

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2016 Levee Inspection Results

Reclamation District No. 1600 Mull

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	
Unit No. 01 Sacramento River		Right	10.46	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Jai Lor			
Accompanied By				

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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD1600_01_s_2013_32				
Comment Code					
Inspector Comment					
RD 1600 has copies of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	33
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD1600_01_s_2013_33				
Comment Code					
Inspector Comment					
RD 1600 maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	34
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD1600_01_s_2013_34				
Comment Code					
Inspector Comment					
RD 1600 has a written flood response plan and flood response training.					

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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.06	Rating **	M	Issue No.	1
LM End	0.06	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.675998 °	38.675998 °	
			-121.630732 °	-121.630732 °	
DWR ID	DWR_RD1600_01_s_2012_1				
Comment Code					
BU : Building					
Inspector Comment					
This is the home and pumping plant for RD 2035.					

Photo 1 of 1 : SP_2016_RD1600_191_1_20160304_00001.jpg



The caretakers home for the operator of the pumping plant (RD 2035).
Fall 2013

LM Start	0.10	Rating **	M	Issue No.	129
LM End	0.10	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.676467 °	38.676467 °	
			-121.631217 °	-121.631217 °	
DWR ID	DWR_RD1600_01_f_2013_129				
Comment Code					
BU : Building					
Inspector Comment					
This is a well pump house. It is potable water for the house and pumping plant.					

Photo 1 of 1 : SP_2016_RD1600_191_129_20160304_00054.jpg



The small building is a pump house for the well. It services the house with water. Fall 2013

* 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.11	Rating **	A/W	Issue No.	49
LM End	0.23	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.676577 °	38.678131 °	
			-121.631290 °	-121.632324 °	
DWR ID	DWR_RD1600_01_s_2012_49				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_49_20160407_00099.jpg



Sign stating revegetation site. Spring 2016.

LM Start	0.11	Rating **	A/W	Issue No.	49 (cont)
LM End	0.23	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_49_20160407_00100.jpg



View of the revegetation site and fence on the waterward side of the levee looking upstream. Spring 2016.

LM Start	0.11	Rating **	M	Issue No.	36
LM End	10.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.676588 °	38.765423 °	
			-121.631297 °	-121.635007 °	
DWR ID	DWR_RD1600_01_f_2015_36				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_36_20160407_00098.jpg



View of the vegetation on the waterward side of the levee looking upstream. Spring 2016.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.11	Rating **	M	Issue No.	26
LM End	10.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.676594 °	38.765422 °	
			-121.631295 °	-121.635009 °	
DWR ID	DWR_RD1600_01_s_2016_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_26_20160407_00097.jpg



View of the vegetation on the landward side of the levee looking upstream. Spring 2016.

LM Start	0.12	Rating **	M	Issue No.	38
LM End	0.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.676654 °	38.676654 °	
			-121.631348 °	-121.631348 °	
DWR ID	DWR_RD1600_01_f_2015_38				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_38_20160304_00033.jpg



View of a slope depression on the landward side of the levee looking downstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.13	Rating **	M	Issue No.	1203
LM End	0.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.676802 °	38.676802 °
				-121.631442 °	-121.631442 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15087 DS_ID:21459 EP_NO: 1929 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Line should be located with carsonite signs on both sides of levee. FIELD_STRUCT_DESC: Telephone cable through levee 3.0 feet below crown. Telephone line at JP off LS toe (Permit No. 1929, 1959). FS Date: 6/18/2013					

Photo 1 of 1 : UCIP_SP_2016_15087_24812.jpg



Line visible on JP off LS toe. Likely this is the source of crossing.

LM Start	0.21	Rating **	M	Issue No.	39
LM End	0.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.677766 °	38.677766 °
				-121.632123 °	-121.632123 °
DWR ID	DWR_RD1600_01_f_2015_39				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_39_20160304_00034.jpg



View of the slope stability on the landward side of the levee looking upstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.33	Rating **	M	Issue No.	40
LM End	0.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.679472 °	38.679472 °
				-121.633053 °	-121.633053 °
DWR ID	DWR_RD1600_01_f_2015_40				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_40_20160304_00035.jpg



View of the rodent hole on the landward side of the levee looking upstream. Fall 2015.

LM Start	0.53	Rating **	M	Issue No.	133
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.682140 °	38.682140 °
				-121.634083 °	-121.634083 °
DWR ID	DWR_RD1600_01_f_2013_133				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_133_20160304_00055.jpg



View of the slope stability on the landward side of the levee. Fall 2015.

LM Start	0.56	Rating **	M	Issue No.	7
LM End	0.66	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.682707 °	38.684106 °
				-121.633830 °	-121.634219 °
DWR ID	DWR_RD1600_01_s_2016_7				
Comment Code					
Inspector Comment					
2000 - Very cohesive vertical bank. 2003 - Some minor new erosion. 2006 - Some minor erosion in old pockets. 2009 - Minimal new erosion. 2011 - Multiple new erosion pockets and a few new tree popouts. 2015: No observed changes. [2015 Site ID: SAC_71-3_R]					

Photo 1 of 1 : SP_2016_RD1600_191_7_20160304_00009.jpg



USACE 2013 Photo #1

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.62	Rating **	M	Issue No.	29
LM End	0.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.683415 °	38.683415 °	
			-121.634448 °	-121.634448 °	
DWR ID	DWR_RD1600_01_s_2016_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Recommend removal of willow trees.					

Photo 1 of 2 : SP_2016_RD1600_191_29_20160407_00101.jpg



Perspective view of the willows on the waterward side of the levee looking upstream. Spring 2016.

LM Start	0.62	Rating **	M	Issue No.	29 (cont)
LM End	0.62	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_29_20160407_00103.jpg



Willows are growing on the waterward side of the levee. Spring 2016.

LM Start	0.78	Rating **	A/W	Issue No.	624
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.685713 °	38.685713 °	
			-121.634985 °	-121.634985 °	
DWR ID	DWR_RD1600_01_s_2015_624				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
The tree is dying and needs to be monitored.					

Photo 1 of 1 : SP_2016_RD1600_191_624_20160407_00104.jpg



View of the dying tree on the waterward side of the levee looking upstream. Spring 2016.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.83	Rating **	A/W	Issue No.	625
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.686515 °	38.686515 °
				-121.635134 °	-121.635134 °
DWR ID	DWR_RD1600_01_s_2014_625				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
The tree is dying and needs to be monitored so there is no threat to the levee					

Photo 1 of 1 : SP_2016_RD1600_191_625_20160407_00105.jpg



View of the tree on the waterward side of the levee. Spring 2016.

LM Start	0.94	Rating **	M	Issue No.	1211
LM End	0.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.688030 °	38.688030 °
				-121.635367 °	-121.635367 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15285 DS_ID:21463 EP_NO: 6100 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve will not open or close. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.4 feet below crown. Slant pump and gate valve on the waterward- slope. Siphon breaker in 12-inch steel riser on the landward shoulder. Filter, booster pump, and butterfly valve on LS toe. 2.25-inch galvanized iron electrical conduit at same location (Permit No. 6100, 1968). Replaced 8-inch pipe at same location. FS Date: 6/18/2013					

Photo 1 of 2 : UCIP_SP_2016_15285_25088.jpg



Siphon breaker in steel riser on LS shoulder and concrete standpipe off LS 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.94	Rating **	M	Issue No.	1211 (cont)
LM End	0.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.688030 °	38.688030 °
				-121.635367 °	-121.635367 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15285 DS_ID:21463 EP_NO: 6100 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve will not open or close. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.4 feet below crown. Slant pump and gate valve on the waterward- slope. Siphon breaker in 12-inch steel riser on the landward shoulder. Filter, booster pump, and butterfly valve on LS toe. 2.25-inch galvanized iron electrical conduit at same location (Permit No. 6100, 1968). Replaced 8-inch pipe at same location. FS Date: 6/18/2013					

Photo 2 of 2 : UCIP_SP_2016_15285_25087.jpg



Pump and gate valve on WS slope.

LM Start	0.97	Rating **	M	Issue No.	134
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.688454 °	38.688454 °
				-121.635528 °	-121.635528 °
DWR ID	DWR_RD1600_01_f_2013_134				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_134_20160304_00056.jpg



The levee has a deep depression caused by slope stability. Fall 2013

* 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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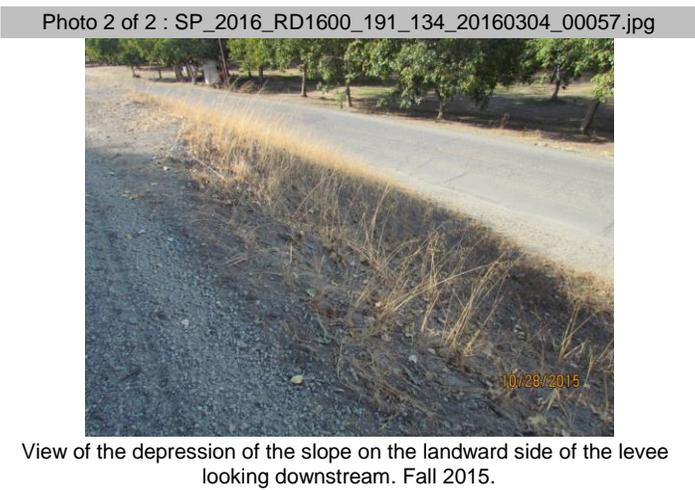
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

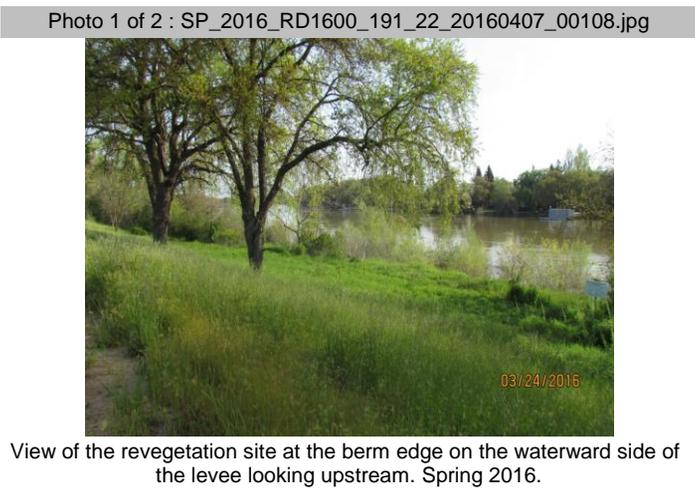
Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.97	Rating **	M	Issue No.	134 (cont)
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.688454 °	38.688454 °
				-121.635528 °	-121.635528 °
DWR ID	DWR_RD1600_01_f_2013_134				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					



LM Start	1.01	Rating **	A/W	Issue No.	22
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.689092 °	38.690368 °
				-121.635616 °	-121.635669 °
DWR ID	DWR_RD1600_01_s_2012_22				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					



LM Start	1.01	Rating **	A/W	Issue No.	22 (cont)
LM End	1.10	Issue Type +	Ma	Location *	WS



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

Levee Inspection Report By Mile - Spring 2016

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	1.39	Rating **	M	Issue No.	4
LM End	1.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.694395°	38.694395°	
			-121.634376°	-121.634376°	
DWR ID	DWR_RD1600_01_f_2012_4				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Damage looks like caused by vehicles.					

Photo 1 of 2 : SP_2016_RD1600_191_4_20160304_00004.jpg



Erosion from vehicles on levee slope. Spring 2013

LM Start	1.39	Rating **	M	Issue No.	4 (cont)
LM End	1.39	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_191_4_20160304_00005.jpg



View of the slope stability caused by vehicles on the landward side of the levee looking upstream. Fall 2015.

LM Start	1.40	Rating **	A/W	Issue No.	5
LM End	1.40	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.694469°	38.694469°	
			-121.634312°	-121.634312°	
DWR ID	DWR_RD1600_01_f_2012_5				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_5_20160407_00110.jpg



View of the revegetation site on the berm of the waterward side of the levee looking upstream. Spring 2016.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	1.40	Rating **	A/W	Issue No.	5 (cont)
LM End	1.40	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.694469 °	38.694469 °	
			-121.634312 °	-121.634312 °	
DWR ID	DWR_RD1600_01_f_2012_5				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 2 of 2 : SP_2016_RD1600_191_5_20160407_00109.jpg



DWR revegetation site. Spring 2016.

LM Start	1.53	Rating **	M	Issue No.	50
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.696341 °	38.696918 °	
			-121.633417 °	-121.633044 °	
DWR ID	DWR_RD1600_01_s_2016_50				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove willows on waterward side of the levee.					

No Photos

LM Start	1.70	Rating **	M	Issue No.	70
LM End	1.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.698414 °	38.698414 °	
			-121.631874 °	-121.631874 °	
DWR ID	DWR_RD1600_01_s_2016_70				
Comment Code					
S3 : Repair the levee slope damaged by vehicle 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	1.70	Rating **	M	Issue No.	626
LM End	1.70	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.698415 °	38.698415 °	
			-121.631850 °	-121.631850 °	
DWR ID	DWR_RD1600_01_s_2015_626				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_626_20160304_00062.jpg



View of debris on the waterward side of the levee looking downstream. Spring 2015.

LM Start	1.70	Rating **	C	Issue No.	51
LM End	1.70	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.698471 °	38.698471 °	
			-121.631836 °	-121.631836 °	
DWR ID	DWR_RD1600_01_f_2015_51				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree has been removed.					

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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	1.72	Rating **	M	Issue No.	71
LM End	1.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.698628 °	38.698628 °
				-121.631694 °	-121.631694 °
DWR ID	DWR_RD1600_01_s_2016_71				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_71_20160407_00111.jpg



View of the ruts on the shoulder of the levee on the waterward side. Spring 2016.

LM Start	1.72	Rating **	A/W	Issue No.	31
LM End	1.72	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.698639 °	38.698639 °
				-121.631687 °	-121.631687 °
DWR ID	DWR_RD1600_01_s_2012_31				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_31_20160304_00028.jpg



A photo of a Elderberry bush in the area.

LM Start	1.72	Rating **	A/W	Issue No.	31 (cont)
LM End	1.72	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_31_20160304_00029.jpg



Revegetation site with the Elderberry Beetle. Photo taken spring 2012.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.01	Rating **	U	Issue No.	72
LM End	2.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.701605 °	38.701605 °
				-121.627954 °	-121.627954 °
DWR ID	DWR_RD1600_01_s_2016_72				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion seems to be caused by rain runoffs. Slope is graveled. Unsure if it is being used as a ramp.					

Photo 1 of 2 : SP_2016_RD1600_191_72_20160407_00113.jpg



Erosion is on the landward side of the levee about midway from the shoulder of the levee. Spring 2016.

LM Start	2.01	Rating **	U	Issue No.	72 (cont)
LM End	2.01	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_191_72_20160407_00114.jpg



Perspective view of the erosion on the landward side of the levee looking upstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.02	Rating **	M	Issue No.	52
LM End	2.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.701753 °	38.701753 °
				-121.627734 °	-121.627734 °
DWR ID	DWR_RD1600_01_f_2015_52				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_52_20160304_00044.jpg



View of the slope stability caused by vehicles on the waterward side of the levee looking upstream. Fall 2015.

LM Start	2.06	Rating **	M	Issue No.	53
LM End	2.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.702063 °	38.702063 °
				-121.627214 °	-121.627214 °
DWR ID	DWR_RD1600_01_f_2015_53				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_53_20160304_00045.jpg



View of the rodent hole on the waterward side 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.10	Rating **	M	Issue No.	55
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.702416 °	38.702416 °
				-121.626593 °	-121.626593 °
DWR ID	DWR_RD1600_01_f_2015_55				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_55_20160304_00047.jpg



View of the slope stability damaged by vehicles on the landward side of the levee. Fall 2015.

LM Start	2.17	Rating **	M	Issue No.	56
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.703025 °	38.703025 °
				-121.625605 °	-121.625605 °
DWR ID	DWR_RD1600_01_f_2015_56				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_56_20160304_00048.jpg



View of the sloughing on the landward side of the levee looking upstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.35	Rating **	A/W	Issue No.	35
LM End	2.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.704624 °	38.705152 °
				-121.623034 °	-121.622187 °
DWR ID	DWR_RD1600_01_s_2012_35				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_35_20160407_00116.jpg



Sign for revegetation site. Spring 2016.

LM Start	2.35	Rating **	A/W	Issue No.	35 (cont)
LM End	2.40	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_35_20160407_00115.jpg



View of the revegetation site on the waterward side of the levee looking upstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.81	Rating **	M	Issue No.	1204
LM End	2.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.709350 °	38.709350 °
				-121.616913 °	-121.616913 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15108 DS_ID:21467 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. Debris buildup on pier. Power cut to pump. FIELD_STRUCT_DESC: 16-inch pipe through levee 2-feet below crown. Walkway from berm to pump on pile structure in the stream. Siphon breaker on the landward slope. 12-inch PVC standpipe off LS toe. Originally included in 1955 O+M manual. FS Date: 6/18/2013					

Photo 1 of 2 : UCIP_SP_2016_15108_24826.jpg



Pump on metal platform off WS berm.

LM Start	2.81	Rating **	M	Issue No.	1204 (cont)
LM End	2.81	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_15108_24825.jpg



Debris buildup at metal platform waterline.

* 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.93	Rating **	M	Issue No.	1205
LM End	2.93	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.710497 °	38.710497 °
				-121.615381 °	-121.615381 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15110 DS_ID:21490 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned and should be removed from levee. FIELD_STRUCT_DESC: *Abandoned* 10-inch concrete pipe through levee 5.0 feet below crown. Pipe visible on LS slope. Originally included in the 1955 O&M manual. FS Date: 6/18/2013					

Photo 1 of 2 : UCIP_SP_2016_15110_24828.jpg



Pipe visible on LS slope.

LM Start	2.93	Rating **	M	Issue No.	1205 (cont)
LM End	2.93	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_15110_24827.jpg



Pipe visible on LS 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	3.04	Rating **	A/W	Issue No.	37
LM End	3.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.711597 °	38.711597 °	
			-121.613890 °	-121.613890 °	
DWR ID	DWR_RD1600_01_s_2012_37				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.06	Rating **	C	Issue No.	64
LM End	3.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.711869 °	38.711869 °	
			-121.613635 °	-121.613635 °	
DWR ID	DWR_RD1600_01_f_2015_64				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Issue has been corrected.					

No Photos

LM Start	3.57	Rating **	M	Issue No.	627
LM End	3.57	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.717717 °	38.717717 °	
			-121.608015 °	-121.608015 °	
DWR ID	DWR_RD1600_01_s_2014_627				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_627_20160304_00063.jpg



Metal pipe and wood debris is on the waterside berm. Spring 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	3.57	Rating **	M	Issue No.	627 (cont)
LM End	3.57	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.717717 °	38.717717 °
				-121.608015 °	-121.608015 °
DWR ID	DWR_RD1600_01_s_2014_627				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 2 of 2 : SP_2016_RD1600_191_627_20160304_00064.jpg



View of the metal pipe and wood debris on the berm of the waterward side of the levee. Fall 2015.

LM Start	3.58	Rating **	M	Issue No.	3
LM End	3.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.717770 °	38.721351 °
				-121.607423 °	-121.606414 °
DWR ID	DWR_RD1600_01_s_2016_3				
Comment Code					
Inspector Comment					
1997 - Steep high bank. 2005 - Some small pockets in the low toe near the waterline. 2006 - Minor slope clearing. 2010 - Minor new erosion. 2011 - Multiple trees have fallen since last year. Some other trees look ready to fall. Significant new erosion since last year. 2012 - Minor new erosion. 2013 - Minor new erosion. 2015: New minor erosion at toe. [2015 Site ID: SAC_74-4_R]					

Photo 1 of 1 : SP_2016_RD1600_191_3_20160304_00003.jpg



USACE 2013 Photo #1

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	3.59	Rating **	M	Issue No.	628
LM End	3.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.718080 °	38.718080 °
				-121.607815 °	-121.607815 °
DWR ID	DWR_RD1600_01_s_2014_628				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_628_20160407_00117.jpg



View of the concrete pile on the berm of the waterward side of the levee. Spring 2016.

LM Start	3.59	Rating **	M	Issue No.	628 (cont)
LM End	3.59	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_628_20160407_00118.jpg



Perspective view of the concrete pile looking upstream. Spring 2016.

LM Start	3.76	Rating **	M	Issue No.	2
LM End	3.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.720385 °	38.720385 °
				-121.606953 °	-121.606953 °
DWR ID	DWR_RD1600_01_s_2013_2				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Trees have fallen over and created bank erosion.					

Photo 1 of 2 : SP_2016_RD1600_191_2_20160304_00002.jpg



Trees have fallen and the water has created the erosion into the berm. Spring 2013

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	3.76	Rating **	M	Issue No.	2 (cont)
LM End	3.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.720385 °	38.720385 °
				-121.606953 °	-121.606953 °
DWR ID	DWR_RD1600_01_s_2013_2				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Trees have fallen over and created bank erosion.					

Photo 2 of 2 : SP_2016_RD1600_191_2_20160407_00119.jpg



View of the erosion from the top of the levee. Spring 2016.

LM Start	3.76	Rating **	U	Issue No.	73
LM End	3.93	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			38.720407 °	38.722850 °
				-121.606953 °	-121.606899 °
DWR ID	DWR_RD1600_01_s_2016_73				
Comment Code					
Inspector Comment					
There appears to be a ponding issue and will have to be monitored during next inspection.					

Photo 1 of 2 : SP_2016_RD1600_191_73_20160407_00120.jpg



View of the seepage by the road looking upstream. Spring 2016.

LM Start	3.76	Rating **	U	Issue No.	73 (cont)
LM End	3.93	Issue Type +	Ob	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_191_73_20160407_00121.jpg



View taken from the crown of the levee of the seepage. Spring 2016.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	3.83	Rating **	C	Issue No.	66
LM End	3.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.721456 °	38.721456 °	
			-121.606855 °	-121.606855 °	
DWR ID	DWR_RD1600_01_f_2015_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Issue has been corrected.					

No Photos

LM Start	3.89	Rating **	M	Issue No.	67
LM End	3.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.722300 °	38.722300 °	
			-121.606769 °	-121.606769 °	
DWR ID	DWR_RD1600_01_f_2015_67				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_67_20160304_00053.jpg



View of the shoulder damaged by vehicles on the waterward side of the levee looking upstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.34	Rating **	M	Issue No.	8
LM End	4.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.728684 °	38.736110 °
				-121.605844 °	-121.604153 °
DWR ID	DWR_RD1600_01_s_2016_8				
Comment Code					
Inspector Comment					
1997 - Very steep bank. 2005 - Lots of small trees down along the bank at the upstream end. 2006 - Minor new erosion, but slow. 2010 - Almost all of the roots are exposed on the trees, appears ready to fall. 2011 - New erosion and tree popouts. 2012 - Site has become overgrown with vegetation, making it hard to observe. 2015: Dense vegetation made observation difficult. [2015 Site ID: SAC_75-3_R]					

Photo 1 of 1 : SP_2016_RD1600_191_8_20160304_00010.jpg



USACE 2013 Photo #1

LM Start	4.51	Rating **	M	Issue No.	1206
LM End	4.51	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.731143 °	38.731143 °
				-121.605825 °	-121.605825 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15125 DS_ID:21470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumphouse abandoned with deep pit open. Safety issue. If plant is abandoned it should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee 21.4 feet below the crown. 16-inch pipe ties into 24-inch at WS slope. Slant pump on metal platform and gate valve on water side berm. Gate valve in pump house off the landward side. Two power poles at the toe of the landward slope. FS Date: 6/18/2013 7:36:00 AM					

Photo 1 of 2 : UCIP_SP_2016_15125_24846.jpg



Pumphouse/distribution box off LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.51	Rating **	M	Issue No.	1206 (cont)
LM End	4.51	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.731143 °	38.731143 °
				-121.605825 °	-121.605825 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15125 DS_ID:21470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumphouse abandoned with deep pit open. Safety issue. If plant is abandoned it should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee 21.4 feet below the crown. 16-inch pipe ties into 24-inch at WS slope. Slant pump on metal platform and gate valve on water side berm. Gate valve in pump house off the landward side. Two power poles at the toe of the landward slope. FS Date: 6/18/2013 7:36:00 AM					

Photo 2 of 2 : UCIP_SP_2016_15125_24845.jpg



Slant pump on metal pier on WS berm.

LM Start	4.52	Rating **	M	Issue No.	1212
LM End	4.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.731280 °	38.731280 °
				-121.605825 °	-121.605825 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41563 DS_ID:21471 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be removed from slope. FIELD_STRUCT_DESC: *Abandoned* 12-inch pipe through the levee 5.5 feet below the crown. Grouted in place 1957. FS Date: 6/18/2013					

Photo 1 of 2 : UCIP_SP_2016_41563_27474.jpg



Pipe and remnants of grouted pipe on LS 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.52	Rating **	M	Issue No.	1212 (cont)
LM End	4.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.731280 °	38.731280 °
				-121.605825 °	-121.605825 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41563 DS_ID:21471 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be removed from slope. FIELD_STRUCT_DESC: *Abandoned* 12-inch pipe through the levee 5.5 feet below the crown. Grouted in place 1957. FS Date: 6/18/2013					

Photo 2 of 2 : UCIP_SP_2016_41563_27473.jpg



Pipe and remnants of grouted pipe on LS slope.

LM Start	4.66	Rating **	M	Issue No.	41
LM End	4.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.733294 °	38.733294 °
				-121.605484 °	-121.605484 °
DWR ID	DWR_RD1600_01_f_2015_41				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_41_20160304_00036.jpg



View of the bulge at the toe of the levee on the landward side looking downstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.75	Rating **	M	Issue No.	1193
LM End	4.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.734557 °	38.734557 °	
			-121.605133 °	-121.605133 °	
DWR ID	DWR_RD1600_01_s_2015_1193				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.76	Rating **	M	Issue No.	1194
LM End	4.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.734760 °	38.734760 °	
			-121.605008 °	-121.605008 °	
DWR ID	DWR_RD1600_01_s_2015_1194				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.77	Rating **	M	Issue No.	141
LM End	4.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.734840 °	38.734840 °	
			-121.605026 °	-121.605026 °	
DWR ID	DWR_RD1600_01_f_2013_141				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_141_20160304_00058.jpg



The erosion at the shoulder of the levee could be slope instability. Fall 2013

* 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.77	Rating **	M	Issue No.	141 (cont)
LM End	4.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.734840 °	38.734840 °
				-121.605026 °	-121.605026 °
DWR ID	DWR_RD1600_01_f_2013_141				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 2 of 2 : SP_2016_RD1600_191_141_20160304_00059.jpg



View of the erosion on the landward side of the levee looking upstream. Fall 2015.

LM Start	4.78	Rating **	M	Issue No.	1195
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.734972 °	38.734972 °
				-121.604953 °	-121.604953 °
DWR ID	DWR_RD1600_01_s_2015_1195				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.80	Rating **	U	Issue No.	1196
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.735312 °	38.735312 °
				-121.604890 °	-121.604890 °
DWR ID	DWR_RD1600_01_s_2015_1196				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.85	Rating **	M	Issue No.	1197
LM End	4.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736028 °	38.736028 °
				-121.604697 °	-121.604697 °
DWR ID	DWR_RD1600_01_s_2015_1197				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.87	Rating **	U	Issue No.	1207
LM End	4.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.736299 °	38.736299 °
				-121.604582 °	-121.604582 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15130 DS_ID:21487 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: No pump on pier and pipe open on both ends without a closure device. FIELD_STRUCT_DESC: 18-inch steel pipe through levee 6.7-feet below crown. Pump on wooden pier off waterward side. Air vents on WS slope and meter at outlet on LS toe. 6'X14' concrete distribution box off LS toe. 2-inch galvanized iron electrical conduit through the levee at same location. Originally included in the 1955 O&M manual. FS Date: 6/18/2013					

Photo 1 of 2 : UCIP_SP_2016_15130_24857.jpg



Pipe under wooden pier on WS 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.87	Rating **	U	Issue No.	1207 (cont)
LM End	4.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.736299 °	38.736299 °
				-121.604582 °	-121.604582 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15130 DS_ID:21487 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: No pump on pier and pipe open on both ends without a closure device. FIELD_STRUCT_DESC: 18-inch steel pipe through levee 6.7-feet below crown. Pump on wooden pier off waterward side. Air vents on WS slope and meter at outlet on LS toe. 6'X14' concrete distribution box off LS toe. 2-inch galvanized iron electrical conduit through the levee at same location. Originally included in the 1955 O&M manual. FS Date: 6/18/2013					

Photo 2 of 2 : UCIP_SP_2016_15130_24856.jpg



2-inch galvanized iron electrical conduit at under pier.

LM Start	5.01	Rating **	C	Issue No.	42
LM End	5.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.738242 °	38.738242 °
				-121.603789 °	-121.603789 °
DWR ID	DWR_RD1600_01_f_2015_42				
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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	5.26	Rating **	C	Issue No.	43
LM End	5.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.741649 °	38.741649 °	
			-121.602500 °	-121.602500 °	
DWR ID	DWR_RD1600_01_f_2015_43				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	5.40	Rating **	M	Issue No.	44
LM End	5.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.743585 °	38.743585 °	
			-121.601447 °	-121.601447 °	
DWR ID	DWR_RD1600_01_s_2016_44				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	5.41	Rating **	A/W	Issue No.	13
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.743632 °	38.743632 °	
			-121.601173 °	-121.601173 °	
DWR ID	DWR_RD1600_01_s_2012_13				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	5.44	Rating **	A/W	Issue No.	19
LM End	5.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.744118 °	38.748210 °	
			-121.601104 °	-121.598025 °	
DWR ID	DWR_RD1600_01_s_2012_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Levee district had us add this because of the loss of the berm over years of water flows. Erosion is at the waters edge. Walnut trees are close to edge now.					

No Photos

LM Start	5.56	Rating **	C	Issue No.	45
LM End	5.56	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.745605 °	38.745605 °	
			-121.599994 °	-121.599994 °	
DWR ID	DWR_RD1600_01_f_2015_45				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile has been removed.					

No Photos

LM Start	5.57	Rating **	U	Issue No.	46
LM End	5.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.745677 °	38.745677 °	
			-121.599944 °	-121.599944 °	
DWR ID	DWR_RD1600_01_f_2015_46				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_46_20160304_00040.jpg



View of the animal holes on the landward side 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	5.81	Rating **	C	Issue No.	1198
LM End	5.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.748648 °	38.748648 °
				-121.597645 °	-121.597645 °
DWR ID	DWR_RD1600_01_s_2015_1198				
Comment Code					
DE : Debris					
Inspector Comment					
Abandoned pipes have been removed.					

No Photos

LM Start	6.04	Rating **	C	Issue No.	54
LM End	6.04	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.751747 °	38.751747 °
				-121.595886 °	-121.595886 °
DWR ID	DWR_RD1600_01_f_2015_54				
Comment Code					
PR : Prunings					
Inspector Comment					
Fallen tree branch has been removed.					

No Photos

LM Start	6.09	Rating **	M	Issue No.	58
LM End	6.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.752358 °	38.752358 °
				-121.595608 °	-121.595608 °
DWR ID	DWR_RD1600_01_f_2015_58				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_58_20160304_00049.jpg



View of the slope stability on the waterward side of the levee looking upstream. Fall 2015.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.19	Rating **	U	Issue No.	1208
LM End	6.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.753820°	38.753820°
				-121.595012°	-121.595012°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15207 DS_ID:21476 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe is abandoned and open on both ends. It should be abandoned properly. FIELD_STRUCT_DESC: 18-inch pipe through levee 4.5 feet below crown. Walkway from berm to pump on pile structure in stream. Overhead power line crosses levee, service pole on the waterward slope. 6'X6' Concrete distribution box at the toe of the landward slope. Originally included in the 1955 O+M manual at RM 77. FS Date: 6/20/2013					

Photo 1 of 2 : UCIP_SP_2016_15207_25011.jpg



6'X6' concrete distribution box on LS toe.

LM Start	6.19	Rating **	U	Issue No.	1208 (cont)
LM End	6.19	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_15207_25010.jpg



Pipe on 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.30	Rating **	A/W	Issue No.	9
LM End	6.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.755246 °	38.756186 °
				-121.594206 °	-121.594024 °
DWR ID	DWR_RD1600_01_s_2016_9				
Comment Code					
Inspector Comment					
2011 - Large vertical eroded face from a rotational failure just below pump. 2015: Does not meet criterial. [2015 Site ID: SAC_77-0_R]					

Photo 1 of 1 : SP_2016_RD1600_191_9_20160304_00011.jpg



USACE 2013 Photo #1

LM Start	6.39	Rating **	M	Issue No.	1199
LM End	6.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.756612 °	38.756612 °
				-121.594370 °	-121.594370 °
DWR ID	DWR_RD1600_01_s_2015_1199				
Comment Code					
Inspector Comment					
The erosion is caused by the water coming from the siphon breaker.					

Photo 1 of 1 : SP_2016_RD1600_191_1199_20160304_00071.jpg



View of erosion and pipe on the landward side of the levee looking upstream. Spring 2015.

LM Start	6.60	Rating **	M	Issue No.	631
LM End	6.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.759633 °	38.760013 °
				-121.594128 °	-121.594148 °
DWR ID	DWR_RD1600_01_s_2014_631				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_631_20160304_00066.jpg



The tall brush and vegetation blocks visibility. Spring 2014

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.60	Rating **	M	Issue No.	631 (cont)
LM End	6.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.759633 °	38.760013 °
				-121.594128 °	-121.594148 °
DWR ID	DWR_RD1600_01_s_2014_631				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 2 of 2 : SP_2016_RD1600_191_631_20160304_00067.jpg



View of the brush and vegetation on the landward side of the levee. Fall 2015.

LM Start	6.95	Rating **	M	Issue No.	6
LM End	6.98	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.764801 °	38.765219 °
				-121.594926 °	-121.595049 °
DWR ID	DWR_RD1600_01_s_2016_6				
Comment Code					
Inspector Comment					
2006 - Eddy scour off end of rock causing erosion and scour hole near levee. Sandy silt bank with rock on upstream end. 2010 - Trees are leaning more, minor new erosion. 2011 - Many of the tree roots have scoured out and trees look ready to fall. 2015: No observed changes. [2015 Site ID: SAC_77-7_R]					

Photo 1 of 1 : SP_2016_RD1600_191_6_20160304_00008.jpg



USACE 2013 Photo #1

LM Start	6.97	Rating **	M	Issue No.	27
LM End	6.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764974 °	38.764974 °
				-121.595533 °	-121.595533 °
DWR ID	DWR_RD1600_01_s_2012_27				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_27_20160304_00022.jpg



The erosion appears to be moving closer to the shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.97	Rating **	M	Issue No.	27 (cont)
LM End	6.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764974 °	38.764974 °
				-121.595533 °	-121.595533 °
DWR ID	DWR_RD1600_01_s_2012_27				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 2 of 2 : SP_2016_RD1600_191_27_20160304_00023.jpg



The erosion seems to have been fixed. There still seems to be some erosion on the landward side of the levee looking downstream. Fall 2015.

LM Start	6.97	Rating **	M	Issue No.	30
LM End	6.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764980 °	38.764980 °
				-121.595513 °	-121.595513 °
DWR ID	DWR_RD1600_01_s_2013_30				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_30_20160304_00026.jpg



Erosion is into the berm area and needs to be monitored. Spring 2013

LM Start	6.97	Rating **	M	Issue No.	30 (cont)
LM End	6.97	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_30_20160304_00027.jpg



View of the erosion into the berm area that needs to be monitored. Fall 2015.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	7.10	Rating **	M	Issue No.	20
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.766691 °	38.766691 °	
			-121.596300 °	-121.596300 °	
DWR ID	DWR_RD1600_01_s_2012_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 4 : SP_2016_RD1600_191_20_20160304_00013.jpg



This another view of the site.

LM Start	7.10	Rating **	M	Issue No.	20 (cont)
LM End	7.10	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP_2016_RD1600_191_20_20160304_00014.jpg



View of the erosion in the berm area on the waterward side looking upstream. Fall 2015.

LM Start	7.10	Rating **	M	Issue No.	20 (cont)
LM End	7.10	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP_2016_RD1600_191_20_20160304_00015.jpg



The erosion is eroding away at the berm area.

* 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	7.10	Rating **	M	Issue No.	20 (cont)
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.766691 °	38.766691 °
				-121.596300 °	-121.596300 °
DWR ID	DWR_RD1600_01_s_2012_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 4 of 4 : SP_2016_RD1600_191_20_20160304_00016.jpg



Looking at the erosion site on the berm. Fall 2015.

LM Start	7.21	Rating **	M	Issue No.	61
LM End	7.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768094 °	38.768094 °
				-121.597075 °	-121.597075 °
DWR ID	DWR_RD1600_01_f_2015_61				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_61_20160304_00050.jpg



View of the erosion on the landward side of the levee looking downstream. Fall 2015.

LM Start	7.23	Rating **	M	Issue No.	21
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768409 °	38.768409 °
				-121.597213 °	-121.597213 °
DWR ID	DWR_RD1600_01_s_2012_21				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 3 : SP_2016_RD1600_191_21_20160304_00017.jpg



The erosion is eroding away the berm area.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	7.23	Rating **	M	Issue No.	21 (cont)
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768409 °	38.768409 °
				-121.597213 °	-121.597213 °
DWR ID	DWR_RD1600_01_s_2012_21				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 2 of 3 : SP_2016_RD1600_191_21_20160304_00018.jpg



The bank is eroding away and has become very steep.

LM Start	7.23	Rating **	M	Issue No.	21 (cont)
LM End	7.23	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2016_RD1600_191_21_20160304_00019.jpg



View of the erosion along the waterward berm 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	7.56	Rating **	U	Issue No.	1210
LM End	7.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.772560 °	38.772560 °
				-121.600153 °	-121.600153 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15264 DS_ID:21496 EP_NO: 1596 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe leaking and causing erosion on LS slope. Likely this pipe has severe internal corrosion and likely needs to be replaced. No 24-inch pipes found at this location...only a 30-inch. FIELD_STRUCT_DESC: 30-inch riveted steel irrigation pipe through the levee 5.5 feet below the crown. Gate valve in pump house on the waterward slope. Slant pump on structure on the bank. Walkway from the pump house to the structure. 2-inch galvanized iron electrical conduit at same location (Permit No. 1596, 1959). FS Date: 6/20/2013					

Photo 1 of 2 : UCIP_SP_2016_15264_25075.jpg



Pipe on LS shoulder.

LM Start	7.56	Rating **	U	Issue No.	1210 (cont)
LM End	7.56	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_15264_25074.jpg



Pipe and vent on LS 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	8.03	Rating **	M	Issue No.	1209
LM End	8.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.777799 °	38.777799 °
				-121.605763 °	-121.605763 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16310 DS_ID:21480 EP_NO: 7339 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine disposition of pipe. If abandoned, it should be done so properly. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 3.8 feet below crown. Steel plate welded on the waterward end. Pipe not visible on either slope. Pilons in river at WS toe and a 4-foot diameter steel standpipe on the LS toe (Permit No. 7339, 1977) Seepage area at toe of the landward slope. FS Date: 6/20/2013					

Photo 1 of 1 : UCIP_SP_2016_16310_27485.jpg



4-foot diameter steel standpipe at LS toe, may be indicator of pipe location.

LM Start	8.18	Rating **	M	Issue No.	63
LM End	8.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.778922 °	38.778922 °
				-121.608075 °	-121.608075 °
DWR ID	DWR_RD1600_01_f_2015_63				
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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	8.18	Rating **	M	Issue No.	48
LM End	8.18	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.778963 °	38.778963 °	
			-121.608106 °	-121.608106 °	
DWR ID	DWR_RD1600_01_s_2016_48				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_48_20160407_00122.jpg



View of the beehives on the waterward side of the levee looking upstream. Spring 2016.

LM Start	8.21	Rating **	M	Issue No.	1200
LM End	8.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.778938 °	38.778938 °	
			-121.608595 °	-121.608595 °	
DWR ID	DWR_RD1600_01_s_2015_1200				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	8.88	Rating **	A/W	Issue No.	634
LM End	8.88	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.782002 °	38.782002 °	
			-121.620403 °	-121.620403 °	
DWR ID	DWR_RD1600_01_s_2014_634				
Comment Code					
EQ : Equipment					
Inspector Comment					
Most of the equipment has been removed. Continue to monitor sight for more placement of equipment.					

Photo 1 of 2 : SP_2016_RD1600_191_634_20160304_00068.jpg



Irrigation pipe is being stored on the landside. Spring 2014

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	8.88	Rating **	A/W	Issue No.	634 (cont)
LM End	8.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.782002 °	38.782002 °
				-121.620403 °	-121.620403 °
DWR ID	DWR_RD1600_01_s_2014_634				
Comment Code					
EQ : Equipment					
Inspector Comment					
Most of the equipment has been removed. Continue to monitor sight for more placement of equipment.					

Photo 2 of 2 : SP_2016_RD1600_191_634_20160304_00069.jpg



View of the equipment on the landward side of the levee looking upstream. Fall 2015.

LM Start	9.59	Rating **	M	Issue No.	1201
LM End	9.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.776493 °	38.776493 °
				-121.629160 °	-121.629160 °
DWR ID	DWR_RD1600_01_s_2015_1201				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	10.38	Rating **	M	Issue No.	1202
LM End	10.38	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.766363 °	38.766363 °
				-121.634317 °	-121.634317 °
DWR ID	DWR_RD1600_01_s_2015_1202				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_1202_20160304_00072.jpg



View of debris on the waterward side of the levee looking upstream. Spring 2015.

LM Start	10.38	Rating **	M	Issue No.	69
LM End	10.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.766293 °	38.766293 °
				-121.634349 °	-121.634349 °
DWR ID	DWR_RD1600_01_f_2015_69				
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**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles
Unit No. 02 Yolo Bypass	Left	4.23

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Jai Lor			
Accompanied By				

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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	0.00	Rating **	M	Issue No.	4
LM End	4.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.736225 °	38.676787 °	
			-121.633653 °	-121.643178 °	
DWR ID	DWR_RD1600_02_f_2015_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_192_4_20160407_00012.jpg



View of the vegetation on the landward side of the levee looking downstream. Spring 2016.

LM Start	0.00	Rating **	M	Issue No.	5
LM End	4.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.736225 °	38.676785 °	
			-121.633652 °	-121.643179 °	
DWR ID	DWR_RD1600_02_f_2015_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_192_5_20160407_00013.jpg



View of the vegetation on the waterward side of the levee looking downstream. 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	1.57	Rating **	M	Issue No.	8
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.713733 °	38.713733 °
				-121.635872 °	-121.635872 °
DWR ID	DWR_RD1600_02_f_2015_8				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_192_8_20160304_00003.jpg



View of the slope stability on the waterward side of the levee looking downstream. Fall 2015.

LM Start	1.79	Rating **	M	Issue No.	14
LM End	2.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.710763 °	38.707116 °
				-121.637147 °	-121.638722 °
DWR ID	DWR_RD1600_02_s_2012_14				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 3 : SP_2016_RD1600_192_14_20160304_00005.jpg



A closer view of the wave wash damage along the bypass.

LM Start	1.79	Rating **	M	Issue No.	14 (cont)
LM End	2.05	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2016_RD1600_192_14_20160304_00006.jpg



Wave wash damage along the slope the cut is 1'-2'.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	1.79	Rating **	M	Issue No.	14 (cont)
LM End	2.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.710763 °	38.707116 °
				-121.637147 °	-121.638722 °
DWR ID	DWR_RD1600_02_s_2012_14				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 3 of 3 : SP_2016_RD1600_192_14_20160304_00007.jpg



View of the erosion on the waterward side of the levee looking downstream. Fall 2015.

LM Start	2.16	Rating **	M	Issue No.	15
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.705614 °	38.704052 °
				-121.639357 °	-121.640016 °
DWR ID	DWR_RD1600_02_s_2012_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This is wave wash damage caused by last high water.					

Photo 1 of 2 : SP_2016_RD1600_192_15_20160304_00008.jpg



Looking upstream a deeper cut of 2'-3' damage.

LM Start	2.16	Rating **	M	Issue No.	15 (cont)
LM End	2.27	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_192_15_20160304_00009.jpg



This is wave wash damage along the toe of the levee looking downstream.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	2.40	Rating **	M	Issue No.	2
LM End	2.40	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.702366 °	38.702366 °	
			-121.640732 °	-121.640732 °	
DWR ID	DWR_RD1600_02_s_2016_2				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_192_2_20160407_00014.jpg



A tree has fallen on the landward side of the levee. Spring 2016.

LM Start	2.40	Rating **	M	Issue No.	2 (cont)
LM End	2.40	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_192_2_20160407_00016.jpg



View of the fallen tree on the landward side of the levee looking downstream. Spring 2016.

LM Start	2.77	Rating **	M	Issue No.	3
LM End	2.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.697266 °	38.697266 °	
			-121.642952 °	-121.642952 °	
DWR ID	DWR_RD1600_02_s_2016_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	3.41	Rating **	M	Issue No.	300
LM End	3.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.688243 °	38.688243 °
				-121.645010 °	-121.645010 °
DWR ID	DWR_RD1600_02_s_2015_300				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.53	Rating **	M	Issue No.	299
LM End	3.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.686436 °	38.686436 °
				-121.644799 °	-121.644799 °
DWR ID	DWR_RD1600_02_s_2015_299				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	3.71	Rating **	U	Issue No.	301
LM End	3.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.683971 °	38.683971 °
				-121.644522 °	-121.644522 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16308 DS_ID:21501 EP_NO: 10944 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to install gasline markers on levee. FIELD_STRUCT_DESC: 8.625-inch steel gas line through levee 2.0 feet below crown (Permit No. 10944, 1976). FS Date: 6/21/2013					

Photo 1 of 2 : UCIP_SP_2016_16308_27478.jpg



PG&E marker flag on Crown.

LM Start	3.71	Rating **	U	Issue No.	301 (cont)
LM End	3.71	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_16308_27477.jpg



Carsonite gasline marker visible approximately 1,000-feet east of levee 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 - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	4.19	Rating **	M	Issue No.	6
LM End	4.19	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.677121 °	38.677121 °	
			-121.643466 °	-121.643466 °	
DWR ID	DWR_RD1600_02_s_2016_6				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_192_6_20160407_00017.jpg



View of the trees on the landward side of the levee looking downstream. 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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