

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	121
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD0524_01_s _ 2012_121				
Action/Comments					
Inspector Comments: The LMA does not have a copy of the O&M Manual on file.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	123		
LM End	0.00	Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_RD0524_01_s _ 2012_123						
Action/Comments							
Inspector Comments: No recent training.							

No Photos

LM Start	0.00	Rating **	M	Issue No.	138
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD0524_01_s _ 2013_138				
Action/Comments					
Inspector Comments: The LMA does not appear to have emergency supplies or equipment.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.19	Rating **	U	Issue No.	129
LM End	0.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939085 °	37.939085 °
				-121.343917 °	-121.343917 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: The erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of water-ward slope. [2015 Site ID:RD0524U01RM40.85]					

Photo 1 of 2 : SJR2015_RD0524U01RM40.85_2.JPG



Front view of the erosion.

LM Start	0.19	Rating **	U	Issue No.	129 (cont)
LM End	0.19	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM40.85_5.JPG



Close view of the erosion.

LM Start	0.21	Rating **	M	Issue No.	3
LM End	0.21	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.938890 °	37.938890 °
				-121.343657 °	-121.343657 °
DWR ID	DWR_RD0524_01_s_2012_3				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: No change in status.					

Photo 1 of 3 : FA_2015_RD0524_107_3_20150914_00006.jpg



Looking west at 3" depression on levee crown. (Spring 2012)

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

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Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.21	Rating **	M	Issue No.	3 (cont)
LM End	0.21	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.938890 °	37.938890 °
				-121.343657 °	-121.343657 °
DWR ID	DWR_RD0524_01_s _ 2012_3				
Action/Comments					
Repair depressions or ruts in the crown or slope.					
Inspector Comments: No change in status.					

Photo 2 of 3 : FA_2015_RD0524_107_3_20150914_00007.jpg



Looking west at depression on levee crown near waterward shoulder.

Photo 3 of 3 : FA_2015_RD0524_107_3_20150914_00008.jpg



Looking east at 3" depression on levee crown. (Spring 2012)

LM Start	0.27	Rating **	U	Issue No.	179
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.938438 °	37.938438 °
				-121.342883 °	-121.342883 °
DWR ID	DWR_RD0524_01_s _ 2014_179				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 2 : FA_2015_RD0524_107_179_20150914_00169.jpg



Looking north at untrimmed tree on waterward slope. (Spring 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.27	Rating **	U	Issue No.	179 (cont)
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.938438 °	37.938438 °
				-121.342883 °	-121.342883 °
DWR ID	DWR_RD0524_01_s_2014_179				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 2 of 2 : FA_2015_RD0524_107_179_20150914_00170.jpg



Looking south at untrimmed tree on waterward slope. (Fall 2014)

LM Start	0.30	Rating **	U	Issue No.	174
LM End	0.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.938382 °	37.938382 °
				-121.342352 °	-121.342352 °
DWR ID	DWR_RD0524_01_f_2014_174				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Several rodent holes present at this site.					

Photo 1 of 3 : FA_2015_RD0524_107_174_20151023_00240.jpg



Looking southeast at several rodent holes on waterward slope Fall 2015.

LM Start	0.30	Rating **	U	Issue No.	174 (cont)
LM End	0.30	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2015_RD0524_107_174_20150914_00164.jpg



Looking west at several rodent holes on waterward shoulder. (Spring 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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Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.30	Rating **	U	Issue No.	174 (cont)	
LM End	0.30	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.938382 °	37.938382 °	
				-121.342352 °	-121.342352 °	
DWR ID	DWR_RD0524_01_f_2014_174					
Action/Comments						
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comments: Several rodent holes present at this site.						

Photo 3 of 3 : FA_2015_RD0524_107_174_20150914_00165.jpg



Looking southeast at several rodent holes on waterward slope.

LM Start	0.34	Rating **	M	Issue No.	180
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938461 °	37.938461 °
				-121.341626 °	-121.341626 °
DWR ID	DWR_RD0524_01_s_2014_180				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is located along the lower level of waterward slope.					

Photo 1 of 2 : FA_2015_RD0524_107_180_20150914_00171.jpg



Looking southeast at erosion on waterward toe.

LM Start	0.34	Rating **	M	Issue No.	180 (cont)
LM End	0.34	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0524_107_180_20150914_00172.jpg



Looking northeast at erosion on waterward toe.

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.40	Rating **	U	Issue No.	131
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.938870 °	37.938870 °
				-121.340460 °	-121.340460 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 8/7/2012: The erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation. [2015 Site ID:RD0524U01RM40.99]					

Photo 1 of 2 : SJR2015_RD0524U01RM40.99_1.jpg



Front view of the erosion site. Note the vegetation at the levee toe and on the lower slope.

LM Start	0.40	Rating **	U	Issue No.	131 (cont)
LM End	0.40	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM40.99_5.jpg



Close view of the erosion.

LM Start	0.41	Rating **	M	Issue No.	170
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938628 °	37.938688 °
				-121.340385 °	-121.339627 °
DWR ID	DWR_RD0524_01_s_2015_170				
Action/Comments					
Repair slope instability.					
Inspector Comments: Several slope instabilites within this reach.					

Photo 1 of 2 : FA_2015_RD0524_107_170_20150914_00158.jpg



Looking south at slope damage on waterward 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.41	Rating **	M	Issue No.	170 (cont)
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938628 °	37.938688 °
				-121.340385 °	-121.339627 °
DWR ID	DWR_RD0524_01_s_2015_170				
Action/Comments					
Repair slope instability.					
Inspector Comments: Several slope instabilites within this reach.					

Photo 2 of 2 : FA_2015_RD0524_107_170_20150914_00159.jpg



Looking west at waterward slope erosion.

LM Start	0.62	Rating **	U	Issue No.	11
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.938278 °	37.938247 °
				-121.336524 °	-121.336503 °
DWR ID	DWR_RD0524_01_s_2012_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

Photo 1 of 4 : FA_2015_RD0524_107_11_20151023_00241.jpg



Looking south at bamboo on waterside slope. (Fall 2015)

LM Start	0.62	Rating **	U	Issue No.	11 (cont)
LM End	0.63	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2015_RD0524_107_11_20150914_00014.jpg



Looking south at dying bamboo on waterward slope. (Spring 2013)

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.62	Rating **	U	Issue No.	11 (cont)
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.938278 °	37.938247 °
				-121.336524 °	-121.336503 °
DWR ID	DWR_RD0524_01_s _ 2012_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

LM Start	0.62	Rating **	U	Issue No.	11 (cont)
LM End	0.63	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2015_RD0524_107_11_20150914_00013.jpg



Looking southeast at bamboo on waterside slope. (Spring 2012)

Photo 4 of 4 : FA_2015_RD0524_107_11_20150914_00015.jpg



Looking south at bamboo on waterside slope. (Fall Inspection 2012)

LM Start	0.63	Rating **	U	Issue No.	10
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938247 °	37.938247 °
				-121.336503 °	-121.336503 °
DWR ID	DWR_RD0524_01_f _ 2015_10				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 1 : FA_2015_RD0524_107_10_20150914_00012.jpg



Looking east at waterside erosion appears to be caused by runoff.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.64	Rating **	M	Issue No.	13
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938105 °	37.938023 °
				-121.336288 °	-121.336173 °
DWR ID	DWR_RD0524_01_s_2012_13				
Action/Comments					
Repair slope instability. Inspector Comments: Depression extend from shoulder to mid levee slope two site with this section.					

LM Start	0.64	Rating **	M	Issue No.	13 (cont)
LM End	0.65	Issue Type +	Ma	Location *	WS

LM Start	0.64	Rating **	M	Issue No.	13 (cont)
LM End	0.65	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : FA_2015_RD0524_107_13_20151023_00243.jpg



Looking southeast at depression on waterward shoulder fall 2015

Photo 2 of 4 : FA_2015_RD0524_107_13_20150914_00018.jpg



Looking south at erosion on waterside shoulder.

Photo 3 of 4 : FA_2015_RD0524_107_13_20150914_00017.jpg



View of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.64	Rating **	M	Issue No.	13 (cont)	
LM End	0.65	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.938105 °		37.938023 °
				-121.336288 °		-121.336173 °
DWR ID	DWR_RD0524_01_s_2012_13					
Action/Comments						
Repair slope instability. Inspector Comments: Depression extend from shoulder to mid levee slope two site with this section.						

Photo 4 of 4 : FA_2015_RD0524_107_13_20150914_00019.jpg



Update view of the erosion site.

LM Start	0.67	Rating **	U	Issue No.	14
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937808 °	37.937808 °
				-121.335913 °	-121.335913 °
DWR ID	DWR_RD0524_01_s_2012_14				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

Photo 1 of 3 : FA_2015_RD0524_107_14_20151023_00244.jpg



Looking south at dying bamboo on waterward slope. Fall 2015

LM Start	0.67	Rating **	U	Issue No.	14 (cont)
LM End	0.67	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2015_RD0524_107_14_20150914_00021.jpg



Looking south at dying bamboo on waterward slope. (Spring 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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Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.67	Rating **	U	Issue No.	14 (cont)
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937808 °	37.937808 °
				-121.335913 °	-121.335913 °
DWR ID	DWR_RD0524_01_s_2012_14				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

Photo 3 of 3 : FA_2015_RD0524_107_14_20150914_00022.jpg



Looking south at bamboo on waterside slope. (Fall 2012)

LM Start	0.71	Rating **	M	Issue No.	132
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.937222 °	37.937222 °
				-121.335277 °	-121.335277 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: The ersoion site is immediatley downstream of the RR bridge. [2015 Site ID:RD0524U01RM41.36]					

Photo 1 of 2 : SJR2015_RD0524U01RM41.36_4.JPG



Close view of the erosion.

LM Start	0.71	Rating **	M	Issue No.	132 (cont)
LM End	0.73	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM41.36_7.JPG



Front view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.76	Rating **	U	Issue No.	133
LM End	0.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.936821 °	37.936821 °
				-121.334582 °	-121.334582 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant change observed. 08/23/2011: The site is located immediately upstream of a Railroad					

Photo 1 of 2 : SJR2015_RD0524U01RM41.39_1.jpg



Front view of the erosion site.

LM Start	0.76	Rating **	U	Issue No.	133 (cont)
LM End	0.77	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM41.39_4.jpg



Front view of the erosion site. Vegetation is visible.

LM Start	0.77	Rating **	U	Issue No.	262
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936555 °	37.936555 °
				-121.334847 °	-121.334847 °
DWR ID	DWR_RD0524_01_s_2012_262				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dense vegetation at landside toe along fence line.					

Photo 1 of 3 : FA_2015_RD0524_107_262_20151023_00245.jpg



Looking west at dense vegetation at landward slope and toe fall 2015.

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.77	Rating **	U	Issue No.	262 (cont)	
LM End	0.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Vegetation			37.936555 °	37.936555 °	
				-121.334847 °	-121.334847 °	
DWR ID	DWR_RD0524_01_s _ 2012_262					
Action/Comments						
Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comments: Dense vegetation at landside toe along fence line.						

LM Start	0.77	Rating **	U	Issue No.	262 (cont)
LM End	0.77	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2015_RD0524_107_262_20150914_00188.jpg



Looking west at dense vegetation on landside toe. Spring 2014

Photo 3 of 3 : FA_2015_RD0524_107_262_20150914_00187.jpg



Looking southwest at vegetation on landward slope and toe. (Spring 2013)

LM Start	0.78	Rating **	U	Issue No.	76
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.936444 °	37.936444 °
				-121.334797 °	-121.334797 °
DWR ID	DWR_RD0524_01_s _ 2012_76				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_76_20150914_00099.jpg



Looking southwest at low hanging tree branches at landside toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.81	Rating **	U	Issue No.	2
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.936093 °	37.936004 °
				-121.334648 °	-121.334615 °
DWR ID	DWR_RD0524_01_f _ 2013_2				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: One large hole. Hole is over 12" deep and 12" wide and several holes and finger erosions on landward slope.					

Photo 1 of 5 : FA_2015_RD0524_107_2_20150914_00001.jpg



Looking southwest at hole on landward shoulder.

LM Start	0.81	Rating **	U	Issue No.	2 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS

Photo 2 of 5 : FA_2015_RD0524_107_2_20150914_00002.jpg



Looking west at hole on landward shoulder.

LM Start	0.81	Rating **	U	Issue No.	2 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS

Photo 3 of 5 : FA_2015_RD0524_107_2_20150914_00003.jpg



Looking southeast at finger erosion on landward slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.81	Rating **	U	Issue No.	2 (cont)	
LM End	0.81	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.936093 °	37.936004 °	
				-121.334648 °	-121.334615 °	
DWR ID	DWR_RD0524_01_f_2013_2					
Action/Comments						
Schedule repair of erosion site prior to the next inspection. Inspector Comments: One large hole. Hole is over 12" deep and 12" wide and several holes and finger erosions on landward slope.						

Photo 4 of 5 : FA_2015_RD0524_107_2_20150914_00004.jpg



Looking east at erosion on landward slope.

LM Start	0.81	Rating **	U	Issue No.	2 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS

Photo 5 of 5 : FA_2015_RD0524_107_2_20150914_00005.jpg



Looking northeast at several finger erosion on landward slope.

LM Start	0.83	Rating **	U	Issue No.	134
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935930 °	37.935930 °
				-121.334133 °	-121.334133 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated. [2015 Site ID:RD0524U01RM41.44]					

Photo 1 of 2 : SJR2015_RD0524U01RM41.44_1.JPG



Front view of the erosion. The tree and vegetation block the view of the site.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.83	Rating **	U	Issue No.	134 (cont)
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935930 °	37.935930 °
				-121.334133 °	-121.334133 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated. [2015 Site ID:RD0524U01RM41.44]					

Photo 2 of 2 : SJR2015_RD0524U01RM41.44_2.JPG



The erosion is invisible because of the dense vegetation.

LM Start	0.91	Rating **	U	Issue No.	135
LM End	0.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935576 °	37.935576 °
				-121.333202 °	-121.333202 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The erosion site is immediately downstream of the riprap protection. [2015 Site ID:RD0524U01RM41.5]					

Photo 1 of 2 : SJR2015_RD0524U01RM41.50_4.jpg



Front view of the erosion. Note the riprap protection near the site.

LM Start	0.91	Rating **	U	Issue No.	135 (cont)
LM End	0.91	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM41.50_5.jpg



A close view of the erosion.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	0.92	Rating **	M	Issue No.	122
LM End	0.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.935267 °	37.935267 °
				-121.332985 °	-121.332985 °
DWR ID	DWR_RD0524_01_s _ 2013_122				
Action/Comments					
Pipe					
Inspector Comments: Inch and half metal pipe should be removed.					

Photo 1 of 1 : FA_2015_RD0524_107_122_20150914_00137.jpg



Looking northwest at inch and half metal pipe on waterward slope.

LM Start	0.93	Rating **	U	Issue No.	77
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935259 °	37.935049 °
				-121.332864 °	-121.331334 °
DWR ID	DWR_RD0524_01_s _ 2012_77				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_77_20150914_00100.jpg



Looking south at low hanging tree branches at landside toe.

LM Start	0.96	Rating **	A/W	Issue No.	20
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935181 °	37.935181 °
				-121.332297 °	-121.332297 °
DWR ID	DWR_RD0524_01_f _ 2013_20				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	17
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.935098 °	37.935018 °
				-121.331645 °	-121.331248 °
DWR ID	DWR_RD0524_01_s _ 2012_17				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Minor erosion was noted next to repaired site.					

Photo 1 of 3 : FA_2015_RD0524_107_17_20150914_00023.jpg



Looking upstream (south) at erosion site.

LM Start	1.00	Rating **	M	Issue No.	17 (cont)
LM End	1.02	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2015_RD0524_107_17_20150914_00024.jpg



Looking southeast at erosion next to repaired site on waterward slope (Spring 2013)

LM Start	1.00	Rating **	M	Issue No.	17 (cont)
LM End	1.02	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2015_RD0524_107_17_20150914_00025.jpg



Looking north at erosion site next to repaired site. (Spring 2012)

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.00	Rating **	U	Issue No.	137
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935410 °	37.935410 °
				-121.331560 °	-121.331560 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The erosion was discovered during the boat survey. [2015 Site ID:RD0524U01RM41.58]					

Photo 1 of 2 : SJR2015_RD0524U01RM41.58_2.jpg



Close view of the erosion.

LM Start	1.00	Rating **	U	Issue No.	137 (cont)
LM End	1.00	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM41.58_3.jpg



Front view of the erosion.

LM Start	1.02	Rating **	U	Issue No.	139
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935078 °	37.935078 °
				-121.331134 °	-121.331134 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site.					

Photo 1 of 2 : SJR2015_RD0524U01RM41.59_1.jpg



Front view of the site.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.02	Rating **	U	Issue No.	139 (cont)
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935078 °	37.935078 °
				-121.331134 °	-121.331134 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site. 08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away. [2015 Site ID:RD0524U01RM41.59]					

Photo 2 of 2 : SJR2015_RD0524U01RM41.59_5.jpg



Close view of the erosion.

LM Start	1.08	Rating **	U	Issue No.	18
LM End	1.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934645 °	37.934645 °
				-121.330310 °	-121.330310 °
DWR ID	DWR_RD0524_01_s_2012_18				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage extend from shoulder to middle of slope.					

Photo 1 of 7 : FA_2015_RD0524_107_18_20151023_00246.jpg



Looking south at caving on landward shoulder. (Fall 2015)

LM Start	1.08	Rating **	U	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS

Photo 2 of 7 : FA_2015_RD0524_107_18_20150914_00026.jpg



Looking south at caving on landward shoulder. (Spring 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	18 (cont)	
LM End	1.08	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.934645 °		37.934645 °
				-121.330310 °		-121.330310 °
DWR ID	DWR_RD0524_01_s _ 2012_18					
Action/Comments						
Repair slope instability. Inspector Comments: Slope damage extend from shoulder to middle of slope.						

Photo 3 of 7 : FA_2015_RD0524_107_18_20150914_00027.jpg



Landward slope damage. Spring 2014

LM Start	1.08	Rating **	U	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS

Photo 4 of 7 : FA_2015_RD0524_107_18_20150914_00028.jpg



Updated picture of the erosion site on the landside shoulder. Fall 2014

LM Start	1.08	Rating **	U	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS

Photo 5 of 7 : FA_2015_RD0524_107_18_20150914_00029.jpg



Looking south at caving on landside shoulder. (Spring 2013)

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934645 °	37.934645 °
				-121.330310 °	-121.330310 °
DWR ID	DWR_RD0524_01_s _ 2012_18				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage extend from shoulder to middle of slope.					



Looking at updated slope stability as of Fall 2013.

LM Start	1.08	Rating **	U	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS



Updated view from above the slope stability.

LM Start	1.12	Rating **	M	Issue No.	171
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.934225 °	37.933815 °
				-121.329693 °	-121.329242 °
DWR ID	DWR_RD0524_01_s _ 2015_171				
Action/Comments					
Prunings					
Inspector Comments: Prunings left on waterward shoulder and slope.					



Looking south at prunings on waterward shoulders.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.13	Rating **	A/W	Issue No.	175
LM End	1.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.934171 °	37.934171 °
				-121.329584 °	-121.329584 °
DWR ID	DWR_RD0524_01_f_2014_175				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	1.13	Rating **	M	Issue No.	19
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.934118 °	37.933775 °
				-121.329657 °	-121.329305 °
DWR ID	DWR_RD0524_01_s_2012_19				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_19_20150914_00032.jpg



Looking northwest at low hanging tree branches at waterside toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.15	Rating **	U	Issue No.	140
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.933347 °	37.933347 °
				-121.329110 °	-121.329110 °
DWR ID					

Action/Comments

Inspector Comments: 06/24/2015: No significant change observed.
 6/19/2014: No significant change observed.
 08/13/2013: No significant change at this site.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: No significant change observed on site.
 9/07/2010: No significant change observed on site. Vegetation is visible at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank.
 9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe.
 10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope. [2015 Site ID:RD0524U01RM41.79]

LM Start	1.15	Rating **	U	Issue No.	140 (cont)
LM End	1.23	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2015_RD0524U01RM41.79_3.jpg



Direct view of the site.

Photo 2 of 2 : SJR2015_RD0524U01RM41.79_5.jpg



Close view of the upstream side of the erosion.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.16	Rating **	M	Issue No.	915
LM End	1.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.933775 °	37.932784 °
				-121.329250 °	-121.328765 °
DWR ID	DWR_RD0524_01_s _ 2012_915				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0524_107_915_20150914_00197.jpg



Looking southwest at dense veg. on landside toe.

LM Start	1.29	Rating **	U	Issue No.	55
LM End	1.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.931858 °	37.931858 °
				-121.328300 °	-121.328300 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: New signs of animal activity were found. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2015 Site ID:RD0524U01RM41.92]					

Photo 1 of 1 : SJR2015_RD0524U01RM41.92_2.jpg



Front view of the erosion.

LM Start	1.30	Rating **	U	Issue No.	33
LM End	1.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.931948 °	37.931948 °
				-121.328387 °	-121.328387 °
DWR ID	DWR_RD0524_01_s _ 2012_33				
Action/Comments					
Pipe Inspector Comments: Pipe is not in use and should be properly abandoned.					

Photo 1 of 2 : FA_2015_RD0524_107_33_20150914_00051.jpg



Looking west at pipe on landside slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.30	Rating **	U	Issue No.	33 (cont)
LM End	1.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.931948 °	37.931948 °
				-121.328387 °	-121.328387 °
DWR ID	DWR_RD0524_01_s _ 2012_33				
Action/Comments					
Pipe Inspector Comments: Pipe is not in use and should be properly abandoned.					

Photo 2 of 2 : FA_2015_RD0524_107_33_20150914_00052.jpg



Looking north at broken pipe.

LM Start	1.32	Rating **	M	Issue No.	130
LM End	1.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.931658 °	37.931085 °
				-121.328255 °	-121.328112 °
DWR ID	DWR_RD0524_01_s _ 2013_130				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

No Photos

LM Start	1.36	Rating **	U	Issue No.	172
LM End	1.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.931085 °	37.930517 °
				-121.328112 °	-121.328072 °
DWR ID	DWR_RD0524_01_s _ 2015_172				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Levee crown depression several inches below original crown elevation. Section should be survey to determine proper elevation.					

Photo 1 of 2 : FA_2015_RD0524_107_172_20150914_00161.jpg



Looking east at depression on levee crown.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.36	Rating **	U	Issue No.	172 (cont)	
LM End	1.40	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			37.931085 °		37.930517 °
				-121.328112 °		-121.328072 °
DWR ID	DWR_RD0524_01_s _ 2015_172					
Action/Comments						
Repair depressions or ruts in the crown or slope. Inspector Comments: Levee crown depression several inches below original crown elevation. Section should be survey to determine proper elevation.						

Photo 2 of 2 : FA_2015_RD0524_107_172_20150914_00162.jpg



Looking southeast at depression on levee crown.

LM Start	1.39	Rating **	U	Issue No.	79
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930575 °	37.930575 °
				-121.328090 °	-121.328090 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge. [2015 Site ID:RD0524U01RM42.03]					

Photo 1 of 2 : SJR2015_RD0524U01RM42.03_1.jpg



Front view of the erosion.

LM Start	1.39	Rating **	U	Issue No.	79 (cont)
LM End	1.39	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM42.03_3.jpg



Close view of the erosion.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.45	Rating **	U	Issue No.	89
LM End	1.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.929650 °	37.929650 °
				-121.328110 °	-121.328110 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: The site is located approximately 400 ft. downstream SR 4 Bridge. Dense vegetation is visible at the toe. [2015 Site ID:RD0524U01RM42.09]					

Photo 1 of 3 : SJR2015_RD0524U01RM42.09_1.JPG



Front view of the erosion site.

LM Start	1.45	Rating **	U	Issue No.	89 (cont)
LM End	1.47	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SJR2015_RD0524U01RM42.09_2.JPG



Close view of the erosion.

LM Start	1.45	Rating **	U	Issue No.	89 (cont)
LM End	1.47	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SJR2015_RD0524U01RM42.09_4.JPG



Close view of the erosion. Note the vegetation at the site.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.49	Rating **	U	Issue No.	916
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.929118 °	37.929118 °
				-121.328368 °	-121.328368 °
DWR ID	DWR_RD0524_01_s _ 2012_916				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comments: Untrimmed trees and dense vegetation on landward toe.					

LM Start	1.49	Rating **	U	Issue No.	916 (cont)
LM End	1.49	Issue Type +	Ma	Location *	LS

LM Start	1.49	Rating **	U	Issue No.	916 (cont)
LM End	1.49	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : FA_2015_RD0524_107_916_20151023_00247.jpg



Looking southwest at dense trees on landward slope and toe fall 2015

Photo 2 of 4 : FA_2015_RD0524_107_916_20150914_00199.jpg



Looking south at trees on landside slope. (Fall 2012)

Photo 3 of 4 : FA_2015_RD0524_107_916_20150914_00200.jpg



Looking south at dense veg. on landside slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.49	Rating **	U	Issue No.	916 (cont)	
LM End	1.49	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.929118 °		37.929118 °
				-121.328368 °		-121.328368 °
DWR ID	DWR_RD0524_01_s_2012_916					
Action/Comments						
Trim and thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comments: Untrimmed trees and dense vegetation on landward toe.						

Photo 4 of 4 : FA_2015_RD0524_107_916_20150914_00198.jpg



Dense vegetation on landside toe.

LM Start	1.55	Rating **	A/W	Issue No.	23
LM End	1.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.928388 °	37.927797 °
				-121.328280 °	-121.327854 °
DWR ID	DWR_RD0524_01_s_2012_23				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 5 : FA_2015_RD0524_107_23_20150914_00035.jpg



Overgrown landscaping on landward slope from LM 1.56 to 1.74

LM Start	1.55	Rating **	A/W	Issue No.	23 (cont)
LM End	1.59	Issue Type +	Ma	Location *	LS

Photo 2 of 5 : FA_2015_RD0524_107_23_20150914_00036.jpg



Looking north from landward berm at corrected site.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.55	Rating **	A/W	Issue No.	23 (cont)
LM End	1.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.928388 °	37.927797 °
				-121.328280 °	-121.327854 °
DWR ID	DWR_RD0524_01_s_2012_23				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

LM Start	1.55	Rating **	A/W	Issue No.	23 (cont)
LM End	1.59	Issue Type +	Ma	Location *	LS

LM Start	1.55	Rating **	A/W	Issue No.	23 (cont)
LM End	1.59	Issue Type +	Ma	Location *	LS

Photo 3 of 5 : FA_2015_RD0524_107_23_20150914_00037.jpg



Looking east from landward berm at corrected site.

Photo 4 of 5 : FA_2015_RD0524_107_23_20150914_00038.jpg



Looking south from levee crown at corrected site.

Photo 5 of 5 : FA_2015_RD0524_107_23_20150914_00039.jpg



Looking south from levee crown at upstream end of corrected site.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.56	Rating **	U	Issue No.	90
LM End	1.62	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.927770 °	37.927770 °
				-121.327870 °	-121.327870 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: : The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed on site. Trees concerned					

LM Start	1.56	Rating **	U	Issue No.	90 (cont)
LM End	1.62	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2015_RD0524U01RM42.20_1.jpg



Front view of the site where undermining has occurred.

Photo 2 of 2 : SJR2015_RD0524U01RM42.20_5.jpg



Close view of the erosion at the levee toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.58	Rating **	U	Issue No.	173
LM End	1.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927975 °	37.927975 °
				-121.328088 °	-121.328088 °
DWR ID	DWR_RD0524_01_s_2015_173				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Tree is located on landward shoulder and crown should be removed.					

Photo 1 of 1 : FA_2015_RD0524_107_173_20150914_00163.jpg



Looking northwest at tree on within levee crown.

LM Start	1.59	Rating **	M	Issue No.	136
LM End	1.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.927775 °	37.927775 °
				-121.327860 °	-121.327860 °
DWR ID	DWR_RD0524_01_s_2013_136				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: Waterward shoulder caving.					

Photo 1 of 1 : FA_2015_RD0524_107_136_20150914_00149.jpg



Looking south at depression on levee crown near waterward shoulder.

LM Start	1.60	Rating **	U	Issue No.	24
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.927635 °	37.927540 °
				-121.327812 °	-121.327648 °
DWR ID	DWR_RD0524_01_s_2012_24				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Vegetation blocking landward toe.					

Photo 1 of 3 : FA_2015_RD0524_107_24_20151023_00248.jpg



Looking southwest at dense vegetation on landward slope 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.60	Rating **	U	Issue No.	24 (cont)	
LM End	1.61	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.927635 °		37.927540 °
				-121.327812 °		-121.327648 °
DWR ID	DWR_RD0524_01_s _ 2012_24					
Action/Comments						
Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comments: Vegetation blocking landward toe.						

LM Start	1.60	Rating **	U	Issue No.	24 (cont)
LM End	1.61	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2015_RD0524_107_24_20150914_00040.jpg



Looking south at vegetation blocking view of landward toe.

Photo 3 of 3 : FA_2015_RD0524_107_24_20150914_00041.jpg



Looking north at dense vegetation on the landside and waterside slopes.

LM Start	1.60	Rating **	A/W	Issue No.	25
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.927635 °	37.927540 °
				-121.327812 °	-121.327648 °
DWR ID	DWR_RD0524_01_s _ 2012_25				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0524_107_25_20150914_00042.jpg



Looking southeast at dense vegetation on the waterside slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.62	Rating **	M	Issue No.	26
LM End	1.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.927507 °	37.927295 °
				-121.327593 °	-121.327298 °
DWR ID	DWR_RD0524_01_s _ 2012_26				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Several erosions along this reach.					

Photo 1 of 3 : FA_2015_RD0524_107_26_20150914_00043.jpg



Looking south at waterward erosion.

LM Start	1.62	Rating **	M	Issue No.	26 (cont)
LM End	1.64	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2015_RD0524_107_26_20150914_00044.jpg



Looking east at waterward erosion.

LM Start	1.62	Rating **	M	Issue No.	26 (cont)
LM End	1.64	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2015_RD0524_107_26_20150914_00045.jpg



Looking east at waterward erosion and depression.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.65	Rating **	N	Issue No.	8
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927255 °	37.926855 °
				-121.327137 °	-121.326672 °
DWR ID	DWR_RD0524_01_s_2012_8				
Action/Comments					
Tree stumps.					
Inspector Comments: Several tree stumps on waterside shoulder.					

No Photos

LM Start	1.67	Rating **	U	Issue No.	45
LM End	1.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927018 °	37.927018 °
				-121.326872 °	-121.326872 °
DWR ID	DWR_RD0524_01_s_2012_45				
Action/Comments					
Stairway					
Inspector Comments: Stairs and retaining wall					

LM Start	1.67	Rating **	U	Issue No.	45 (cont)
LM End	1.67	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2015_RD0524_107_45_20150914_00067.jpg



Looking northeast at non-permitted concrete stairs on waterside slope.

Photo 2 of 3 : FA_2015_RD0524_107_45_20150914_00068.jpg



Looking southwest at retaining wall connected to concrete stairs.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.67	Rating **	U	Issue No.	45 (cont)
LM End	1.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927018 °	37.927018 °
				-121.326872 °	-121.326872 °
DWR ID	DWR_RD0524_01_s_2012_45				
Action/Comments					
Stairway					
Inspector Comments: Stairs and retaining wall					

Photo 3 of 3 : FA_2015_RD0524_107_45_20150914_00069.jpg



Looking west at concrete stairs on waterside slope.

LM Start	1.69	Rating **	M	Issue No.	27
LM End	1.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.926728 °	37.926730 °
				-121.326597 °	-121.326508 °
DWR ID	DWR_RD0524_01_s_2012_27				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage several feet long and greater than one inch deep.					

Photo 1 of 1 : FA_2015_RD0524_107_27_20150914_00046.jpg



Looking south at landward slope depression.

LM Start	1.73	Rating **	M	Issue No.	28
LM End	1.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926322 °	37.926322 °
				-121.326115 °	-121.326115 °
DWR ID	DWR_RD0524_01_s_2012_28				
Action/Comments					
Garbage Inspector Comments: Large pruning piles on landside slope.					

Photo 1 of 1 : FA_2015_RD0524_107_28_20151023_00249.jpg



Looking west at pruning pile at landward toe fall 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.	46
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926152 °	37.925993 °
				-121.325927 °	-121.325777 °
DWR ID	DWR_RD0524_01_s _ 2012_46				
Action/Comments					
Tree or limb					
Inspector Comments: Downed tree limbs on landward slope.					

Photo 1 of 4 : FA_2015_RD0524_107_46_20150914_00070.jpg



Looking south at tree limbs on landward slope.

LM Start	1.75	Rating **	U	Issue No.	46 (cont)
LM End	1.76	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : FA_2015_RD0524_107_46_20150914_00071.jpg



Looking southwest at tree limbs on landward slope.

LM Start	1.75	Rating **	U	Issue No.	46 (cont)
LM End	1.76	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2015_RD0524_107_46_20150914_00072.jpg



Looking south at tree limbs on landward slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.	46 (cont)
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926152 °	37.925993 °
				-121.325927 °	-121.325777 °
DWR ID	DWR_RD0524_01_s _ 2012_46				
Action/Comments					
Tree or limb					
Inspector Comments: Downed tree limbs on landward slope.					

Photo 4 of 4 : FA_2015_RD0524_107_46_20150914_00073.jpg



Looking southwest at dense vegetation and low hanging tree branches on landside slope and toe.

LM Start	1.76	Rating **	A/W	Issue No.	181
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.925972 °	37.925972 °
				-121.325769 °	-121.325769 °
DWR ID	DWR_RD0524_01_s _ 2014_181				
Action/Comments					
Material					
Inspector Comments: Landowner stockpiling pallets at landward toe.					

Photo 1 of 1 : FA_2015_RD0524_107_181_20150914_00173.jpg



Looking west at wooden pallets at landward toe.

LM Start	1.78	Rating **	A/W	Issue No.	100
LM End	1.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.925752 °	37.925752 °
				-121.325592 °	-121.325592 °
DWR ID	DWR_RD0524_01_s _ 2012_100				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2015_RD0524_107_100_20150914_00119.jpg



Looking southwest at prunings on landside toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	1.94	Rating **	U	Issue No.	176
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.923688 °	37.923688 °
				-121.324223 °	-121.324223 °
DWR ID	DWR_RD0524_01_s _ 2015_176				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landward caving (3 x 18" x 5) caused by broken sprinklers.					

Photo 1 of 2 : FA_2015_RD0524_107_176_20150914_00166.jpg



Looking west at erosion within landscaping on landward shoulder and slope.

LM Start	1.94	Rating **	U	Issue No.	176 (cont)
LM End	1.94	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_176_20150914_00167.jpg



Looking east at erosion within landscaping on landward slope and shoulder.

LM Start	2.08	Rating **	M	Issue No.	183
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.922009 °	37.922009 °
				-121.323015 °	-121.323015 °
DWR ID	DWR_RD0524_01_s _ 2014_183				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Cactus on waterward slope.					

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.13	Rating **	M	Issue No.	6
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.921540 °	37.920959
				-121.322293 °	-121.321365
DWR ID	DWR_RD0524_01_f_2012_6				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.15	Rating **	A/W	Issue No.	30
LM End	2.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.921383 °	37.921300 °
				-121.322043 °	-121.321902 °
DWR ID	DWR_RD0524_01_s_2012_30				
Action/Comments					
Note and monitor erosion site.					

No Photos

LM Start	2.19	Rating **	U	Issue No.	99
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920992 °	37.920992 °
				-121.321370 °	-121.321370 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 7/22/2014: The erosion has increased in size. 08/13/2013: No significant change observed. Slightly more vegetation was visible. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2015 Site ID:RD0524U01RM42.79]					

Photo 1 of 2 : SJR2015_RD0524U01RM42.79_1.jpg



Close view of the pocket erosion.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.19	Rating **	U	Issue No.	99 (cont)
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920992 °	37.920992 °
				-121.321370 °	-121.321370 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 7/22/2014: The erosion has increased in size. 08/13/2013: No significant change observed. Slightly more vegetation was visible. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2015 Site ID:RD0524U01RM42.79]					

Photo 2 of 2 : SJR2015_RD0524U01RM42.79_4.jpg



Front view of the erosion.

LM Start	2.19	Rating **	M	Issue No.	31
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.920992 °	37.920505 °
				-121.321373 °	-121.320485 °
DWR ID	DWR_RD0524_01_s_2012_31				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA_2015_RD0524_107_31_20150914_00049.jpg



Looking south slope damage on waterward shoulder and slope.

LM Start	2.24	Rating **	U	Issue No.	103
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920650 °	37.920650 °
				-121.320370 °	-121.320370 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: An irrigation pipe is on site. [2015 Site ID:RD0524U01RM42.84]					

Photo 1 of 3 : SJR2015_RD0524U01RM42.84_1.JPG



View from upstream.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.24	Rating **	U	Issue No.	103 (cont)
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920650 °	37.920650 °
				-121.320370 °	-121.320370 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: An irrigation pipe is on site. [2015 Site ID:RD0524U01RM42.84]					



Close view of the erosion. Note the irrigation pipe.

LM Start	2.24	Rating **	U	Issue No.	103 (cont)
LM End	2.27	Issue Type +	Ma	Location *	WS



Close view of the erosion.

LM Start	2.27	Rating **	U	Issue No.	32
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.920372 °	37.920167 °
				-121.320230 °	-121.319890 °
DWR ID	DWR_RD0524_01_s_2012_32				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense elderberry bushes on landward slope and toe.					



Looking northwest at dense veg on landward slope and toe 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.27	Rating **	U	Issue No.	32 (cont)
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.920372 °	37.920167 °
				-121.320230 °	-121.319890 °
DWR ID	DWR_RD0524_01_s_2012_32				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense elderberry bushes on landward slope and toe.					

Photo 2 of 2 : FA_2015_RD0524_107_32_20150914_00050.jpg



Looking south at dense veg on landside slope and toe.

LM Start	2.31	Rating **	C	Issue No.	109
LM End	2.33	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.919885 °	37.919885 °
				-121.319710 °	-121.319710 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: The erosion was repaired. 08/13/2013: The length of erosion has progressed downstream, and the site length has increased from 12 ft in length last year to 100 feet in length this year. 08/07/2012: The site was first reported in the 2012 spring levee inspection report. The site is located at the inside corner of a river bend. [2015 Site ID:RD0524U01RM42.93]					

No Photos

LM Start	2.32	Rating **	M	Issue No.	34
LM End	2.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.919885 °	37.919703 °
				-121.319713 °	-121.319702 °
DWR ID	DWR_RD0524_01_s_2012_34				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: Slope damage caused by walking traffic and using bank as a fishing platform.					

Photo 1 of 1 : FA_2015_RD0524_107_34_20150914_00053.jpg



Looking northeast at damage to the slope possibly caused by human activity.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	107
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.919742 °	37.919742 °
				-121.319623 °	-121.319623 °
DWR ID	DWR_RD0524_01_s _ 2012_107				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.38	Rating **	A/W	Issue No.	184
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.919036 °	37.919036 °
				-121.319969 °	-121.319969 °
DWR ID	DWR_RD0524_01_s _ 2014_184				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.41	Rating **	U	Issue No.	35
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918785 °	37.918515 °
				-121.320417 °	-121.321110 °
DWR ID	DWR_RD0524_01_s _ 2012_35				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2015_RD0524_107_35_20150914_00054.jpg



Looking southwest at dense vegetation on landward toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.44	Rating **	M	Issue No.	36
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.918628 °	37.918438 °
				-121.320817 °	-121.321452 °
DWR ID	DWR_RD0524_01_s_2012_36				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2015_RD0524_107_36_20150914_00055.jpg



Looking east at erosion on waterside slope.

LM Start	2.45	Rating **	M	Issue No.	80
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.918480 °	37.918480 °
				-121.321114 °	-121.321114 °
DWR ID	DWR_RD0524_01_s_2012_80				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 2 : FA_2015_RD0524_107_80_20150914_00103.jpg

Looking southwest at dense vegetation and trees on landside slope.
(Fall 2012)

LM Start	2.45	Rating **	M	Issue No.	80 (cont)
LM End	2.45	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_80_20150914_00104.jpg



Looking southwest at dense vegetation on landside toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.49	Rating **	U	Issue No.	37
LM End	2.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918345 °	37.918302 °
				-121.321765 °	-121.321923 °
DWR ID	DWR_RD0524_01_s _ 2012_37				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 4 : FA_2015_RD0524_107_37_20150914_00056.jpg



Looking south at elderberry on landside slope.

LM Start	2.49	Rating **	U	Issue No.	37 (cont)
LM End	2.50	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : FA_2015_RD0524_107_37_20150914_00057.jpg



Looking southwest at dense vegetation on landside toe.

LM Start	2.49	Rating **	U	Issue No.	37 (cont)
LM End	2.50	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2015_RD0524_107_37_20150914_00058.jpg



Looking north at elderberry and trees on landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.49	Rating **	U	Issue No.	37 (cont)	
LM End	2.50	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.918345 °		37.918302 °
				-121.321765 °		-121.321923 °
DWR ID	DWR_RD0524_01_s _ 2012_37					
Action/Comments						
Elderberries are blocking visibility and flood fight capability.						

Photo 4 of 4 : FA_2015_RD0524_107_37_20150914_00059.jpg



Looking southwest at trees along levee landside toe.

LM Start	2.50	Rating **	U	Issue No.	38
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918287 °	37.918287 °
				-121.321980 °	-121.321980 °
DWR ID	DWR_RD0524_01_s _ 2012_38				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : FA_2015_RD0524_107_38_20150914_00060.jpg



Looking north at elderberry on waterside slope.

LM Start	2.50	Rating **	U	Issue No.	38 (cont)
LM End	2.50	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0524_107_38_20150914_00061.jpg



Looking south at elderberry on waterside slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.53	Rating **	M	Issue No.	82
LM End	2.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.918060 °	37.917667 °
				-121.322384 °	-121.322713 °
DWR ID	DWR_RD0524_01_s _ 2012_82				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA_2015_RD0524_107_82_20150914_00107.jpg



Looking southwest at damaged landward slope.

LM Start	2.53	Rating **	M	Issue No.	40
LM End	2.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918047 °	37.918047 °
				-121.322415 °	-121.322415 °
DWR ID	DWR_RD0524_01_s _ 2012_40				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	2.56	Rating **	M	Issue No.	41
LM End	2.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.917673 °	37.917673
				-121.322718 °	-121.322718
DWR ID	DWR_RD0524_01_s _ 2012_41				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	917
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.917475 °	37.917475 °
				-121.322808 °	-121.322808 °
DWR ID	DWR_RD0524_01_s _ 2012_917				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					

No Photos

LM Start	2.59	Rating **	M	Issue No.	9
LM End	2.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.917228 °	37.917228 °
				-121.322730 °	-121.322730 °
DWR ID	DWR_RD0524_01_s _ 2012_9				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.60	Rating **	M	Issue No.	185
LM End	2.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.917152 °	37.916807 °
				-121.322582 °	-121.322069 °
DWR ID	DWR_RD0524_01_s _ 2014_185				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.64	Rating **	U	Issue No.	43
LM End	2.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.916780 °	37.916780 °
				-121.322095 °	-121.322095 °
DWR ID	DWR_RD0524_01_s _ 2012_43				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense elderberry on landward shoulder, slope, and toe.					

Photo 1 of 1 : FA_2015_RD0524_107_43_20151023_00251.jpg



Looking southeast at dense veg on landward slope and toe fall 2015.

LM Start	2.65	Rating **	M	Issue No.	918
LM End	2.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916718 °	37.916502 °
				-121.322020 °	-121.321980 °
DWR ID	DWR_RD0524_01_s _ 2012_918				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.65	Rating **	C	Issue No.	125
LM End	2.65	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.916650 °	37.916650 °
				-121.321980 °	-121.321980 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: The erosion was repaired. 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2015 Site ID:RD0524U01RM43.23]					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.67	Rating **	A/W	Issue No.	44
LM End	2.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916418 °	37.915142 °
				-121.321963 °	-121.323018 °
DWR ID	DWR_RD0524_01_s_2012_44				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trim over hanging trees at least 12 feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_44_20150914_00066.jpg



Looking north at dense trees overhanging levee crown.

LM Start	2.68	Rating **	M	Issue No.	21
LM End	2.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.916224 °	37.916224 °
				-121.322115 °	-121.322115 °
DWR ID	DWR_RD0524_01_f_2013_21				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Large erosion around irrigation pipe.					

Photo 1 of 2 : FA_2015_RD0524_107_21_20150914_00033.jpg



Looking at erosion around irrigation pipe on waterward slope.

LM Start	2.68	Rating **	M	Issue No.	21 (cont)
LM End	2.68	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0524_107_21_20150914_00034.jpg



Looking east at erosion around irrigation pipe on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

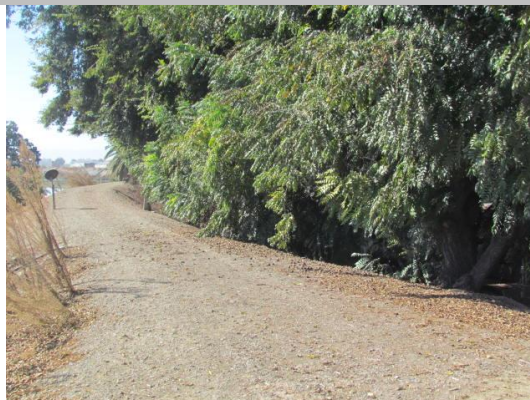
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.70	Rating **	A/W	Issue No.	264
LM End	2.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.915968 °	37.915968 °
				-121.322275 °	-121.322275 °
DWR ID	DWR_RD0524_01_s _ 2012_264				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	2.72	Rating **	U	Issue No.	60
LM End	2.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.915747 °	37.915492 °
				-121.322470 °	-121.322639 °
DWR ID	DWR_RD0524_01_s _ 2012_60				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Untrimmed trees on landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_60_20151023_00252.jpg



Looking southwest at dense untrimmed trees on landward slope and toe fall 2015.

LM Start	2.74	Rating **	A/W	Issue No.	70
LM End	2.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.915503 °	37.915503 °
				-121.322745 °	-121.322745 °
DWR ID	DWR_RD0524_01_s _ 2012_70				
Action/Comments					
Tree or limb					
Inspector Comments: Broken tree branch.					

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.80	Rating **	U	Issue No.	48
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.915022 °	37.915022 °
				-121.323443 °	-121.323443 °
DWR ID	DWR_RD0524_01_s _ 2012_48				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : FA_2015_RD0524_107_48_20150914_00074.jpg



Looking south at dense elderberry on landside slope.(Spring 2012)

LM Start	2.80	Rating **	U	Issue No.	48 (cont)
LM End	2.80	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_48_20150914_00075.jpg



Looking south at elderberry on landside slope.(Spring 2011)

LM Start	2.80	Rating **	U	Issue No.	91
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.915063 °	37.915063 °
				-121.323585 °	-121.323585 °
DWR ID	DWR_RD0524_01_s _ 2012_91				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : FA_2015_RD0524_107_91_20150914_00111.jpg



Looking southwest at dense vegetation on landside slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.86	Rating **	U	Issue No.	49
LM End	2.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.914427 °	37.914427 °
				-121.324198 °	-121.324198 °
DWR ID	DWR_RD0524_01_s_2012_49				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2015_RD0524_107_49_20150914_00076.jpg



Looking northwest at elderberry on landside slope.

LM Start	2.90	Rating **	U	Issue No.	50
LM End	2.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.913767 °	37.913503 °
				-121.324427 °	-121.324488 °
DWR ID	DWR_RD0524_01_s_2012_50				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2015_RD0524_107_50_20150914_00077.jpg



Looking southwest at prunings on landside slope.

LM Start	2.93	Rating **	U	Issue No.	51
LM End	2.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913415 °	37.913415 °
				-121.324503 °	-121.324503 °
DWR ID	DWR_RD0524_01_s_2012_51				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Untrimmed trees on landward slope and toe.					

Photo 1 of 2 : FA_2015_RD0524_107_51_20151023_00253.jpg



Looking south at dense trees on landward slope fall 2015

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	2.93	Rating **	U	Issue No.	51 (cont)
LM End	2.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913415 °	37.913415 °
				-121.324503 °	-121.324503 °
DWR ID	DWR_RD0524_01_s _ 2012_51				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Untrimmed trees on landward slope and toe.					

Photo 2 of 2 : FA_2015_RD0524_107_51_20150914_00078.jpg



Looking south at dense trees on landward slope spring 2015

LM Start	2.96	Rating **	U	Issue No.	126
LM End	2.96	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.913010 °	37.913010 °
				-121.324490 °	-121.324490 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2015 Site ID:RD0524U01RM43.52]					

Photo 1 of 1 : SJR2015_RD0524U01RM43.52_2.jpg



Front view of the erosion.

LM Start	3.02	Rating **	M	Issue No.	924
LM End	3.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.912163 °	37.912163 °
				-121.324702 °	-121.324702 °
DWR ID	DWR_RD0524_01_s _ 2012_924				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.07	Rating **	M	Issue No.	925
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.911382 °	37.908602 °
				-121.324928 °	-121.325395 °
DWR ID	DWR_RD0524_01_s _ 2012_925				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes on levee slopes.					

Photo 1 of 2 : FA_2015_RD0524_107_925_20151023_00254.jpg



Looking at typical view of rodent hole with this section fall 2015.

LM Start	3.07	Rating **	M	Issue No.	925 (cont)
LM End	3.27	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_925_20150914_00202.jpg



Looking at typical rodent holes on landward slope along this reach.

LM Start	3.23	Rating **	C	Issue No.	127
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.908544 °	37.908544 °
				-121.324894 °	-121.324894 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: New erosion was found at the levee toe. Trees are present. 08/07/2012: The site has been repaired. Protecting riprap revetment has been placed at the levee shoulder and slope, but minor erosions are visible at the levee toe.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.27	Rating **	A/W	Issue No.	186
LM End	3.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908551 °	37.908551 °
				-121.325381 °	-121.325381 °
DWR ID	DWR_RD0524_01_s _ 2014_186				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.30	Rating **	U	Issue No.	128
LM End	3.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.908090 °	37.908090 °
				-121.325090 °	-121.325090 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site. [2015 Site ID:RD0524U01RM43.86]					

Photo 1 of 2 : SJR2015_RD0524U01RM43.86_2.JPG



Front view of the erosion.

LM Start	3.30	Rating **	U	Issue No.	128 (cont)
LM End	3.32	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM43.86_5.JPG



Close view of the erosion.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.30	Rating **	M	Issue No.	926
LM End	3.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908158 °	37.907872 °
				-121.325418 °	-121.325443 °
DWR ID	DWR_RD0524_01_s _ 2012_926				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.34	Rating **	A/W	Issue No.	52
LM End	3.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.907645 °	37.907157 °
				-121.325442 °	-121.325408 °
DWR ID	DWR_RD0524_01_s _ 2012_52				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.36	Rating **	M	Issue No.	53
LM End	3.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.907283 °	37.906503 °
				-121.325432 °	-121.325002 °
DWR ID	DWR_RD0524_01_s _ 2012_53				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.42	Rating **	M	Issue No.	56
LM End	3.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.906540 °	37.906540 °
				-121.325015 °	-121.325015 °
DWR ID	DWR_RD0524_01_s_2012_56				
Action/Comments					
Material					
Inspector Comments: Broken concrete pipes					

Photo 1 of 1 : FA_2015_RD0524_107_56_20150914_00081.jpg



Looking southwest at concrete pipes on landside toe.

LM Start	3.45	Rating **	U	Issue No.	54
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.906227 °	37.906227 °
				-121.324683 °	-121.324683 °
DWR ID	DWR_RD0524_01_s_2012_54				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comments: Dense untrimmed trees on landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_54_20150914_00079.jpg



Looking northwest at dense vegetation on landside slope.

LM Start	3.48	Rating **	M	Issue No.	177
LM End	3.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.905994 °	37.905994 °
				-121.324194 °	-121.324194 °
DWR ID	DWR_RD0524_01_f_2014_177				
Action/Comments					
Tree or limb					
Inspector Comments: Dead tree on landward toe.					

Photo 1 of 1 : FA_2015_RD0524_107_177_20151023_00255.jpg



Looking at dead tree limb at landward toe fall 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.51	Rating **	U	Issue No.	57
LM End	3.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.905638 °	37.904430 °
				-121.323892 °	-121.324570 °
DWR ID	DWR_RD0524_01_s _ 2012_57				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : FA_2015_RD0524_107_57_20150914_00082.jpg



Looking south at dense trees on landward slope.

LM Start	3.56	Rating **	C	Issue No.	1
LM End	3.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.904630 °	37.904630 °
				-121.323610 °	-121.323610 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: The previous erosion was repaired. New erosion was found below the repaired levee slope. 08/13/2013: No significant change observed. 08/07/2012: The levee toe has been cut off along a 150 ft. long river stretch. The erosion is located just upstream of a river bend. [2015 Site ID:RD0524U01RM44.13]					

No Photos

LM Start	3.64	Rating **	M	Issue No.	58
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.904113 °	37.904113 °
				-121.325080 °	-121.325080 °
DWR ID	DWR_RD0524_01_s _ 2012_58				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: Landowner cut steps into waterside slope.					

Photo 1 of 1 : FA_2015_RD0524_107_58_20150914_00083.jpg



Looking southeast steps cut into waterside slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.65	Rating **	U	Issue No.	190
LM End	3.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.904070 °	37.904070 °
				-121.325118 °	-121.325118 °
DWR ID	DWR_RD0524_01_f_2015_190				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Large century plant at landward toe.					

Photo 1 of 1 : FA_2015_RD0524_107_190_20151023_00256.jpg



Looking southwest at century plant at landward toe fall 2015.

LM Start	3.67	Rating **	U	Issue No.	192
LM End	3.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.903782 °	37.903782 °
				-121.325363 °	-121.325363 °
DWR ID	DWR_RD0524_01_s_2015_192				
Action/Comments					
Prunings					
Inspector Comments: Large pruning piles at landward toe.					

Photo 1 of 1 : FA_2015_RD0524_107_192_20150914_00177.jpg



Looking east at pruning pile at landward toe.

LM Start	3.77	Rating **	M	Issue No.	927
LM End	3.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902645 °	37.902645 °
				-121.326340 °	-121.326340 °
DWR ID	DWR_RD0524_01_s_2012_927				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_927_20150914_00203.jpg



Looking east at untrimmed tree on landward slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.78	Rating **	M	Issue No.	59
LM End	3.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902417 °	37.902417 °
				-121.326482 °	-121.326482 °
DWR ID	DWR_RD0524_01_s _ 2012_59				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_59_20150914_00084.jpg



Looking south at untrimmed trees on landward slope.

LM Start	3.80	Rating **	U	Issue No.	928
LM End	3.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902155 °	37.902002 °
				-121.326523 °	-121.326550 °
DWR ID	DWR_RD0524_01_s _ 2012_928				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Several trees on landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_928_20151023_00257.jpg



Looking south at dense vegetation on landward slope and toe.

LM Start	3.85	Rating **	M	Issue No.	187
LM End	3.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.901447 °	37.901447 °
				-121.326500 °	-121.326500 °
DWR ID	DWR_RD0524_01_s _ 2014_187				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limb on waterward shoulder.					

Photo 1 of 1 : FA_2015_RD0524_107_187_20150914_00176.jpg



Looking northeast at tree limb on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	3.88	Rating **	U	Issue No.	94
LM End	3.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.900952 °	37.900952 °
				-121.326443 °	-121.326443 °
DWR ID	DWR_RD0524_01_s _ 2012_94				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove cactus from waterward slope.					

Photo 1 of 2 : FA_2015_RD0524_107_94_20151023_00258.jpg



Looking southeast at cactus on waterward slope fall 2015

LM Start	3.88	Rating **	U	Issue No.	94 (cont)
LM End	3.88	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0524_107_94_20150914_00114.jpg



Looking southeast at cactus on waterside slope. Fall 2013

LM Start	3.89	Rating **	U	Issue No.	83
LM End	3.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.900854 °	37.900854 °
				-121.326438 °	-121.326438 °
DWR ID	DWR_RD0524_01_s _ 2012_83				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Untrimmed tree on landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_83_20151023_00259.jpg



Looking south at untrimmed trees on landward slope and toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	4.02	Rating **	U	Issue No.	195
LM End	4.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.899093 °	37.899093 °
				-121.326933 °	-121.326933 °
DWR ID	DWR_RD0524_01_s _ 2015_195				
Action/Comments					
Prunings					
Inspector Comments: Pruning pile blocking view of landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_195_20150914_00181.jpg



Looking east at pruning pile at landward toe.

LM Start	4.03	Rating **	M	Issue No.	61
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.898925 °	37.898925 °
				-121.327015 °	-121.327015 °
DWR ID	DWR_RD0524_01_s _ 2012_61				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_61_20150914_00085.jpg



Looking east at untrimmed tree at landward toe.

LM Start	4.04	Rating **	M	Issue No.	64
LM End	4.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.898832 °	37.898090 °
				-121.327092 °	-121.327457 °
DWR ID	DWR_RD0524_01_s _ 2012_64				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD0524_107_64_20150914_00089.jpg



Looking at typical view of grouted rodent holes on landward slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	4.05	Rating **	M	Issue No.	62
LM End	4.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.898717 °	37.898717 °
				-121.327138 °	-121.327138 °
DWR ID	DWR_RD0524_01_f_2015_62				
Action/Comments					
Prunings					
Inspector Comments: Pruning pile at landward toe.					

No Photos

LM Start	4.10	Rating **	M	Issue No.	108
LM End	4.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.898035 °	37.898035 °
				-121.327447 °	-121.327447 °
DWR ID	DWR_RD0524_01_s_2012_108				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA_2015_RD0524_107_108_20150914_00125.jpg



Looking southwest at caving slope on landside of levee.

LM Start	4.36	Rating **	A/W	Issue No.	65
LM End	4.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.894587 °	37.892493 °
				-121.329253 °	-121.328267 °
DWR ID	DWR_RD0524_01_s_2012_65				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	4.40	Rating **	U	Issue No.	112
LM End	4.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.893928 °	37.892230 °
				-121.329203 °	-121.328187 °
DWR ID	DWR_RD0524_01_s _ 2012_112				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Untrimmed trees along landward slope and toe.					

Photo 1 of 2 : FA_2015_RD0524_107_112_20150914_00128.jpg



Looking southeast at untrimmed tree at landward toe.

LM Start	4.40	Rating **	U	Issue No.	112 (cont)
LM End	4.53	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_112_20151023_00260.jpg



Looking northeast at untrimmed tree on landward slope and toe fall 2015.

LM Start	4.43	Rating **	U	Issue No.	199
LM End	4.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.893582 °	37.893582 °
				-121.329108 °	-121.329108 °
DWR ID	DWR_RD0524_01_f _ 2015_199				
Action/Comments					
Tree or limb					
Inspector Comments: Remove dead tree from landward toe.					

Photo 1 of 1 : FA_2015_RD0524_107_199_20151023_00261.jpg



Looking west at dead tree on landward slope and toe 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	4.52	Rating **	U	Issue No.	102
LM End	4.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.892368 °	37.892368 °
				-121.328200 °	-121.328200 °
DWR ID	DWR_RD0524_01_s _ 2012_102				
Action/Comments					
Prunings					
Inspector Comments: Dead tree on waterward slope.					

Photo 1 of 2 : FA_2015_RD0524_107_102_20151023_00262.jpg



Looking southeast at dead tree on waterside slope fall 2015

LM Start	4.52	Rating **	U	Issue No.	102 (cont)
LM End	4.52	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0524_107_102_20150914_00121.jpg



Looking southeast at dead tree on waterside slope.

LM Start	4.53	Rating **	U	Issue No.	5
LM End	4.54	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.892230 °	37.892230 °
				-121.327930 °	-121.327930 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris. [2015 Site ID:RD0524U01RM45.07]					

Photo 1 of 2 : SJR2015_RD0524U01RM45.07_1.jpg



Front view of the erosion site.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	4.53	Rating **	U	Issue No.	5 (cont)	
LM End	4.54	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.892230 °	37.892230 °	
				-121.327930 °	-121.327930 °	
DWR ID						
Action/Comments						
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris. [2015 Site ID:RD0524U01RM45.07]						

Photo 2 of 2 : SJR2015_RD0524U01RM45.07_2.jpg



Close view of the site.

LM Start	4.60	Rating **	M	Issue No.	66
LM End	4.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.891365 °	37.891365 °
				-121.328633 °	-121.328633 °
DWR ID	DWR_RD0524_01_s_2012_66				
Action/Comments					
Garbage					

Photo 1 of 1 : FA_2015_RD0524_107_66_20150914_00090.jpg



Garbage at landward toe next to ramp at LM 4.64

LM Start	4.61	Rating **	U	Issue No.	63
LM End	4.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.891285 °	37.891285 °
				-121.328728 °	-121.328728 °
DWR ID	DWR_RD0524_01_s_2012_63				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_63_20150914_00088.jpg



Looking south at dense trees on landside 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	4.63	Rating **	M	Issue No.	113
LM End	4.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.890973 °	37.890973 °
				-121.328970 °	-121.328970 °
DWR ID	DWR_RD0524_01_s _ 2012_113				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_113_20150914_00129.jpg



Looking north at dense trees on landside slope.

LM Start	4.70	Rating **	M	Issue No.	67
LM End	4.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.890108 °	37.890108 °
				-121.329523 °	-121.329523 °
DWR ID	DWR_RD0524_01_s _ 2012_67				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Fig tree at landside toe.					

No Photos

LM Start	4.71	Rating **	C	Issue No.	15
LM End	4.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.889809 °	37.889809 °
				-121.329342 °	-121.329342 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: The erosion was repaired. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Cracking erosion along the levee bank. Erosion appears to be caused by river flows. [2015 Site ID:RD0524U01RM45.27]					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	4.90	Rating **	U	Issue No.	84
LM End	4.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.887655 °	37.887277 °
				-121.331202 °	-121.331609 °
DWR ID	DWR_RD0524_01_s_2012_84				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_84_20150914_00108.jpg



Looking northeast at untrimmed trees on landward slope.

LM Start	4.96	Rating **	U	Issue No.	114
LM End	4.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.886907 °	37.886673 °
				-121.331862 °	-121.331965 °
DWR ID	DWR_RD0524_01_s_2012_114				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense elderberry on landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_114_20151023_00263.jpg



Looking southwest at dense elderberry bush on landward slope and toe fall 2015.

LM Start	5.00	Rating **	U	Issue No.	71
LM End	5.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.886410 °	37.885286 °
				-121.332092 °	-121.332167 °
DWR ID	DWR_RD0524_01_s_2012_71				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_71_20150914_00092.jpg



Looking south at untrimmed trees on landward slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.07	Rating **	U	Issue No.	68
LM End	5.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.885400 °	37.885400 °
				-121.332153 °	-121.332153 °
DWR ID	DWR_RD0524_01_s _ 2012_68				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_68_20150914_00091.jpg



Looking south at overhanging trees.

LM Start	5.12	Rating **	U	Issue No.	188
LM End	5.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.884627 °	37.883965 °
				-121.332172 °	-121.332152 °
DWR ID	DWR_RD0524_01_s _ 2014_188				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Untrimmed trees on landward slope and toe.					

Photo 1 of 1 : FA_2015_RD0524_107_188_20151023_00264.jpg



Looking southwest at untrimmed trees on landward slope and toe.

LM Start	5.16	Rating **	A/W	Issue No.	72
LM End	5.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.884075 °	37.884075 °
				-121.332118 °	-121.332118 °
DWR ID	DWR_RD0524_01_s _ 2012_72				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.19	Rating **	M	Issue No.	115
LM End	5.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.883587 °	37.883587 °
				-121.332100 °	-121.332100 °
DWR ID	DWR_RD0524_01_s _ 2012_115				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Vehicle traffic created a ramp on landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_115_20150914_00130.jpg



Looking northwest at slope damage on landward slope.

LM Start	5.22	Rating **	M	Issue No.	116
LM End	5.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.883170 °	37.883170 °
				-121.332227 °	-121.332227 °
DWR ID	DWR_RD0524_01_s _ 2012_116				
Action/Comments					
Tree or limb					
Inspector Comments: Dead tree limbs on waterside slope.					

No Photos

LM Start	5.28	Rating **	U	Issue No.	85
LM End	5.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.882377 °	37.881498 °
				-121.332598 °	-121.332800 °
DWR ID	DWR_RD0524_01_s _ 2012_85				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_85_20150914_00109.jpg



Looking south at untrimmed trees on landward slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.38	Rating **	U	Issue No.	932
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.880945 °	37.880522 °
				-121.332837 °	-121.332918 °
DWR ID	DWR_RD0524_01_s _ 2012_932				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_932_20150914_00206.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	5.39	Rating **	M	Issue No.	178
LM End	5.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.880806 °	37.880806 °
				-121.332833 °	-121.332833 °
DWR ID	DWR_RD0524_01_f _ 2014_178				
Action/Comments					
Tree or limb					
Inspector Comments: Downed tree on landward toe.					

Photo 1 of 1 : FA_2015_RD0524_107_178_20150914_00168.jpg



Looking south at downed tree on landward slope.

LM Start	5.41	Rating **	A/W	Issue No.	931
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.880575 °	37.880575 °
				-121.332890 °	-121.332890 °
DWR ID	DWR_RD0524_01_s _ 2012_931				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA grouted rodent holes.					

Photo 1 of 2 : FA_2015_RD0524_107_931_20150914_00204.jpg



Looking north at typical view of grouted rodent holes on landward shoulder and 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.41	Rating **	A/W	Issue No.	931 (cont)
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.880575 °	37.880575 °
				-121.332890 °	-121.332890 °
DWR ID	DWR_RD0524_01_s_2012_931				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA grouted rodent holes.					

Photo 2 of 2 : FA_2015_RD0524_107_931_20150914_00205.jpg



Looking north at typical view of grouted rodent holes on waterward slope.

LM Start	5.42	Rating **	M	Issue No.	118
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.880323 °	37.880323 °
				-121.332968 °	-121.332968 °
DWR ID	DWR_RD0524_01_s_2012_118				
Action/Comments					
Repair slope instability.					
Inspector Comments: Slope damage caused by human activity.					

Photo 1 of 3 : FA_2015_RD0524_107_118_20150914_00131.jpg



Looking west at slope damage on landside slope.

LM Start	5.42	Rating **	M	Issue No.	118 (cont)
LM End	5.42	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2015_RD0524_107_118_20150914_00132.jpg



Looking southeast at damaged slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.42	Rating **	M	Issue No.	118 (cont)
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.880323 °	37.880323 °
				-121.332968 °	-121.332968 °
DWR ID	DWR_RD0524_01_s_2012_118				
Action/Comments					
Repair slope instability.					
Inspector Comments: Slope damage caused by human activity.					

Photo 3 of 3 : FA_2015_RD0524_107_118_20150914_00133.jpg



Looking east at slope caving on landside slope.

LM Start	5.43	Rating **	U	Issue No.	16
LM End	5.43	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.880320 °	37.880320 °
				-121.333266 °	-121.333266 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: The erosion seems to be getting worse. More material sloughing visible. 08/07/2012: The erosion is underneath an irrigation pipe. The likely cause of the erosion is the pipe leakage. [2015 Site ID:RD0524U01RM45.97]					

Photo 1 of 2 : SJR2015_RD0524U01RM45.97_2.jpg



Close view of the erosion and the pipe.

LM Start	5.43	Rating **	U	Issue No.	16 (cont)
LM End	5.43	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0524U01RM45.97_4.jpg



Front view of the site.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.44	Rating **	U	Issue No.	73
LM End	5.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.880085 °	37.880085 °
				-121.333045 °	-121.333045 °
DWR ID	DWR_RD0524_01_s _ 2012_73				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_73_20150914_00093.jpg



Looking east at untrimmed trees on landward slope.

LM Start	5.45	Rating **	M	Issue No.	189
LM End	5.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.879998 °	37.879998 °
				-121.333079 °	-121.333079 °
DWR ID	DWR_RD0524_01_s _ 2014_189				
Action/Comments					
Prunings Inspector Comments: Prunings on landward shoulder should be removed.					

No Photos

LM Start	5.52	Rating **	A/W	Issue No.	96
LM End	5.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.878918 °	37.878918 °
				-121.333148 °	-121.333148 °
DWR ID	DWR_RD0524_01_s _ 2012_96				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.53	Rating **	M	Issue No.	22
LM End	5.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878920 °	37.878920 °
				-121.332670 °	-121.332670 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site. [2015 Site ID:RD0524U01RM46.06]					



Front view of the erosion.

LM Start	5.53	Rating **	M	Issue No.	22 (cont)
LM End	5.53	Issue Type +	Ma	Location *	WS



Close view of the site. Note large trees at the levee shoulder.

LM Start	5.60	Rating **	C	Issue No.	29
LM End	5.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.877880 °	37.877880 °
				-121.332550 °	-121.332550 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: The erosion was repaired. 08/13/2013: The boat survey found no significant change at this site, except slight animal activity was visible at the site. 08/07/2012: : The site has been visited by boat survey. No significant change observed					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.64	Rating **	M	Issue No.	69
LM End	5.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.877298 °	37.875073 °
				-121.332343 °	-121.333168 °
DWR ID	DWR_RD0524_01_s_2012_69				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: District has grouted rodent holes.					

No Photos

LM Start	5.64	Rating **	M	Issue No.	117
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.877272 °	37.877272 °
				-121.332400 °	-121.332400 °
DWR ID	DWR_RD0524_01_f_2013_117				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	5.77	Rating **	U	Issue No.	196
LM End	5.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.875510 °	37.875510 °
				-121.332953 °	-121.332953 °
DWR ID	DWR_RD0524_01_s_2015_196				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Untrimmed tree on landward slope and toe.					

Photo 1 of 1 : FA_2015_RD0524_107_196_20151023_00265.jpg



Looking west at untrimmed tree at landward toe 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.79	Rating **	M	Issue No.	267
LM End	5.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.875328 °	37.875328 °
				-121.333050 °	-121.333050 °
DWR ID	DWR_RD0524_01_s _ 2012_267				
Action/Comments					
Prunings					
Inspector Comments: Prunings at landside toe should be burned or removed.					

Photo 1 of 1 : FA_2015_RD0524_107_267_20150914_00195.jpg



Looking east at pruning piles at landward toe and berm.

LM Start	5.79	Rating **	M	Issue No.	197
LM End	5.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.875310 °	37.875310 °
				-121.333065 °	-121.333065 °
DWR ID	DWR_RD0524_01_s _ 2015_197				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes on landward slope and levee crown.					

Photo 1 of 2 : FA_2015_RD0524_107_197_20150914_00182.jpg



Looking north at typical view of rodent holes on landward slope.

LM Start	5.79	Rating **	M	Issue No.	197 (cont)
LM End	5.79	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_197_20150914_00183.jpg



Looking southwest at typical view of rodent hole at landward shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.81	Rating **	U	Issue No.	198
LM End	5.81	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.874950 °	37.874950 °
				-121.333273 °	-121.333273 °
DWR ID	DWR_RD0524_01_s _ 2015_198				
Action/Comments					
Inspector Comments: Large erosion around irrigation pipe on waterward slope.					

LM Start	5.81	Rating **	U	Issue No.	198 (cont)
LM End	5.81	Issue Type +	Ma	Location *	WS

LM Start	5.81	Rating **	U	Issue No.	198 (cont)
LM End	5.81	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2015_RD0524_107_198_20150914_00184.jpg



Looking south at erosion around irrigation pipe on waterward slope.

Photo 2 of 3 : FA_2015_RD0524_107_198_20150914_00185.jpg



Looking east at erosion around irrigation pipe.

Photo 3 of 3 : FA_2015_RD0524_107_198_20150914_00186.jpg



Looking at erosion around pipe inside concrete collar.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.86	Rating **	U	Issue No.	47
LM End	5.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.874370 °	37.874370 °
				-121.332850 °	-121.332850 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion. [2015 Site ID:RD0524U01RM46.39]					



Close view of the erosion and the pipe.

LM Start	5.86	Rating **	U	Issue No.	47 (cont)
LM End	5.86	Issue Type +	Ma	Location *	WS



Front view of the site.

LM Start	5.86	Rating **	M	Issue No.	75
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.874240 °	37.874002 °
				-121.333187 °	-121.333027 °
DWR ID	DWR_RD0524_01_s_2012_75				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has grouted rodent holes, but other rodent holes have appeared.					



Looking southwest at typical rodent holes on waterward 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**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.86	Rating **	M	Issue No.	75 (cont)	
LM End	5.88	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.874240 °		37.874002 °
				-121.333187 °		-121.333027 °
DWR ID	DWR_RD0524_01_s_2012_75					
Action/Comments						
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has grouted rodent holes, but other rodent holes have appeared.						

Photo 2 of 2 : FA_2015_RD0524_107_75_20150914_00098.jpg



Looking typical view of several rodent holes on landward slope and toe.

LM Start	5.86	Rating **	M	Issue No.	74
LM End	5.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.874240 °	37.874165 °
				-121.333185 °	-121.333155 °
DWR ID	DWR_RD0524_01_s_2012_74				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Erosion on landward slope around intake pipe.					

Photo 1 of 3 : FA_2015_RD0524_107_74_20150914_00094.jpg



Looking southeast at erosion around pipe.

LM Start	5.86	Rating **	M	Issue No.	74 (cont)
LM End	5.87	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2015_RD0524_107_74_20150914_00095.jpg



Looking west at erosion around intake pipe on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.86	Rating **	M	Issue No.	74 (cont)	
LM End	5.87	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.874240 °	37.874165 °	
				-121.333185 °	-121.333155 °	
DWR ID	DWR_RD0524_01_s_2012_74					
Action/Comments						
Note and monitor erosion site.						
Inspector Comments: Erosion on landward slope around intake pipe.						

Photo 3 of 3 : FA_2015_RD0524_107_74_20150914_00096.jpg



Erosion at waterward toe and around irrigation pipe at LM 5.92

LM Start	5.89	Rating **	U	Issue No.	119
LM End	5.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.873893 °	37.873893 °
				-121.332978 °	-121.332978 °
DWR ID	DWR_RD0524_01_s_2012_119				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Landowner is using damaged area as a ramp.					

Photo 1 of 2 : FA_2015_RD0524_107_119_20150914_00134.jpg



Looking west at unauthorized ramp and landside slope damage.

LM Start	5.89	Rating **	U	Issue No.	119 (cont)
LM End	5.89	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_119_20150914_00135.jpg



Looking southwest at damaged slope and ramp on landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	5.92	Rating **	M	Issue No.	86
LM End	5.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.873678 °	37.873678 °
				-121.332550 °	-121.332550 °
DWR ID	DWR_RD0524_01_s _ 2012_86				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	5.92	Rating **	U	Issue No.	200
LM End	5.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.873623 °	37.873623 °
				-121.332585 °	-121.332585 °
DWR ID	DWR_RD0524_01_f _ 2015_200				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Oleander bush on landward slope.					

Photo 1 of 1 : FA_2015_RD0524_107_200_20151023_00266.jpg



Looking south at oleander on landward slope fall 2015.

LM Start	5.96	Rating **	U	Issue No.	120
LM End	5.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.873347 °	37.873347 °
				-121.332028 °	-121.332028 °
DWR ID	DWR_RD0524_01_s _ 2012_120				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_120_20150914_00136.jpg



Looking south at untrimmed trees on landward slope and toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	6.00	Rating **	M	Issue No.	933
LM End	6.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.873047 °	37.873047 °
				-121.331408 °	-121.331408 °
DWR ID	DWR_RD0524_01_s _ 2012_933				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: Landowner cut steps into landside slope.					

Photo 1 of 1 : FA_2015_RD0524_107_933_20150914_00207.jpg



Looking north at steps cut into landward slope.

LM Start	6.02	Rating **	M	Issue No.	191
LM End	6.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.872844 °	37.872844 °
				-121.331070 °	-121.331070 °
DWR ID	DWR_RD0524_01_s _ 2014_191				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Cactus at landward toe.					

No Photos

LM Start	6.15	Rating **	M	Issue No.	268
LM End	6.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.871137 °	37.871137 °
				-121.330138 °	-121.330138 °
DWR ID	DWR_RD0524_01_s _ 2012_268				
Action/Comments					
Pipe Inspector Comments: Open abandoned 10" pipe on waterside slope below flood elevation. Pipe should be removed or properly abandoned.					

Photo 1 of 1 : FA_2015_RD0524_107_268_20150914_00196.jpg



Looking southeast at abandoned pipe on waterside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	6.15	Rating **	U	Issue No.	81
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.871097 °	37.871097 °
				-121.330100 °	-121.330100 °
DWR ID	DWR_RD0524_01_s _ 2015_81				
Action/Comments					
Tree or limb					
Inspector Comments: Large tree fallen across levee crown blocking access.					

Photo 1 of 2 : FA_2015_RD0524_107_81_20150914_00105.jpg



Looking southwest at large tree across levee crown.

LM Start	6.15	Rating **	U	Issue No.	81 (cont)
LM End	6.15	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0524_107_81_20150914_00106.jpg



Looking south at large tree across levee crown.

LM Start	6.17	Rating **	U	Issue No.	98
LM End	6.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.870842 °	37.870842 °
				-121.330000 °	-121.330000 °
DWR ID	DWR_RD0524_01_s _ 2012_98				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0524_107_98_20150914_00118.jpg



Looking southeast at untrimmed trees at landward toe.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/21/2015 10/21/2015	Richard Willoughby

LM Start	6.17	Rating **	A/W	Issue No.	97
LM End	6.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.870840 °	37.870840 °
				-121.329993 °	-121.329993 °
DWR ID	DWR_RD0524_01_s _ 2012_97				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

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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