

**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 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	0.19	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 LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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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	0.21	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.

LM Start	0.21	Rating **	M	Issue No.	3 (cont)
LM End	0.21	Issue Type +	Ma	Location *	CR

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 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	0.27	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 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	0.30	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 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	0.40	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 instabilities 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 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	0.41	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 instabilities 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 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	0.62	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.					

Photo 3 of 4 : FA_2015_RD0524_107_11_20150914_00013.jpg



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

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

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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 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	0.64	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.					

Photo 1 of 4 : FA_2015_RD0524_107_13_20151023_00243.jpg



Looking southeast at depression on waterward shoulder fall 2015

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

Photo 2 of 4 : FA_2015_RD0524_107_13_20150914_00018.jpg



Looking south at erosion on waterside shoulder.

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

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 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 (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.					



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.					



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



* 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	0.67	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 erosion site is immediately 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 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	0.77	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.					

Photo 2 of 3 : FA_2015_RD0524_107_262_20150914_00188.jpg



Looking west at dense vegetation on landside toe. Spring 2014

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

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

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 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 **	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]					



Close view of the erosion.

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



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.					



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	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]					



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.					



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



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 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	1.08	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 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	1.13	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 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	1.15	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 °
DWR ID				-121.329110 °	-121.329110 °
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]					



Direct view of the site.

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



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.					



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]					



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.					



Looking west at pipe on landside slope.

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

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 surveyed 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 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	1.45	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]					



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



Close view of the erosion.

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



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 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	1.49	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.					

Photo 1 of 4 : FA_2015_RD0524_107_916_20151023_00247.jpg



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

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

Photo 2 of 4 : FA_2015_RD0524_107_916_20150914_00199.jpg



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

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

Photo 3 of 4 : FA_2015_RD0524_107_916_20150914_00200.jpg



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

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

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 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	1.55	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.					

Photo 3 of 5 : FA_2015_RD0524_107_23_20150914_00037.jpg



Looking east from landward berm at corrected site.

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

Photo 4 of 5 : FA_2015_RD0524_107_23_20150914_00038.jpg



Looking south from levee crown at corrected site.

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

Photo 5 of 5 : FA_2015_RD0524_107_23_20150914_00039.jpg



Looking south from levee crown at upstream end of corrected 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	1.56	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					

Photo 1 of 2 : SJR2015_RD0524U01RM42.20_1.jpg



Front view of the site where undermining has occurred.

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

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 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	1.58	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 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	1.60	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.					

Photo 2 of 3 : FA_2015_RD0524_107_24_20150914_00040.jpg



Looking south at vegetation blocking view of landward toe.

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

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					

Photo 1 of 3 : FA_2015_RD0524_107_45_20150914_00067.jpg



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

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

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 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
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 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	1.75	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 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	1.94	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]					



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]					



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.					



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]					



View from upstream.

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

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 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	2.27	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.					



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.					



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

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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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	2.33	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 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	2.44	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 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	2.49	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 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 (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 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	2.53	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 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	2.58	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 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	2.64	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 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	2.67	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 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	2.70	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 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	2.80	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 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	2.86	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 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	2.93	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 LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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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	3.07	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 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	3.27	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]					



Front view of the erosion.

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



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 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	3.42	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 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	3.51	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 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	3.65	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 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	3.78	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 LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

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 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	4.02	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 M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

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 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	4.52	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]					



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					



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.					



Looking south at dense trees on landside slope.

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

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 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	4.90	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 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	5.19	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 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	5.38	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 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	5.42	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 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	5.44	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 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	5.53	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 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	5.64	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 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	5.79	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 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	5.81	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.					

Photo 1 of 3 : FA_2015_RD0524_107_198_20150914_00184.jpg



Looking south at 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

Photo 2 of 3 : FA_2015_RD0524_107_198_20150914_00185.jpg



Looking east at erosion around irrigation pipe.

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

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 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 **	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 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 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.	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 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	5.92	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 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	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 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	6.15	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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