0150_03_s_2019_174				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.10	Rating **	C	Issue No.	173
LM End	3.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.363857°	38.363857°
				-121.560493°	-121.560493°
DWR ID	DWR_RD0150_03_s_2019_173				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.21	Rating **	C	Issue No.	27
LM End	3.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.363330°	38.363330°
				-121.558590°	-121.558590°
DWR ID	DWR_RD0150_03_s_2019_27				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.28	Rating **	M	Issue No.	113
LM End	3.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362992°	38.362992°
				-121.557275°	-121.557275°
DWR ID	DWR_RD0150_03_f_2013_113				
Comment Code					
PO : Pole					
Inspector Comment					
Pole on LS slope does not appear to be permitted by CVFPB and should be removed.					



View of unauthorized pole on the LS slope.

LM Start	3.31	Rating **	M	Issue No.	40
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363008°	38.363008°
				-121.556751°	-121.556751°
DWR ID	DWR_RD0150_03_s_2013_40				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					



View of erosion on the waterside of the levee during spring 2015 inspection.

LM Start	3.31	Rating **	M	Issue No.	40 (cont)
LM End	3.31	Issue Type +	Ma	Location *	WS



View of erosion on the waterside of the levee looking upstream during fall 2014 inspection.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.36	Rating **	M	Issue No.	102
LM End	3.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.363254 °	38.363254 °	
			-121.555889 °	-121.555889 °	
DWR ID	DWR_RD0150_03_s_2018_102				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

LM Start	3.37	Rating **	A/W	Issue No.	76
LM End	3.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Riprap Revetments		38.363380 °	38.364325 °	
			-121.555715 °	-121.555330 °	
DWR ID	DWR_RD0150_03_s_2017_76				
Comment Code					
Inspector Comment					
Riprap remains intact.					

Photo 1 of 1 : FA_2019_RD0150_17_76_20190904_00060.jpg



View of the new riprap on the waterside slope of the levee looking downstream. Spring 2017

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.39	Rating **	U	Issue No.	955
LM End	3.39	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.363520 °	38.363520 °	
			-121.555571 °	-121.555571 °	
DWR ID	22439				
Comment Code					
Inspector Comment					
<p>DS_ID:22439 FS_ID:53334 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018 Same as last inspection; LS erosion looks the same if not slightly worse, so the crossing remains Urgent (DWR UCIP - D. Sanoski)03/30/2017 Riprap laid around pipe on WS slope. Source of erosion has not been addressed, nor has LS toe been repaired. Update and photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Sprint 2017 Inspections. (K. Fazel - UCIP) 11/10/2016 Erosion at LS toe has progressed since last inspection and is now severe. Photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Fall 2016 Inspections. Crossing has been upgraded from Non-Urgent to Urgent. (K. Fazel - UCIP)08/20/2013 Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 3.7 feet below the crown. Service pole on the waterside (WS) slope. Pump on a piling structure in the stream. Concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 3.45)]. FS Date: 6/5/2018 3:29:00 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_53334_35013.jpg



WS view: exposed pipe, walkway, service pole on levee slope and pump support in channel.

LM Start	3.39	Rating **	U	Issue No.	955 (cont)
LM End	3.39	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_53334_35012.jpg



WS view: steel pipe & pump, walkway, pump support in the channel.

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.39	Rating **	U	Issue No.	955 (cont)
LM End	3.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.363520 °	38.363520 °
				-121.555571 °	-121.555571 °
DWR ID	22439				
Comment Code					
Inspector Comment					
DS_ID:22439 FS_ID:53334 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018 Same as last inspection; LS erosion looks the same if not slightly worse, so the crossing remains Urgent (DWR UCIP - D. Sanoski)03/30/2017 Riprap laid around pipe on WS slope. Source of erosion has not been addressed, nor has LS toe been repaired. Update and photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Sprint 2017 Inspections. (K. Fazel - UCIP) 11/10/2016 Erosion at LS toe has progressed since last inspection and is now severe. Photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Fall 2016 Inspections. Crossing has been upgraded from Non-Urgent to Urgent. (K. Fazel - UCIP)08/20/2013 Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 3.7 feet below the crown. Service pole on the waterside (WS) slope. Pump on a piling structure in the stream. Concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 3.45)]. FS Date: 6/5/2018 3:29:00 PM					

Photo 3 of 3 : UCIP_FA_2019_53334_35011.jpg



LS view: exposed pipe on levee slope.

LM Start	3.39	Rating **	U	Issue No.	115
LM End	3.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363540 °	38.363540 °
				-121.555554 °	-121.555554 °
DWR ID	DWR_RD0150_03_f_2013_115				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair erosion (ditch) found on the landside toe of the levee.					

Photo 1 of 3 : FA_2019_RD0150_17_115_20190904_00094.jpg



View of the ditch on the landside toe of the levee. Fall 2016

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.39	Rating **	U	Issue No.	115 (cont)
LM End	3.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363540°	38.363540°
				-121.555554°	-121.555554°
DWR ID	DWR_RD0150_03_f_2013_115				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair erosion (ditch) found on the landside toe of the levee.					

Photo 2 of 3 : FA_2019_RD0150_17_115_20190904_00095.jpg



View of the ditch on the landside toe of the levee during fall 2015 inspection.

LM Start	3.39	Rating **	U	Issue No.	115 (cont)
LM End	3.39	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2019_RD0150_17_115_20190904_00096.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.58	Rating **	C	Issue No.	171
LM End	3.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.366193°	38.366790°
				-121.555752°	-121.555703°
DWR ID	DWR_RD0150_03_s_2019_171				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.66	Rating **	M	Issue No.	956
LM End	3.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.367213°	38.367213°
				-121.555273°	-121.555273°
DWR ID	22440				
Comment Code					
Inspector Comment					
DS_ID:22440 FS_ID:50202 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/07/2016: Unable to locate evidence of major depression of WS slope. Only slight depression on WS slope above pump. Though this is an up-and-over pipe, no positive closure device found. Inlet in LS standpipe is capped with a board. If no longer in use, needs to be abandoned properly. Siphon breaker/vent on WS needs a cover. Wave-wash run-up along river bank characteristic of much of Elk Slough. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)08/20/2013:Levee damage.Gate valve on WS not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5.9 feet below the crown. Slant pump on the waterside (WS) slope. Vent/siphon breaker at the apex of the pipe on the WS. Concrete platform lies next to the pump on the WS. Concrete standpipe and service pole with meter at the landside (LS) toe. Property owner is Ken Pylman at (916) 775-1066. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 3.73)]. FS Date: 7/7/2016					

Photo 1 of 3 : UCIP_FA_2019_50202_35018.jpg



WS view: steel pipe and pump on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.66	Rating **	M	Issue No.	956 (cont)
LM End	3.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.367213°	38.367213°
				-121.555273°	-121.555273°
DWR ID	22440				
Comment Code					
Inspector Comment					
DS_ID:22440 FS_ID:50202 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/07/2016: Unable to locate evidence of major depression of WS slope. Only slight depression on WS slope above pump. Though this is an up-and-over pipe, no positive closure device found. Inlet in LS standpipe is capped with a board. If no longer in use, needs to be abandoned properly. Siphon breaker/vent on WS needs a cover. Wave-wash run-up along river bank characteristic of much of Elk Slough. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)08/20/2013:Levee damage.Gate valve on WS not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5.9 feet below the crown. Slant pump on the waterside (WS) slope. Vent/siphon breaker at the apex of the pipe on the WS. Concrete platform lies next to the pump on the WS. Concrete standpipe and service pole with meter at the landside (LS) toe. Property owner is Ken Pylman at (916) 775-1066. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 3.73)]. FS Date: 7/7/2016					

Photo 2 of 3 : UCIP_FA_2019_50202_35021.jpg



WS view: steel pipe with safety valve (marked) on levee slope.

LM Start	3.66	Rating **	M	Issue No.	956 (cont)
LM End	3.66	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_50202_35017.jpg



WS view: soil erosion (depression) on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.68	Rating **	C	Issue No.	169
LM End	3.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.367330 °	38.367807 °
				-121.554783 °	-121.551998 °
DWR ID	DWR_RD0150_03_s_2019_169				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.74	Rating **	C	Issue No.	170
LM End	3.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.367462 °	38.367463 °
				-121.553823 °	-121.553398 °
DWR ID	DWR_RD0150_03_s_2019_170				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.79	Rating **	M	Issue No.	116
LM End	3.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367535 °	38.367535 °
				-121.552815 °	-121.552815 °
DWR ID	DWR_RD0150_03_f_2013_116				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_116_20190904_00097.jpg



View of slope instability on the waterside of the levee. Fall 2016

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	3.88	Rating **	C	Issue No.	168
LM End	3.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.368222°	38.368408°
				-121.551460°	-121.551338°
DWR ID	DWR_RD0150_03_s_2019_168				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.92	Rating **	C	Issue No.	167
LM End	3.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.368745°	38.369093°
				-121.551363°	-121.551482°
DWR ID	DWR_RD0150_03_s_2019_167				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.98	Rating **	C	Issue No.	126
LM End	4.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.369503°	38.371860°
				-121.551683°	-121.551988°
DWR ID	DWR_RD0150_03_s_2019_126				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.02	Rating **	M	Issue No.	93
LM End	4.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.370125°	38.370125°	
			-121.552030°	-121.552030°	
DWR ID	DWR_RD0150_03_s_2016_93				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is erosion on the waterside toe of the levee.					

Photo 1 of 1 : FA_2019_RD0150_17_93_20190904_00074.jpg



Erosion was found on the waterside toe of the levee. Spring 2016

LM Start	4.18	Rating **	C	Issue No.	166
LM End	4.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.372083°	38.373800°	
			-121.551685°	-121.550458°	
DWR ID	DWR_RD0150_03_s_2019_166				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	4.38	Rating **	C	Issue No.	51
LM End	4.38	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.374269°	38.374269°	
			-121.549385°	-121.549385°	
DWR ID	DWR_RD0150_03_s_2012_51				
Comment Code					
PR : Prunings					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.39	Rating **	A/W	Issue No.	98 (cont)
LM End	4.43	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.374278 °	38.374278 °
				-121.549167 °	-121.548511 °
DWR ID	LMA-130				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: Between 11 and 19 January 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long, 7 feet below the levee crest, and includes a fallen tree and exposed root ball in the levee slope. See attached pages for photos. Site ID No: 304 Site Designation: LMA-130 Repair Type: Erosion Rating: Serious Field Date: 7/18/2017 Notes: Crown is a paved road. Near vertical on lower 1/2 of slope including a fallen tree with exposed root ball. Serious because sloughing cuts into already over-steepened prism significantly and visible longitudinal cracking near crown.</p>					

Photo 3 of 3 : LEVAL_FA_2019_304_2078.jpg



LM Start	4.47	Rating **	A/W	Issue No.	108
LM End	4.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.374314 °	38.374344 °
				-121.547753 °	-121.547447 °
DWR ID	LMA-131				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: Between 11 January 2017 and 7 February 2017, instability, cracking, and erosion of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long. See attached pages for photos. Site ID No: 305 Site Designation: LMA-131 Repair Type: Erosion Rating: Serious Field Date: 7/18/2017 Notes: Crown is a paved road. Near vertical sloughing on the lower 2/3 of the prism. House and ramp/driveway on the LS. Serious because sloughing cuts into already over-steepened prism significantly. 2019 Spring DWR Inspection: Erosion was not visible during the inspection due to high water.</p>					

Photo 1 of 2 : LEVAL_FA_2019_305_2066.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.49	Rating **	A/W	Issue No.	80
LM End	4.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.374355°	38.374355°
				-121.547436°	-121.547436°
DWR ID	DWR_RD0150_03_s_2014_80				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_80_20190904_00061.jpg



View of an erosion site on the waterside toe of the levee looking upstream. Spring 2014

LM Start	4.49	Rating **	M	Issue No.	94
LM End	4.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.374367°	38.374367°
				-121.547327°	-121.547327°
DWR ID	DWR_RD0150_03_s_2012_94				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_94_20190904_00075.jpg



View of landscape on the landside shoulder of the levee. Fall 2016

LM Start	4.55	Rating **	C	Issue No.	163
LM End	4.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.374528°	38.374632°
				-121.546372°	-121.545615°
DWR ID	DWR_RD0150_03_s_2019_163				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.63	Rating **	M	Issue No.	957 (cont)
LM End	4.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.374934 °	38.374934 °
				-121.545029 °	-121.545029 °
DWR ID	22444				
Comment Code					
Inspector Comment					
DS_ID:22444 FS_ID:19281 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - service pole on LS. 1" conduit on WS.- levee toe cut out on landside.- walkway and gate. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.8 feet below the crown. Pump on pilings in the stream. Concrete standpipe at the landside (LS) toe. (P. Cook). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.71)]. FS Date: 8/20/2013					

Photo 3 of 3 : UCIP_FA_2019_19281_32539.jpg



WS view: safety valve on steel pipe.

LM Start	4.64	Rating **	C	Issue No.	162
LM End	4.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.374995 °	38.374995 °
				-121.544913 °	-121.544913 °
DWR ID	DWR_RD0150_03_s_2019_162				
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.76	Rating **	C	Issue No.	160
LM End	4.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.376258°	38.376597°
				-121.543288°	-121.542942°
DWR ID	DWR_RD0150_03_s_2019_160				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	4.79	Rating **	M	Issue No.	101
LM End	4.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.376562°	38.376562°
				-121.543016°	-121.543016°
DWR ID	DWR_RD0150_03_s_2017_101				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_101_20190904_00082.jpg



View of an erosion on the waterside toe of the levee. Spring 2017

LM Start	4.87	Rating **	C	Issue No.	159
LM End	4.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.377390°	38.377390°
				-121.541832°	-121.541832°
DWR ID	DWR_RD0150_03_s_2019_159				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.90	Rating **	M	Issue No.	958
LM End	4.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.377718°	38.377718°
				-121.541413°	-121.541413°
DWR ID	22445				
Comment Code					
Inspector Comment					
DS_ID:22445 FS_ID:19283 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned.- may need proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.2 feet below the crown. Gate valve on the landside (LS) end. (D. Conner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.99)]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_FA_2019_19283_32565.jpg



WS view: steel pipe on levee slope and in the stream.

LM Start	4.90	Rating **	M	Issue No.	958 (cont)
LM End	4.90	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_19283_32564.jpg



LS view: abandoned pump set and concrete box on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.90	Rating **	M	Issue No.	958 (cont)
LM End	4.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.377718°	38.377718°
				-121.541413°	-121.541413°
DWR ID	22445				
Comment Code					
Inspector Comment					
DS_ID:22445 FS_ID:19283 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned.- may need proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.2 feet below the crown. Gate valve on the landside (LS) end. (D. Conner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.99)]. FS Date: 8/23/2013					

Photo 3 of 3 : UCIP_FA_2019_19283_32563.jpg



LS view: abandoned pump and gate valve on levee slope.

LM Start	4.96	Rating **	C	Issue No.	158
LM End	4.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378340°	38.378472°
				-121.540877°	-121.540763°
DWR ID	DWR_RD0150_03_s_2019_158				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	4.99	Rating **	C	Issue No.	36
LM End	4.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.378771 °	38.378771 °
				-121.540538 °	-121.540538 °
DWR ID	DWR_RD0150_03_f_2012_36				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	5.00	Rating **	C	Issue No.	124
LM End	5.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.378888 °	38.378888 °
				-121.540486 °	-121.540486 °
DWR ID	DWR_RD0150_03_s_2018_124				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

LM Start	5.03	Rating **	C	Issue No.	157
LM End	5.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.379273 °	38.379783 °
				-121.540233 °	-121.540052 °
DWR ID	DWR_RD0150_03_s_2019_157				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.05	Rating **	M	Issue No.	81
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.379608°	38.379608°	
			-121.540082°	-121.540082°	
DWR ID	DWR_RD0150_03_f_2014_81				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_81_20190904_00062.jpg



View of erosion on the waterside of the levee looking downstream. Fall 2014

LM Start	5.05	Rating **	M	Issue No.	95
LM End	5.05	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.379617°	38.379617°	
			-121.540058°	-121.540058°	
DWR ID	DWR_RD0150_03_s_2016_95				
Comment Code					
PI : Pipe					
Inspector Comment					
Abandoned pipe was found on the landside slope of the levee.					

Photo 1 of 1 : FA_2019_RD0150_17_95_20190904_00076.jpg



View of an abandoned pipe on the landside slope of the levee. Spring 2016

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.06	Rating **	A/W	Issue No.	959
LM End	5.06	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		38.379697°	38.379697°	
			-121.540070°	-121.540070°	
DWR ID	22446				
Comment Code					
Inspector Comment					
DS_ID:22446 FS_ID:49386 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing.8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS. FIELD_STRUCT_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_FA_2019_49386_63902.jpg



WS view: pipe, steel deck, pressure tank, electric control box on stream bank.

LM Start	5.06	Rating **	A/W	Issue No.	959 (cont)
LM End	5.06	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_49386_63901.jpg



WS view: a smaller pump on steel deck. It was working during the survey.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.06	Rating **	A/W	Issue No.	959 (cont)
LM End	5.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.379697°	38.379697°
				-121.540070°	-121.540070°
DWR ID	22446				
Comment Code					
Inspector Comment					
DS_ID:22446 FS_ID:49386 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing.8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS. FIELD_STRUCT_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown]. FS Date: 8/23/2013					

Photo 3 of 3 : UCIP_FA_2019_49386_63900.jpg



WS view: siphon breaker on pipe in steel deck on stream bank.

LM Start	5.09	Rating **	M	Issue No.	48
LM End	5.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.380110°	38.380110°
				-121.540061°	-121.540061°
DWR ID	DWR_RD0150_03_f_2015_48				
Comment Code					
ST : Stairway					
Inspector Comment					
There is an unpermitted stairway at this location.					

Photo 1 of 1 : FA_2019_RD0150_17_48_20190904_00030.jpg



View of a stairway on the waterside of the levee. Fall 2015

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.15	Rating **	C	Issue No.	72
LM End	5.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.380940°	38.380940°
				-121.540384°	-121.540384°
DWR ID	DWR_RD0150_03_f_2016_72				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree stump and broken tree were found on the waterside toe but were not visible during Spring inspection due to high water.					

No Photos

LM Start	5.19	Rating **	M	Issue No.	125
LM End	5.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381352°	38.381352°
				-121.540797°	-121.540797°
DWR ID	DWR_RD0150_03_s_2018_125				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree with exposed rootball.					

Photo 1 of 1 : FA_2019_RD0150_17_125_20191121_00164.jpg



View of fallen tree with exposed rootball. Fall 2019

LM Start	5.29	Rating **	C	Issue No.	154
LM End	5.32	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.381810°	38.381868°
				-121.542525°	-121.543188°
DWR ID	DWR_RD0150_03_s_2019_154				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.32	Rating **	C	Issue No.	96
LM End	5.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381843°	38.381843°
				-121.543117°	-121.543117°
DWR ID	DWR_RD0150_03_s_2016_96				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree/root damaged levee slope and needs to be removed.					

No Photos

LM Start	5.36	Rating **	C	Issue No.	153
LM End	5.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.381942°	38.382010°
				-121.543818°	-121.544033°
DWR ID	DWR_RD0150_03_s_2019_153				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.50	Rating **	M	Issue No.	12
LM End	5.50	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.383099 °	38.383099 °	
			-121.545744 °	-121.545744 °	
DWR ID	DWR_RD0150_03_s_2012_12				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD0150_17_12_20190904_00001.jpg



Prunings were found on the landside toe of the levee looking upstream.

LM Start	5.50	Rating **	M	Issue No.	12 (cont)
LM End	5.50	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2019_RD0150_17_12_20190904_00002.jpg



View of pruning pile on the landside toe of the levee looking upstream during the fall 2013 inspection.

LM Start	5.50	Rating **	M	Issue No.	39
LM End	5.50	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.383183 °	38.383183 °	
			-121.545732 °	-121.545732 °	
DWR ID	DWR_RD0150_03_f_2018_39				
Comment Code					
DE : Debris					
Inspector Comment					
Landowner needs to remove metal debris from the levee slope.					

Photo 1 of 1 : FA_2019_RD0150_17_39_20190904_00020.jpg



View of landowner's metal debris at levee toe. Fall 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.56	Rating **	N	Issue No.	68
LM End	5.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.383697°	38.383697°	
			-121.545201°	-121.545201°	
DWR ID	DWR_RD0150_03_f_2019_68				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_68_20190904_00053.jpg



Tree stump was found on the waterside of the levee looking upstream. Fall 2011

LM Start	5.64	Rating **	M	Issue No.	150
LM End	5.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.383825°	38.383825°	
			-121.543683°	-121.543683°	
DWR ID	DWR_RD0150_03_s_2019_150				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree debris from the levee shoulder and slope.					

Photo 1 of 2 : FA_2019_RD0150_17_150_20190904_00111.jpg



View of tree debris on waterside slope. Spring 2019

LM Start	5.64	Rating **	M	Issue No.	150 (cont)
LM End	5.64	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_RD0150_17_150_20190904_00112.jpg



View of tree debris on waterside slope. Spring 2019

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.68	Rating **	C	Issue No.	149
LM End	5.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.383920°	38.384188°
				-121.543117°	-121.541768°
DWR ID	DWR_RD0150_03_s_2019_149				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.70	Rating **	M	Issue No.	960
LM End	5.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.383996°	38.383996°
				-121.542638°	-121.542638°
DWR ID	22448				
Comment Code					
Inspector Comment					
DS_ID:22448 FS_ID:28265 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.8 feet below the crown. Pump and gate valve on a steel platform on the waterside (WS). (Plans for the installation of a vertical unit irrigation pumping plant and a 10-inch, 10-gauge steel discharge pipe through the levee authorized under Permit No. 1167, 1947 - Darrell Connor). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.80)]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_FA_2019_28265_51974.jpg



WS view: walkway, pipe, pump and support deck on river bank.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.70	Rating **	M	Issue No.	960 (cont)
LM End	5.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.383996°	38.383996°
				-121.542638°	-121.542638°
DWR ID	22448				
Comment Code					
Inspector Comment					
DS_ID:22448 FS_ID:28265 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.8 feet below the crown. Pump and gate valve on a steel platform on the waterside (WS). (Plans for the installation of a vertical unit irrigation pumping plant and a 10-inch, 10-gauge steel discharge pipe through the levee authorized under Permit No. 1167, 1947 - Darrell Connor). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.80)]. FS Date: 8/23/2013					

Photo 2 of 3 : UCIP_FA_2019_28265_51973.jpg



WS view: electric control box and power pole.

LM Start	5.70	Rating **	M	Issue No.	960 (cont)
LM End	5.70	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_28265_51972.jpg



WS view: pipe, pump and gate valve on pump deck.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.71	Rating **	C	Issue No.	104
LM End	5.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.384026°	38.384026°
				-121.542455°	-121.542455°
DWR ID	DWR_RD0150_03_s_2017_104				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Animal hole appears to be inactive but should be backfilled.					

No Photos

LM Start	5.78	Rating **	M	Issue No.	28
LM End	5.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.384333°	38.384333°
				-121.541310°	-121.541310°
DWR ID	DWR_RD0150_03_s_2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_28_20190904_00007.jpg



Wild growth was found on the waterside slope of the levee looking upstream.

LM Start	5.79	Rating **	M	Issue No.	56
LM End	5.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384363°	38.384796°
				-121.541161°	-121.540525°
DWR ID	DWR_RD0150_03_s_2012_56				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_56_20190904_00039.jpg



View of fence around a horse pen along the shoulder of the levee and the landward slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.82	Rating **	M	Issue No.	57
LM End	5.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384648 °	38.384648 °
				-121.540669 °	-121.540669 °
DWR ID	DWR_RD0150_03_s_2012_57				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_57_20190904_00040.jpg



View of downed tree on landward slope should be removed.

LM Start	5.83	Rating **	U	Issue No.	58
LM End	5.83	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384803 °	38.384803 °
				-121.540545 °	-121.540545 °
DWR ID	DWR_RD0150_03_s_2012_58				
Comment Code					
BU : Building					
Inspector Comment					
Permit 7517 approved house and graze cattle; 7517-A approved septic tank and 4-inch sewer line.					

Photo 1 of 1 : FA_2019_RD0150_17_58_20190904_00041.jpg



Building & associated landscaping on levee crown.

LM Start	5.88	Rating **	M	Issue No.	147
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.385300 °	38.385300 °
				-121.540007 °	-121.540007 °
DWR ID	DWR_RD0150_03_s_2019_147				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree prunings from the 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.91	Rating **	U	Issue No.	21
LM End	5.98	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.385752°	38.386703°	
			-121.539905°	-121.540042°	
DWR ID	DWR_RD0150_03_s_2012_21				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_21_20190904_00004.jpg



Landscaping was found on the landside of the levee looking upstream. Fall 2011

LM Start	5.94	Rating **	C	Issue No.	146
LM End	5.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.386258°	38.386688°	
			-121.539792°	-121.540022°	
DWR ID	DWR_RD0150_03_s_2019_146				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.95	Rating **	M	Issue No.	961
LM End	5.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.386402°	38.386402°
				-121.539834°	-121.539834°
DWR ID	22451				
Comment Code					
Inspector Comment					
DS_ID:22451 FS_ID:19403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, invert elevation 2.5 feet below the crown. Pump and gate valve removed prior to October 1962. Steel plate welded to the waterside (WS) end. Power pole and two anchors on the landside (LS) slope. (Warren Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 6.06)]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_FA_2019_19403_32942.jpg



WS view: open ended 6" steel pipe (top-left), 1" steel pipe (bottom), and another 6" steel pipe (right) on levee slope.

LM Start	5.95	Rating **	M	Issue No.	961 (cont)
LM End	5.95	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_19403_32941.jpg



WS view: Abandoned concrete box (top). Open ended 6" steel pipe, 1" steel pipe, and another 6" steel pipe on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	5.95	Rating **	M	Issue No.	961 (cont)
LM End	5.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.386402°	38.386402°
				-121.539834°	-121.539834°
DWR ID	22451				
Comment Code					
Inspector Comment					
DS_ID:22451 FS_ID:19403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, invert elevation 2.5 feet below the crown. Pump and gate valve removed prior to October 1962. Steel plate welded to the waterside (WS) end. Power pole and two anchors on the landside (LS) slope. (Warren Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 6.06)]. FS Date: 8/23/2013					

Photo 3 of 3 : UCIP_FA_2019_19403_32943.jpg



LS view: open end steel pipe on levee toe.

LM Start	6.05	Rating **	C	Issue No.	145
LM End	6.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.387532°	38.388118°
				-121.540925°	-121.541412°
DWR ID	DWR_RD0150_03_s_2019_145				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.12	Rating **	M	Issue No.	143
LM End	6.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.388372°	38.389207°	
			-121.541640°	-121.542072°	
DWR ID	DWR_RD0150_03_s_2019_143				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	6.13	Rating **	U	Issue No.	24
LM End	6.20	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.388535°	38.389391°	
			-121.541657°	-121.541901°	
DWR ID	DWR_RD0150_03_s_2012_24				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_24_20190904_00005.jpg



Oleander on landward slope blocking view of levee.

LM Start	6.25	Rating **	M	Issue No.	99
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.389857°	38.389857°	
			-121.541193°	-121.541193°	
DWR ID	DWR_RD0150_03_s_2016_99				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Landowner planted trees on the landside slope of the levee which are unpermitted and need to be removed.					

Photo 1 of 1 : FA_2019_RD0150_17_99_20190904_00081.jpg



View of planted trees on the landside slope of the levee. Spring 2016

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.25	Rating **	U	Issue No.	26
LM End	6.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389858 °	38.390115 °
				-121.541155 °	-121.540657 °
DWR ID	DWR_RD0150_03_s_2012_26				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_26_20190904_00006.jpg



Landscaping on landward slope.

LM Start	6.31	Rating **	C	Issue No.	142
LM End	6.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.390343 °	38.390675 °
				-121.540317 °	-121.539788 °
DWR ID	DWR_RD0150_03_s_2019_142				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	6.37	Rating **	C	Issue No.	141
LM End	6.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.390860 °	38.390967 °
				-121.539465 °	-121.539268 °
DWR ID	DWR_RD0150_03_s_2019_141				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.40	Rating **	C	Issue No.	140
LM End	6.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391190°	38.391332°
				-121.538940°	-121.538745°
DWR ID	DWR_RD0150_03_s_2019_140				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	6.45	Rating **	M	Issue No.	60
LM End	6.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391616°	38.391616°
				-121.538378°	-121.538378°
DWR ID	DWR_RD0150_03_f_2019_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_60_20190904_00043.jpg



View of landscaping along the landward slope.

LM Start	6.52	Rating **	M	Issue No.	83
LM End	6.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.392580°	38.392580°
				-121.538059°	-121.538059°
DWR ID	DWR_RD0150_03_f_2014_83				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_83_20190904_00064.jpg



Prunings were found on the landside toe of the levee looking upstream. Fall 2014

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.53	Rating **	C	Issue No.	136
LM End	6.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.392795°	38.393107°
				-121.538188°	-121.538238°
DWR ID	DWR_RD0150_03_s_2019_136				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	6.58	Rating **	C	Issue No.	135
LM End	6.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393477°	38.395288°
				-121.538365°	-121.538508°
DWR ID	DWR_RD0150_03_s_2019_135				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	6.62	Rating **	C	Issue No.	46
LM End	6.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393950°	38.395118°
				-121.538580°	-121.538613°
DWR ID	DWR_RD0150_03_f_2018_46				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth to 20 ft. down from levee 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.63	Rating **	M	Issue No.	962 (cont)
LM End	6.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.394182°	38.394182°
				-121.538609°	-121.538609°
DWR ID	22457				
Comment Code					
Inspector Comment					
DS_ID:22457 FS_ID:42692 EP_NO: 14650 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Diesel powered slant pump on the waterside (WS). Concrete distribution box on the landside (LS) toe. (Plans to install a slant mounted pump on the WS of the levee with a 12-inch discharge pipe through the levee authorized under Permit No. 14650, 1987 - Webber Farms). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/23/2013					

Photo 3 of 3 : UCIP_FA_2019_42692_35080.jpg



WS view: air vent on steel pipe.

LM Start	6.64	Rating **	M	Issue No.	137
LM End	6.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.394332°	38.394332°
				-121.538658°	-121.538658°
DWR ID	DWR_RD0150_03_s_2019_137				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Remove the fallen tree and repair slope damaged by root ball.					

Photo 1 of 1 : FA_2019_RD0150_17_137_20190904_00110.jpg



View of fallen tree on waterside slope. Spring 2019

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.75	Rating **	M	Issue No.	30
LM End	6.81	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.395643°	38.395953°	
			-121.537923°	-121.536773°	
DWR ID	DWR_RD0150_03_s_2012_30				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_30_20190904_00008.jpg



Landscaping on landward slope blocking view

LM Start	6.82	Rating **	M	Issue No.	13
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.395998°	38.396982°	
			-121.536613°	-121.535171°	
DWR ID	DWR_RD0150_03_s_2012_13				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_13_20190904_00003.jpg



Fence was found on the landside of the levee looking downstream. Fall 2011

LM Start	6.85	Rating **	M	Issue No.	933
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.396187°	38.396989°	
			-121.536180°	-121.535151°	
DWR ID	DWR_RD0150_03_s_2012_933				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping needs to be maintained.					

Photo 1 of 1 : FA_2019_RD0150_17_933_20190904_00115.jpg



View of the landscape on the landside shoulder of the levee looking downstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.90	Rating **	M	Issue No.	61
LM End	6.90	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.396655 °	38.396655 °
				-121.535485 °	-121.535485 °
DWR ID	DWR_RD0150_03_s_2012_61				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					



View of erosion on waterside slope. Spring 2019

LM Start	6.90	Rating **	M	Issue No.	61 (cont)
LM End	6.90	Issue Type +	Ma	Location *	WS



View of erosion on the waterside of the levee during spring 2015 inspection.

LM Start	6.93	Rating **	M	Issue No.	31
LM End	6.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397021 °	38.397540 °
				-121.535151 °	-121.535183 °
DWR ID	DWR_RD0150_03_s_2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					



Landscaping was found on the landside shoulder of the levee looking upstream.

* 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**

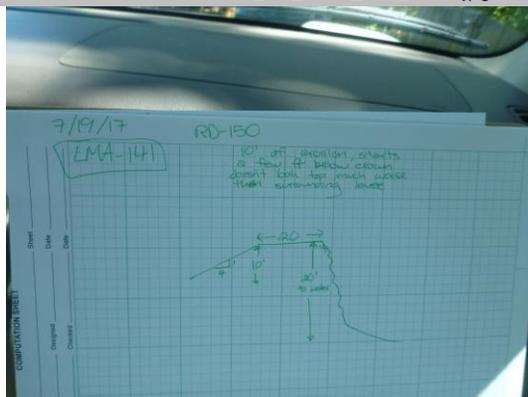
Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	6.95	Rating **	A/W	Issue No.	121 (cont)
LM End	6.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.397197°	38.397225°
				-121.535089°	-121.535092°
DWR ID	LMA-141				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos. Site ID No:314					
Site Designation: LMA-141					
Repair Type: Erosion					
Rating: Area of Concern					
Field Date: 7/19/2017					
Notes: Area of concern because the site is so small and only looks slightly worse than the surrounding levee slope. Crown is a paved road. Spring 2019 DWR Inspection: Erosion was not visible during this inspection due to high water.					

Photo 3 of 3 : LEVAL_FA_2019_314_2324.jpg



LM Start	7.01	Rating **	C	Issue No.	133
LM End	7.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.398105°	38.398780°
				-121.535260°	-121.535335°
DWR ID	DWR_RD0150_03_s_2019_133				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	7.17	Rating **	C	Issue No.	131
LM End	7.17	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.400408°	38.400408°
				-121.535912°	-121.535912°
DWR ID	DWR_RD0150_03_s_2019_131				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	7.18	Rating **	C	Issue No.	127
LM End	7.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.400515°	38.400743°
				-121.535970°	-121.536083°
DWR ID	DWR_RD0150_03_s_2019_127				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	7.20	Rating **	M	Issue No.	130
LM End	7.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.400743°	38.400743°
				-121.536083°	-121.536083°
DWR ID	DWR_RD0150_03_s_2019_130				
Comment Code					
TA : Tank					
Inspector Comment					
Remove tank from the levee toe.					

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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	7.27	Rating **	U	Issue No.	64
LM End	7.27	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.401520°	38.401520°	
			-121.536907°	-121.536907°	
DWR ID	DWR_RD0150_03_s_2012_64				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Fan palm trees are not allowed on the levee slope.					

Photo 1 of 1 : FA_2019_RD0150_17_64_20190904_00048.jpg



Landscaping on the waterside of the levee. The picture was taken from the crown looking upstream. Spring 2011

LM Start	7.28	Rating **	M	Issue No.	29
LM End	7.28	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.401682°	38.401682°	
			-121.537147°	-121.537147°	
DWR ID	DWR_RD0150_03_f_2019_29				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree from the levee slope.					

No Photos

LM Start	7.29	Rating **	U	Issue No.	32
LM End	7.34	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.401738°	38.402296°	
			-121.537127°	-121.537678°	
DWR ID	DWR_RD0150_03_s_2012_32				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD0150_17_32_20190904_00010.jpg



Vegetation on the landside of the levee looking upstream. Spring 2012

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	7.29	Rating **	U	Issue No.	32 (cont)
LM End	7.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401738 °	38.402296 °
				-121.537127 °	-121.537678 °
DWR ID	DWR_RD0150_03_s_2012_32				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 2 of 2 : FA_2019_RD0150_17_32_20190904_00011.jpg



Landscaping on landward slope blocking view

LM Start	7.38	Rating **	M	Issue No.	110
LM End	7.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.402758 °	38.402858 °
				-121.538157 °	-121.538225 °
DWR ID	DWR_RD0150_03_s_2019_110				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	7.39	Rating **	M	Issue No.	84
LM End	7.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.402910 °	38.403047 °
				-121.538318 °	-121.538433 °
DWR ID	DWR_RD0150_03_s_2012_84				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Pomegranate and citrus trees are planted on the levee slope.					

Photo 1 of 1 : FA_2019_RD0150_17_84_20190904_00065.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	7.40	Rating **	C	Issue No.	109
LM End	7.58	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.403017°	38.404595°	
			-121.538362°	-121.540983°	
DWR ID	DWR_RD0150_03_s_2019_109				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	7.44	Rating **	U	Issue No.	934
LM End	7.44	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.403566°	38.403566°	
			-121.538886°	-121.538886°	
DWR ID	DWR_RD0150_03_s_2012_934				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_934_20190904_00116.jpg



Landscaping was blocking the visibility on the landside of the levee looking downstream.

LM Start	7.47	Rating **	M	Issue No.	935
LM End	7.47	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.403795°	38.403795°	
			-121.539205°	-121.539205°	
DWR ID	DWR_RD0150_03_s_2012_935				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD0150_17_935_20190904_00117.jpg



Prunings were found on the landside of the levee looking upstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	7.47	Rating **	M	Issue No.	935 (cont)
LM End	7.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.403795°	38.403795°
				-121.539205°	-121.539205°
DWR ID	DWR_RD0150_03_s_2012_935				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 2 of 2 : FA_2019_RD0150_17_935_20190904_00118.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

LM Start	7.63	Rating **	C	Issue No.	103
LM End	7.76	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.404812°	38.406445°
				-121.541792°	-121.542932°
DWR ID	DWR_RD0150_03_s_2019_103				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	7.66	Rating **	C	Issue No.	105
LM End	7.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.405055°	38.405055°
				-121.542243°	-121.542243°
DWR ID	DWR_RD0150_03_s_2019_105				
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

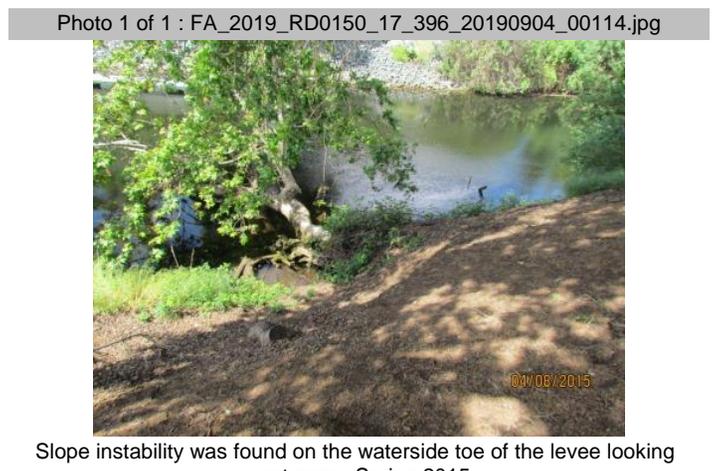
LM Start	7.70	Rating **	C	Issue No.	52
LM End	7.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.405536°	38.405536°	
			-121.542752°	-121.542752°	
DWR ID	DWR_RD0150_03_f_2015_52				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree trunks and stumps need to be removed from levee slope.					

No Photos

LM Start	7.73	Rating **	U	Issue No.	63
LM End	7.74	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.405961°	38.406060°	
			-121.542968°	-121.543027°	
DWR ID	DWR_RD0150_03_s_2019_63				
Comment Code					
FW : Firewood					
Inspector Comment					
Firewood sits on both sides of the levee crown.					



LM Start	7.74	Rating **	M	Issue No.	396
LM End	7.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.406098°	38.406098°	
			-121.543028°	-121.543028°	
DWR ID	DWR_RD0150_03_s_2015_396				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					



* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	7.75	Rating **	M	Issue No.	129
LM End	7.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.406298 °	38.406298 °	
			-121.542939 °	-121.542939 °	
DWR ID	DWR_RD0150_03_f_2017_129				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from the waterside shoulder of the levee, and fill any large void.					

Photo 1 of 1 : FA_2019_RD0150_17_129_20190904_00108.jpg



View of a tree stump on the waterside shoulder of the levee. Fall 2017

LM Start	7.78	Rating **	C	Issue No.	117
LM End	7.78	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.406645 °	38.406645 °	
			-121.542835 °	-121.542835 °	
DWR ID	DWR_RD0150_03_s_2017_117				
Comment Code					
FW : Firewood					
Inspector Comment					
Firewood needs to be removed from waterside slope.					

No Photos

LM Start	7.79	Rating **	M	Issue No.	75
LM End	7.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.406805 °	38.406805 °	
			-121.542703 °	-121.542703 °	
DWR ID	DWR_RD0150_03_f_2018_75				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree from the levee slope.					

Photo 1 of 1 : FA_2019_RD0150_17_75_20190904_00059.jpg



View of downed tree on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	7.85	Rating **	C	Issue No.	79
LM End	7.91	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.407563°	38.408305°	
			-121.542198°	-121.541617°	
DWR ID	DWR_RD0150_03_s_2019_79				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	7.99	Rating **	M	Issue No.	92
LM End	8.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.409010°	38.409130°	
			-121.540513°	-121.539971°	
DWR ID	DWR_RD0150_03_s_2014_92				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD0150_17_92_20190904_00072.jpg



View of slope instability on the waterside of the levee looking upstream during spring 2015 inspection.

LM Start	7.99	Rating **	M	Issue No.	92 (cont)
LM End	8.02	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_RD0150_17_92_20190904_00073.jpg



Slope instability was found on the waterside of the levee looking downstream.

* 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**

Levee Inspection Report By Mile - Fall 2019

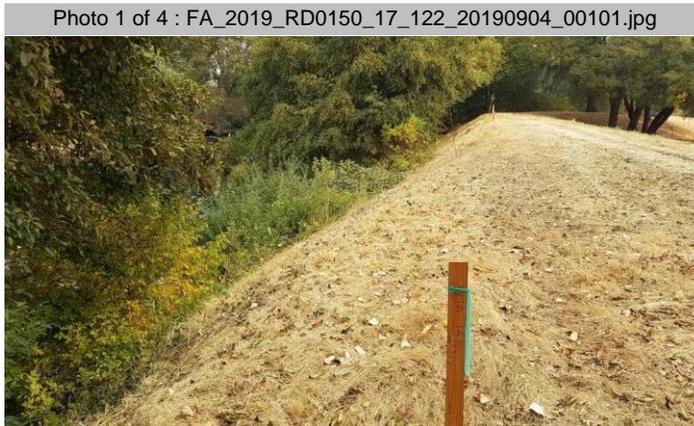
Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.02	Rating **	C	Issue No.	43
LM End	8.93	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.409162°	38.414543°	
			-121.539857°	-121.528982°	
DWR ID	DWR_RD0150_03_s_2019_43				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	8.05	Rating **	A/W	Issue No.	122
LM End	8.05	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.409228°	38.409233°	
			-121.539389°	-121.539356°	
DWR ID	LMA-142				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.					
Site ID No:315					
Site Designation:LMA-142					
Repair Type: Erosion					
Rating: Serious					
Field Date:7/17/2017					
Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extend along the entire slope, but not into the crown. Fall 2018 DWR					
Inspector: Erosion not visible during this inspection but is marked.					



View of waterside slope. Fall 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.05	Rating **	A/W	Issue No.	122 (cont)
LM End	8.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.409228 °	38.409233 °
				-121.539389 °	-121.539356 °
DWR ID	LMA-142				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos. Site ID No:315 Site Designation:LMA-142 Repair Type: Erosion Rating: Serious Field Date:7/17/2017 Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extend along the entire slope, but not into the crown. Fall 2018 DWR Inspector: Erosion not visible during this inspection but is marked.</p>					

Photo 2 of 4 : LEVAL_FA_2019_315_2183.jpg



LM Start	8.05	Rating **	A/W	Issue No.	122 (cont)
LM End	8.05	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : LEVAL_FA_2019_315_2186.jpg



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

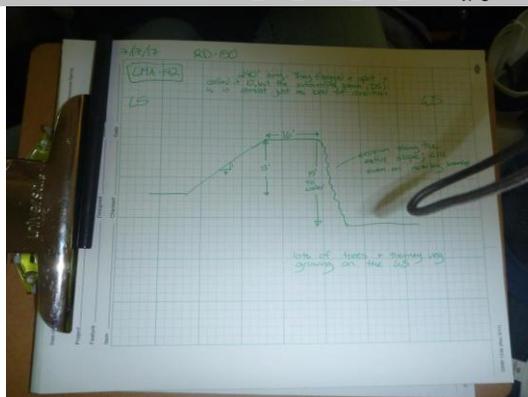
Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.05	Rating **	A/W	Issue No.	122 (cont)
LM End	8.05	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.409228°	38.409233°	
			-121.539389°	-121.539356°	
DWR ID	LMA-142				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos. Site ID No:315					
Site Designation:LMA-142					
Repair Type: Erosion					
Rating: Serious					
Field Date:7/17/2017					
Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extend along the entire slope, but not into the crown. Fall 2018 DWR Inspector: Erosion not visible during this inspection but is marked.					

Photo 4 of 4 : LEVAL_FA_2019_315_2187.jpg



LM Start	8.05	Rating **	M	Issue No.	82
LM End	8.05	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.409224°	38.409224°	
			-121.539350°	-121.539350°	
DWR ID	DWR_RD0150_03_f_2013_82				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_82_20190904_00063.jpg



Prunings were found on the landside toe of the levee looking upstream. Fall 2014

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.20	Rating **	U	Issue No.	963
LM End	8.20	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.408619°	38.408619°
				-121.536768°	-121.536768°
DWR ID	22466				
Comment Code					
Inspector Comment					
DS_ID:22466 FS_ID:53335 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018: Same as last inspection so the crossing remains Urgent due to caved in levee below pipe at gate valve; needs proper abandonment (DWR UCIP - D. Sanoski).07/08/2016: Needs proper abandonment. Levee caved in below pipe at gate valve on WS. Discussed abandonment with Warren Bogle of Colby Ranch. (K. Fazel - UCIP)08/23/2013: Needs proper abandonment (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 13.8 feet below the crown. Gate valve on the waterside (WS) slope. Pilings in the stream, but no pump was found. Service pole with guy wire on the landside (LS) slope. Standpipe on the LS slope. (A. Colby). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.34)]. FS Date: 6/5/2018 3:30:00 PM					

Photo 1 of 3 : UCIP_FA_2019_53335_33627.jpg



WS view: pipe visible on levee slope and in the stream.

LM Start	8.20	Rating **	U	Issue No.	963 (cont)
LM End	8.20	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_53335_33626.jpg



WS view: abandoned gate valve found on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.20	Rating **	U	Issue No.	963 (cont)
LM End	8.20	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.408619 °	38.408619 °
				-121.536768 °	-121.536768 °
DWR ID	22466				
Comment Code					
Inspector Comment					
DS_ID:22466 FS_ID:53335 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018: Same as last inspection so the crossing remains Urgent due to caved in levee below pipe at gate valve; needs proper abandonment (DWR UCIP - D. Sanoski).07/08/2016: Needs proper abandonment. Levee caved in below pipe at gate valve on WS. Discussed abandonment with Warren Bogle of Colby Ranch. (K. Fazel - UCIP)08/23/2013: Needs proper abandonment (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 13.8 feet below the crown. Gate valve on the waterside (WS) slope. Pilings in the stream, but no pump was found. Service pole with guy wire on the landside (LS) slope. Standpipe on the LS slope. (A. Colby). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.34)]. FS Date: 6/5/2018 3:30:00 PM					

Photo 3 of 3 : UCIP_FA_2019_53335_33625.jpg



LS view: no pipe and structure found on landside.

LM Start	8.26	Rating **	M	Issue No.	65
LM End	8.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.408213 °	38.408213 °
				-121.535911 °	-121.535911 °
DWR ID	DWR_RD0150_03_f_2015_65				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_65_20190904_00049.jpg



View of erosion on the waterside of the levee. Fall 2015

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.31	Rating **	M	Issue No.	66
LM End	8.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407960 °	38.407960 °
				-121.534898 °	-121.534898 °
DWR ID	DWR_RD0150_03_s_2012_66				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_66_20190904_00050.jpg



View of erosion on the waterside of the levee. Spring 2015

LM Start	8.33	Rating **	M	Issue No.	67
LM End	8.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °
				-121.534583 °	-121.534583 °
DWR ID	DWR_RD0150_03_s_2012_67				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD0150_17_67_20190904_00051.jpg



View of the erosion on the waterside shoulder looking upstream. Spring 2014

LM Start	8.33	Rating **	M	Issue No.	67 (cont)
LM End	8.33	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_RD0150_17_67_20190904_00052.jpg



Erosion was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.33	Rating **	M	Issue No.	70
LM End	8.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.407927 °	38.407927 °	
			-121.534523 °	-121.534523 °	
DWR ID	DWR_RD0150_03_s_2019_70				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	8.35	Rating **	A/W	Issue No.	123
LM End	8.35	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.407983 °	38.407992 °	
			-121.534322 °	-121.534289 °	
DWR ID	LMA-143				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.					
Site ID No:316					
Site Designation:LMA-143					
Repair Type: Erosion					
Rating: Serious					
Field Date:7/17/2017					
Notes: 3 large trees in/adjacent to site including a fallen tree in the middle of the erosion. Erosion on almost the whole slope, but doesn't cut into the crown. Serious because erosion cuts into levee significantly here.					

Photo 1 of 3 : LEVAL_FA_2019_316_2180.jpg



* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.37	Rating **	M	Issue No.	88
LM End	8.37	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408155°	38.408155°
				-121.533982°	-121.533982°
DWR ID	DWR_RD0150_03_s_2012_88				
Comment Code					
PO : Pole					
Inspector Comment					

No Photos

LM Start	8.37	Rating **	M	Issue No.	964
LM End	8.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.408188°	38.408188°
				-121.533935°	-121.533935°
DWR ID	22467				
Comment Code					
Inspector Comment					
DS_ID:22467 FS_ID:41648 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 13 feet below the crown. Pump and gate valve in a pump house on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. Service pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.51)]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_FA_2019_41648_33642.jpg



WS view: walkway and inlet pipe on levee slope.

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.37	Rating **	M	Issue No.	964 (cont)
LM End	8.37	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.408188°	38.408188°	
			-121.533935°	-121.533935°	
DWR ID	22467				
Comment Code					
Inspector Comment					
DS_ID:22467 FS_ID:41648 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 13 feet below the crown. Pump and gate valve in a pump house on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. Service pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.51)]. FS Date: 8/23/2013					

Photo 2 of 3 : UCIP_FA_2019_41648_33641.jpg



WS view: pump, gate valve, and airvent on pipe inside concrete masonry box.

LM Start	8.37	Rating **	M	Issue No.	964 (cont)
LM End	8.37	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_41648_33640.jpg



WS view: 8-inch steel pipe (right) next to 12" pipe (left). This 8" pipe might have merged with 12" pipe under the levee .

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.38	Rating **	M	Issue No.	69
LM End	8.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408238 °	38.409291 °
				-121.533866 °	-121.532702 °
DWR ID	DWR_RD0150_03_s_2012_69				
Comment Code					
DT : Ditch					
Inspector Comment					
An irrigation ditch runs along the landside toe.					

No Photos

LM Start	8.46	Rating **	N	Issue No.	90
LM End	8.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409220 °	38.409220 °
				-121.532801 °	-121.532801 °
DWR ID	DWR_RD0150_03_s_2012_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_90_20190904_00068.jpg



A tree stump was found on the landside of the levee looking upstream.

LM Start	8.50	Rating **	N	Issue No.	55
LM End	8.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409559 °	38.409559 °
				-121.532356 °	-121.532356 °
DWR ID	DWR_RD0150_03_s_2012_55				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_55_20190904_00038.jpg



A tree stump was found on the waterside of the levee looking upstream.
Fall 2011

* 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	8.76	Rating **	M	Issue No.	47
LM End	8.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.412105°	38.412105°	
			-121.528977°	-121.528977°	
DWR ID	DWR_RD0150_03_s_2019_47				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	8.87	Rating **	C	Issue No.	44
LM End	8.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.413673°	38.413673°	
			-121.529062°	-121.529062°	
DWR ID	DWR_RD0150_03_s_2019_44				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	9.16	Rating **	C	Issue No.	22
LM End	9.38	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.413798°	38.413468°	
			-121.526620°	-121.523175°	
DWR ID	DWR_RD0150_03_s_2019_22				
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	9.21	Rating **	N	Issue No.	59
LM End	9.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.413268°	38.413268°	
			-121.525929°	-121.525929°	
DWR ID	DWR_RD0150_03_s_2012_59				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_59_20190904_00042.jpg



A tree stump was found on the waterside of the levee looking upstream. Fall 2011

LM Start	9.31	Rating **	C	Issue No.	73
LM End	9.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.413095°	38.413169°	
			-121.524402°	-121.523707°	
DWR ID	DWR_RD0150_03_s_2012_73				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	9.34	Rating **	M	Issue No.	23
LM End	9.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.413130°	38.413130°	
			-121.523742°	-121.523742°	
DWR ID	DWR_RD0150_03_f_2019_23				
Comment Code					
TR : Tree or limb					
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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/14/2019 11/14/2019	Luz Dial

LM Start	9.39	Rating **	M	Issue No.	950
LM End	9.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.413560 °	38.413560 °
				-121.522936 °	-121.522936 °
DWR ID	DWR_RD0150_03_s_2012_950				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD0150_17_950_20190904_00119.jpg



Equipment was found on the landside of the levee looking downstream.

* 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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