

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	U	Issue No.	<b>121</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			o	
DWR ID	DWR_RD0524_01_s_2012_121				
Comment Code					
Inspector Comment					
The LMA does not have a copy of the O&M Manual on file.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>123</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			o	
DWR ID	DWR_RD0524_01_s_2012_123				
Comment Code					
Inspector Comment					
No recent training.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>138</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			o	
DWR ID	DWR_RD0524_01_s_2013_138				
Comment Code					
Inspector Comment					
The LMA does not appear to have emergency supplies or equipment.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>203</b>
LM End	<b>6.20</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.941208 °	37.870388 °	
			-121.346222 °	-121.329840 °	
DWR ID	DWR_RD0524_01_s_2016_203				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>204</b>
LM End	<b>6.20</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.941208 °	37.870388 °	
			-121.346222 °	-121.329840 °	
DWR ID	DWR_RD0524_01_s_2016_204				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.19</b>	Rating **	U	Issue No.	<b>129</b>
LM End	<b>0.19</b>	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	DWR_RD0524_01_s_2016_129				
Comment Code					
Inspector Comment					
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 : SP\_2016\_RD0524\_107\_129\_20160404\_00169.jpg



Front view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.19</b>	Rating **	U	Issue No.	<b>129 (cont)</b>
LM End	<b>0.19</b>	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	DWR_RD0524_01_s_2016_129				
Comment Code					
Inspector Comment					
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 2 of 2 : SP\_2016\_RD0524\_107\_129\_20160404\_00170.jpg



Close view of the erosion.

LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>3</b>
LM End	<b>0.21</b>	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_2016_3				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
No change in status.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_3\_20160404\_00006.jpg



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

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

Photo 2 of 3 : SP\_2016\_RD0524\_107\_3\_20160404\_00007.jpg



Looking west at depression on levee crown near waterward shoulder.

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>0.21</b>	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_2016_3				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
No change in status.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_3\_20160404\_00008.jpg



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

LM Start	<b>0.27</b>	Rating **	U	Issue No.	<b>179</b>
LM End	<b>0.27</b>	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				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Tree blocking view of waterward slope.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_179\_20160414\_00340.jpg



Looking south at untrimmed tree on waterward slope (Spring 2016)

LM Start	<b>0.27</b>	Rating **	U	Issue No.	<b>179 (cont)</b>
LM End	<b>0.27</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2016\_RD0524\_107\_179\_20160404\_00201.jpg



Looking north at untrimmed tree on waterward slope. (Spring 2015)

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.27</b>	Rating **	U	Issue No.	<b>179 (cont)</b>
LM End	<b>0.27</b>	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				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Tree blocking view of waterward slope.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_179\_20160404\_00202.jpg



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

LM Start	<b>0.30</b>	Rating **	U	Issue No.	<b>174</b>
LM End	<b>0.30</b>	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes present at this site. No change at site during spring 2016 inspection.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_174\_20160404\_00194.jpg



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

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

Photo 2 of 3 : SP\_2016\_RD0524\_107\_174\_20160404\_00195.jpg



Looking west at several rodent holes on waterward shoulder. (Spring 2015)

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.30</b>	Rating **	U	Issue No.	<b>174 (cont)</b>
LM End	<b>0.30</b>	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes present at this site. No change at site during spring 2016 inspection.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_174\_20160404\_00196.jpg



Looking southeast at several rodent holes on waterward slope.

LM Start	<b>0.34</b>	Rating **	M	Issue No.	<b>180</b>
LM End	<b>0.34</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion is located along the lower level of waterward slope.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_180\_20160404\_00203.jpg



Looking southeast at erosion on waterward toe.

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_180\_20160404\_00204.jpg



Looking northeast at erosion on waterward toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>131</b>
LM End	<b>0.40</b>	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	DWR_RD0524_01_s_2016_131				
Comment Code					
Inspector Comment					
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 : SP\_2016\_RD0524\_107\_131\_20160404\_00171.jpg



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

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_131\_20160404\_00172.jpg



Close view of the erosion.

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>205</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938625 °	37.938695 °
				-121.340479 °	-121.339420 °
DWR ID	DWR_RD0524_01_s_2016_205				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Several damage site within this reach.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_205\_20160414\_00342.jpg



Looking north at slope damage on landward slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>205 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938625 °	37.938695 °
				-121.340479 °	-121.339420 °
DWR ID	DWR_RD0524_01_s_2016_205				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Several damage site within this reach.					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_205\_20160414\_00343.jpg



Looking south at slope damage on landward slope.

LM Start	<b>0.41</b>	Rating **	U	Issue No.	<b>170</b>
LM End	<b>0.45</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Several slope instabilites within this reach.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_170\_20160414\_00344.jpg



Looking east at slope damage on waterward shoulder (Spring 2016)

LM Start	<b>0.41</b>	Rating **	U	Issue No.	<b>170 (cont)</b>
LM End	<b>0.45</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2016\_RD0524\_107\_170\_20160404\_00188.jpg



Looking south at slope damage on waterward shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.41</b>	Rating **	U	Issue No.	<b>170 (cont)</b>
LM End	<b>0.45</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Several slope instabilities within this reach.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_170\_20160404\_00189.jpg



Looking east at waterward slope erosion.

LM Start	<b>0.62</b>	Rating **	U	Issue No.	<b>11</b>
LM End	<b>0.63</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Bamboo on waterward slope. Bamboo has been killed but still blocking view of waterward slope.					

Photo 1 of 5 : SP\_2016\_RD0524\_107\_11\_20160414\_00345.jpg



Looking southeast at bamboo on waterward slope. (Spring 2016)

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

Photo 2 of 5 : SP\_2016\_RD0524\_107\_11\_20160404\_00014.jpg



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

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.62</b>	Rating **	U	Issue No.	<b>11 (cont)</b>
LM End	<b>0.63</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Bamboo on waterward slope. Bamboo has been killed but still blocking view of waterward slope.					

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

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

Photo 3 of 5 : SP\_2016\_RD0524\_107\_11\_20160404\_00015.jpg



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

Photo 4 of 5 : SP\_2016\_RD0524\_107\_11\_20160404\_00016.jpg



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

Photo 5 of 5 : SP\_2016\_RD0524\_107\_11\_20160404\_00017.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.63</b>	Rating **	U	Issue No.	<b>10</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938247 °	37.938247 °
				-121.336503 °	-121.336503 °
DWR ID	DWR_RD0524_01_f_2015_10				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion located next to and under bamboo.					

LM Start	<b>0.63</b>	Rating **	U	Issue No.	<b>10 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2016\_RD0524\_107\_10\_20160404\_00013.jpg



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

Photo 2 of 3 : SP\_2016\_RD0524\_107\_10\_20160414\_00347.jpg



LM Start	<b>0.63</b>	Rating **	U	Issue No.	<b>10 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2016\_RD0524\_107\_10\_20160414\_00346.jpg



Looking east at erosion under bamboo on waterward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.64</b>	Rating **	M	Issue No.	<b>13</b>
LM End	<b>0.65</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression extend from shoulder to mid levee slope two site with this section.					

Photo 1 of 4 : SP\_2016\_RD0524\_107\_13\_20160404\_00019.jpg



Looking southeast at depression on waterward shoulder fall 2015

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

Photo 2 of 4 : SP\_2016\_RD0524\_107\_13\_20160404\_00020.jpg



Looking south at erosion on waterside shoulder.

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

Photo 3 of 4 : SP\_2016\_RD0524\_107\_13\_20160404\_00021.jpg



View of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.64</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.65</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression extend from shoulder to mid levee slope two site with this section.					

Photo 4 of 4 : SP\_2016\_RD0524\_107\_13\_20160404\_00022.jpg



Update view of the erosion site.

LM Start	<b>0.67</b>	Rating **	U	Issue No.	<b>14</b>
LM End	<b>0.67</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Bamboo on waterward slope. Bamboo has been killed but still blocking view of levee slope.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_14\_20160404\_00023.jpg



Looking south at dying bamboo on waterward slope. Fall 2015

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

Photo 2 of 3 : SP\_2016\_RD0524\_107\_14\_20160404\_00024.jpg



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

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.67</b>	Rating **	U	Issue No.	<b>14 (cont)</b>
LM End	<b>0.67</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Bamboo on waterward slope. Bamboo has been killed but still blocking view of levee slope.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_14\_20160404\_00025.jpg



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

LM Start	<b>0.71</b>	Rating **	M	Issue No.	<b>132</b>
LM End	<b>0.73</b>	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	DWR_RD0524_01_s_2016_132				
Comment Code					
Inspector Comment					
06/24/2015: The erosion site is immediately downstream of the RR bridge. [2015 Site ID:RD0524U01RM41.36]					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_132\_20160404\_00173.jpg



Close view of the erosion.

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_132\_20160404\_00174.jpg



Front view of the erosion.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.76</b>	Rating **	U	Issue No.	<b>133</b>
LM End	<b>0.77</b>	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	DWR_RD0524_01_s_2016_133				
Comment Code					
Inspector Comment					
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 bridge. Dense vegetation at the water line blocks the view of erosion. [2015 Site ID:RD0524U01RM41.39]					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_133\_20160404\_00175.jpg



Front view of the erosion site.

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_133\_20160404\_00176.jpg



Front view of the erosion site. Vegetation is visible.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.77</b>	Rating **	U	Issue No.	<b>262</b>
LM End	<b>0.77</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation at landside toe along fence line.					

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

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

Photo 1 of 3 : SP\_2016\_RD0524\_107\_262\_20160404\_00223.jpg



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

Photo 2 of 3 : SP\_2016\_RD0524\_107\_262\_20160404\_00224.jpg



Looking west at dense vegetation on landside toe. Spring 2014

Photo 3 of 3 : SP\_2016\_RD0524\_107\_262\_20160404\_00225.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.78</b>	Rating **	U	Issue No.	<b>76</b>
LM End	<b>0.78</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_76\_20160404\_00111.jpg



Looking southwest at low hanging tree branches at landside toe.

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2</b>
LM End	<b>0.81</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
One large hole. Hole is over 12" deep and 12" wide and several holes and finger erosions on landward slope.					

Photo 1 of 6 : SP\_2016\_RD0524\_107\_2\_20160414\_00348.jpg



Looking west at large hole on landward shoulder (Spring 2016)

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

Photo 2 of 6 : SP\_2016\_RD0524\_107\_2\_20160404\_00001.jpg



Looking southwest at hole on landward shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.81</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
One large hole. Hole is over 12" deep and 12" wide and several holes and finger erosions on landward slope.					

Photo 3 of 6 : SP\_2016\_RD0524\_107\_2\_20160404\_00002.jpg



Looking west at hole on landward shoulder.

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

Photo 4 of 6 : SP\_2016\_RD0524\_107\_2\_20160404\_00003.jpg



Looking southeast at finger erosion on landward slope.

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

Photo 5 of 6 : SP\_2016\_RD0524\_107\_2\_20160404\_00004.jpg



Looking east at erosion on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.81</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
One large hole. Hole is over 12" deep and 12" wide and several holes and finger erosions on landward slope.					

Photo 6 of 6 : SP\_2016\_RD0524\_107\_2\_20160404\_00005.jpg



Looking northeast at several finger erosion on landward slope.

LM Start	<b>0.83</b>	Rating **	U	Issue No.	<b>134</b>
LM End	<b>0.84</b>	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	DWR_RD0524_01_s_2016_134				
Comment Code					
Inspector Comment					
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 : SP\_2016\_RD0524\_107\_134\_20160404\_00177.jpg



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

LM Start	<b>0.83</b>	Rating **	U	Issue No.	<b>134 (cont)</b>
LM End	<b>0.84</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0524\_107\_134\_20160404\_00178.jpg



The erosion is invisible because of the dense vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.91</b>	Rating **	U	Issue No.	<b>135</b>
LM End	<b>0.91</b>	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	DWR_RD0524_01_s_2016_135				
Comment Code					
Inspector Comment					
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 : SP\_2016\_RD0524\_107\_135\_20160404\_00179.jpg



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

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_135\_20160404\_00180.jpg



A close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>0.92</b>	Rating **	M	Issue No.	<b>122</b>
LM End	<b>0.92</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.935267 °	37.935267 °	
			-121.332985 °	-121.332985 °	
DWR ID	DWR_RD0524_01_s_2013_122				
Comment Code					
PI : Pipe					
Inspector Comment					
Inch and half metal pipe should be removed.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_122\_20160404\_00164.jpg



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

LM Start	<b>0.93</b>	Rating **	U	Issue No.	<b>77</b>
LM End	<b>1.01</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.935259 °	37.935049 °	
			-121.332864 °	-121.331334 °	
DWR ID	DWR_RD0524_01_s_2012_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_77\_20160404\_00112.jpg



Looking south at low hanging tree branches at landside toe.

LM Start	<b>0.96</b>	Rating **	M	Issue No.	<b>20</b>
LM End	<b>0.96</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.935181 °	37.935181 °	
			-121.332297 °	-121.332297 °	
DWR ID	DWR_RD0524_01_f_2013_20				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>17</b>
LM End	<b>1.02</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion was noted next to repaired site.					

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>17 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>17 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2016\_RD0524\_107\_17\_20160414\_00349.jpg



Looking northeast at erosion next to repaired site. (Spring 2016)

Photo 2 of 4 : SP\_2016\_RD0524\_107\_17\_20160404\_00028.jpg



Looking upstream (south) at erosion site. (Spring 2015)

Photo 3 of 4 : SP\_2016\_RD0524\_107\_17\_20160404\_00029.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>17 (cont)</b>
LM End	<b>1.02</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion was noted next to repaired site.					

Photo 4 of 4 : SP\_2016\_RD0524\_107\_17\_20160404\_00030.jpg



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

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>137</b>
LM End	<b>1.00</b>	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	DWR_RD0524_01_s_2016_137				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The erosion was discovered during the boat survey. [2015 Site ID:RD0524U01RM41.58]					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_137\_20160404\_00182.jpg



Close view of the erosion.

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_137\_20160404\_00183.jpg



Front view of the erosion.

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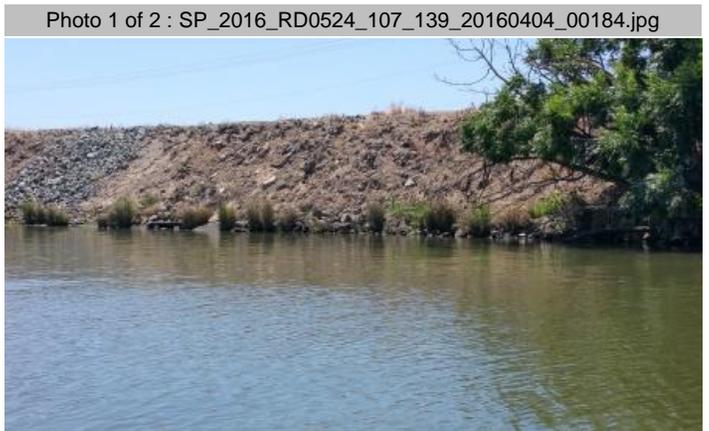
**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.02</b>	Rating **	U	Issue No.	<b>139</b>
LM End	<b>1.02</b>	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	DWR_RD0524_01_s_2016_139				
Comment Code					
Inspector Comment					
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]					



Front view of the site.

LM Start	<b>1.02</b>	Rating **	U	Issue No.	<b>139 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.08</b>	Rating **	U	Issue No.	<b>18</b>
LM End	<b>1.08</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage extend from shoulder to middle of slope.					

Photo 1 of 7 : SP\_2016\_RD0524\_107\_18\_20160404\_00031.jpg



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

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

Photo 2 of 7 : SP\_2016\_RD0524\_107\_18\_20160404\_00032.jpg



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

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

Photo 3 of 7 : SP\_2016\_RD0524\_107\_18\_20160404\_00033.jpg



Landward slope damage. Spring 2014

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.08</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>1.08</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage extend from shoulder to middle of slope.					

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

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

Photo 4 of 7 : SP\_2016\_RD0524\_107\_18\_20160404\_00034.jpg



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

Photo 5 of 7 : SP\_2016\_RD0524\_107\_18\_20160404\_00035.jpg



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

Photo 6 of 7 : SP\_2016\_RD0524\_107\_18\_20160404\_00036.jpg



Looking at updated slope stability as of Fall 2013.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.08</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>1.08</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage extend from shoulder to middle of slope.					



Updated view from above the slope stability.

LM Start	<b>1.12</b>	Rating **	M	Issue No.	<b>171</b>
LM End	<b>1.16</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings left on waterward shoulder and slope.					



Looking south at prunings on waterward shoulders.

LM Start	<b>1.13</b>	Rating **	A/W	Issue No.	<b>175</b>
LM End	<b>1.13</b>	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				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.16</b>	Rating **	U	Issue No.	<b>915 (cont)</b>
LM End	<b>1.23</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control veg at landward toe and berm.					

Photo 2 of 3 : SP\_2016\_RD0524\_107\_915\_20160414\_00351.jpg



Looking southwest at dense veg at landward toe and berm. (Spring 2016)

LM Start	<b>1.16</b>	Rating **	U	Issue No.	<b>915 (cont)</b>
LM End	<b>1.23</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2016\_RD0524\_107\_915\_20160404\_00234.jpg



Looking southwest at dense veg. on landside toe. (Spring 2015)

LM Start	<b>1.17</b>	Rating **	U	Issue No.	<b>206</b>
LM End	<b>1.17</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.933591 °	37.933591 °
				-121.329154 °	-121.329154 °
DWR ID	DWR_RD0524_01_s_2016_206				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_206\_20160414\_00352.jpg



Looking southwest a untrimmed tree at landward toe. (Spring 2016)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.29</b>	Rating **	U	Issue No.	<b>55</b>
LM End	<b>1.32</b>	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	DWR_RD0524_01_s_2016_55				
Comment Code					
Inspector Comment					
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	<b>1.30</b>	Rating **	U	Issue No.	<b>33</b>
LM End	<b>1.30</b>	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				
Comment Code					
PI : Pipe					
Inspector Comment					
Pipe is not in use and should be properly removed.					



Looking west at pipe on landside slope.

LM Start	<b>1.30</b>	Rating **	U	Issue No.	<b>33 (cont)</b>
LM End	<b>1.30</b>	Issue Type +	Ma	Location *	WS



Looking north at broken pipe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.32</b>	Rating **	M	Issue No.	<b>130</b>
LM End	<b>1.36</b>	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				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	<b>1.36</b>	Rating **	U	Issue No.	<b>172</b>
LM End	<b>1.40</b>	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				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Levee crown depression several inches below original crown elevation. Section should be survey to determine proper elevation.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_172\_20160404\_00191.jpg



Looking east at depression on levee crown.

LM Start	<b>1.36</b>	Rating **	U	Issue No.	<b>172 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2016\_RD0524\_107\_172\_20160404\_00192.jpg



Looking southeast at depression on levee crown.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>79</b>
LM End	<b>1.39</b>	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	DWR_RD0524_01_s_2016_79				
Comment Code					
Inspector Comment					
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]					



Front view of the erosion.

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



Close view of the erosion.

LM Start	<b>1.45</b>	Rating **	U	Issue No.	<b>89</b>
LM End	<b>1.47</b>	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	DWR_RD0524_01_s_2016_89				
Comment Code					
Inspector Comment					
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.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.45</b>	Rating **	U	Issue No.	<b>89 (cont)</b>
LM End	<b>1.47</b>	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	DWR_RD0524_01_s_2016_89				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: The site is located approximately 400 ft. downstream SR 4 Bridge. Dense vegetation is visible at the toe. [2015 Site ID:RD0524U01RM42.09]					

Photo 2 of 3 : SP\_2016\_RD0524\_107\_89\_20160404\_00126.jpg



Close view of the erosion.

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

Photo 3 of 3 : SP\_2016\_RD0524\_107\_89\_20160404\_00127.jpg



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

LM Start	<b>1.49</b>	Rating **	U	Issue No.	<b>916</b>
LM End	<b>1.49</b>	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				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees and dense vegetation on landward toe.					

Photo 1 of 4 : SP\_2016\_RD0524\_107\_916\_20160404\_00235.jpg



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

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.49</b>	Rating **	U	Issue No.	<b>916 (cont)</b>
LM End	<b>1.49</b>	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				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees and dense vegetation on landward toe.					

Photo 2 of 4 : SP\_2016\_RD0524\_107\_916\_20160404\_00236.jpg



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

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

Photo 3 of 4 : SP\_2016\_RD0524\_107\_916\_20160404\_00237.jpg



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

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

Photo 4 of 4 : SP\_2016\_RD0524\_107\_916\_20160404\_00238.jpg



Dense vegetation on landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.55</b>	Rating **	A/W	Issue No.	<b>23</b>
LM End	<b>1.59</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 5 : SP\_2016\_RD0524\_107\_23\_20160404\_00043.jpg



Overgrown landscaping on landward slope from LM 1.56 to 1.74

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

Photo 2 of 5 : SP\_2016\_RD0524\_107\_23\_20160404\_00044.jpg



Looking north from landward berm at corrected site.

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

Photo 3 of 5 : SP\_2016\_RD0524\_107\_23\_20160404\_00045.jpg



Looking east from landward berm at corrected site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.55</b>	Rating **	A/W	Issue No.	<b>23 (cont)</b>
LM End	<b>1.59</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 4 of 5 : SP\_2016\_RD0524\_107\_23\_20160404\_00046.jpg



Looking south from levee crown at corrected site.

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

Photo 5 of 5 : SP\_2016\_RD0524\_107\_23\_20160404\_00047.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.56</b>	Rating **	U	Issue No.	<b>90</b>
LM End	<b>1.62</b>	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	DWR_RD0524_01_s_2016_90				
Comment Code					
Inspector Comment					
<p>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 still in place.                  09/07/2010: No significant change observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection.                  09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank. [2015 Site ID:RD0524U01RM42.2]</p>					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_90\_20160404\_00128.jpg



Front view of the site where undermining has occurred.

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_90\_20160404\_00129.jpg



Close view of the erosion at the levee toe.

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.58</b>	Rating **	U	Issue No.	<b>173</b>
LM End	<b>1.58</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree is located on landward shoulder and crown should be removed.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_173\_20160404\_00193.jpg



Looking northwest at tree on within levee crown.

LM Start	<b>1.59</b>	Rating **	M	Issue No.	<b>136</b>
LM End	<b>1.59</b>	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				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Waterward shoulder caving.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_136\_20160404\_00181.jpg



Looking south at depression on levee crown near waterward shoulder.

LM Start	<b>1.60</b>	Rating **	U	Issue No.	<b>24</b>
LM End	<b>1.61</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation blocking landward toe.					

Photo 1 of 4 : SP\_2016\_RD0524\_107\_24\_20160414\_00353.jpg



Looking southwest at dense veg on landward slope and toe. (Spring 2016)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.60</b>	Rating **	U	Issue No.	<b>24 (cont)</b>
LM End	<b>1.61</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation blocking landward toe.					

Photo 2 of 4 : SP\_2016\_RD0524\_107\_24\_20160414\_00354.jpg



Looking northwest at dense veg on landward slope and toe. (Spring 2016)

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

Photo 3 of 4 : SP\_2016\_RD0524\_107\_24\_20160404\_00048.jpg



Looking southwest at dense vegetation on landward slope fall 2015

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

Photo 4 of 4 : SP\_2016\_RD0524\_107\_24\_20160404\_00049.jpg



Looking south at vegetation blocking view of landward toe. (Spring 2014)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.60</b>	Rating **	A/W	Issue No.	<b>25</b>
LM End	<b>1.61</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					



Looking southeast at dense vegetation on the waterside slope.

LM Start	<b>1.62</b>	Rating **	M	Issue No.	<b>26</b>
LM End	<b>1.64</b>	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				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions along this reach.					



Looking south at waterward erosion.

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



Looking east at waterward erosion.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.62</b>	Rating **	M	Issue No.	<b>26 (cont)</b>
LM End	<b>1.64</b>	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				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions along this reach.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_26\_20160404\_00054.jpg



Looking east at waterward erosion and depression.

LM Start	<b>1.65</b>	Rating **	N	Issue No.	<b>8</b>
LM End	<b>1.68</b>	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				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Several tree stumps on waterside shoulder.					

No Photos

LM Start	<b>1.67</b>	Rating **	U	Issue No.	<b>45</b>
LM End	<b>1.67</b>	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				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs and retaining wall					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_45\_20160404\_00077.jpg



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

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.67</b>	Rating **	U	Issue No.	<b>45 (cont)</b>
LM End	<b>1.67</b>	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				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs and retaining wall					

Photo 2 of 3 : SP\_2016\_RD0524\_107\_45\_20160404\_00078.jpg



Looking southwest at retaning wall connected to concrete stairs.

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

Photo 3 of 3 : SP\_2016\_RD0524\_107\_45\_20160404\_00079.jpg



Looking west at concrete stairs on waterside slope.

LM Start	<b>1.69</b>	Rating **	M	Issue No.	<b>27</b>
LM End	<b>1.70</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage several feet long and greater than one inch deep.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_27\_20160404\_00055.jpg



Looking south at landward slope depression.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.73</b>	Rating **	U	Issue No.	<b>28</b>
LM End	<b>1.73</b>	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				
Comment Code					
GA : Garbage					
Inspector Comment					
Large pruning piles on landside slope.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_28\_20160414\_00357.jpg



Looking west at prunings at landward toe. (Spring 2016)

LM Start	<b>1.73</b>	Rating **	U	Issue No.	<b>28 (cont)</b>
LM End	<b>1.73</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0524\_107\_28\_20160404\_00056.jpg



Looking west at pruning pile at landward toe fall 2015.

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46</b>
LM End	<b>1.76</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limbs on landward slope.					

Photo 1 of 4 : SP\_2016\_RD0524\_107\_46\_20160404\_00080.jpg



Looking south at tree limbs on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>1.76</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limbs on landward slope.					

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

Photo 2 of 4 : SP\_2016\_RD0524\_107\_46\_20160404\_00081.jpg



Looking southwest at tree limbs on landward slope.

Photo 3 of 4 : SP\_2016\_RD0524\_107\_46\_20160404\_00082.jpg



Looking south at tree limbs on landward slope.

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

Photo 4 of 4 : SP\_2016\_RD0524\_107\_46\_20160404\_00083.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.76</b>	Rating **	C	Issue No.	<b>181</b>
LM End	<b>1.76</b>	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				
Comment Code					
MA : Material					
Inspector Comment					
Pallets were removed by landowner.					

No Photos

LM Start	<b>1.78</b>	Rating **	C	Issue No.	<b>100</b>
LM End	<b>1.78</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
All prunings removed by landowner.					

No Photos

LM Start	<b>1.94</b>	Rating **	U	Issue No.	<b>176</b>
LM End	<b>1.94</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Landward caving (3 x 18" x 5 ) caused by broken sprinklers.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_176\_20160404\_00197.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>1.94</b>	Rating **	U	Issue No.	<b>176 (cont)</b>
LM End	<b>1.94</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Landward caving (3 x 18" x 5 ) caused by broken sprinklers.					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_176\_20160404\_00198.jpg



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

LM Start	<b>2.08</b>	Rating **	A/W	Issue No.	<b>183</b>
LM End	<b>2.08</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is outside the twenty foot zone on waterward slope.					

No Photos

LM Start	<b>2.13</b>	Rating **	A/W	Issue No.	<b>6</b>
LM End	<b>2.19</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

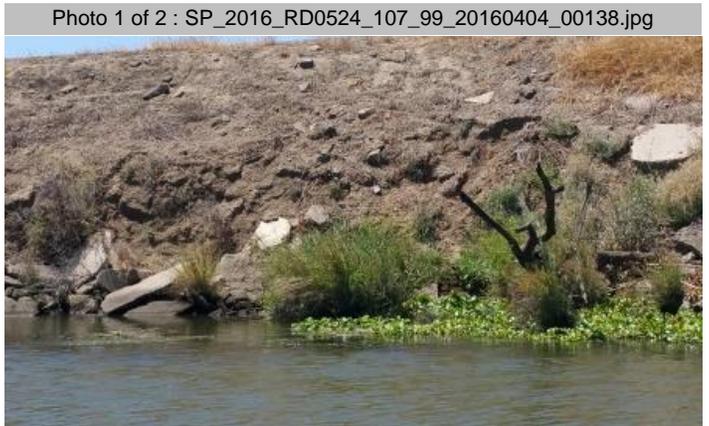
**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.15</b>	Rating **	A/W	Issue No.	<b>30</b>
LM End	<b>2.16</b>	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				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

LM Start	<b>2.19</b>	Rating **	U	Issue No.	<b>99</b>
LM End	<b>2.19</b>	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	DWR_RD0524_01_s_2016_99				
Comment Code					
Inspector Comment					
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.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.19</b>	Rating **	U	Issue No.	<b>99 (cont)</b>
LM End	<b>2.19</b>	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	DWR_RD0524_01_s_2016_99				
Comment Code					
Inspector Comment					
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]					



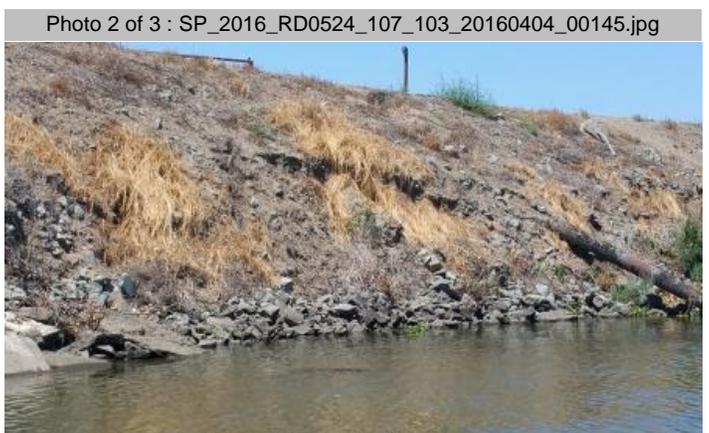
Front view of the erosion.

LM Start	<b>2.24</b>	Rating **	U	Issue No.	<b>103</b>
LM End	<b>2.27</b>	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	DWR_RD0524_01_s_2016_103				
Comment Code					
Inspector Comment					
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.

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



Close view of the erosion. Note the irrigation pipe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.24</b>	Rating **	U	Issue No.	<b>103 (cont)</b>
LM End	<b>2.27</b>	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	DWR_RD0524_01_s_2016_103				
Comment Code					
Inspector Comment					
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.

LM Start	<b>2.25</b>	Rating **	U	Issue No.	<b>31</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.920493 °	37.920493 °
				-121.320565 °	-121.320565 °
DWR ID	DWR_RD0524_01_s_2012_31				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope instability probably cause by leak in irrigation pipe. Pipe should be inspected internally.					



Looking south at siphon on waterward slope.

LM Start	<b>2.25</b>	Rating **	U	Issue No.	<b>31 (cont)</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	WS



Looking east at siphon on waterward slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.25</b>	Rating **	U	Issue No.	<b>31 (cont)</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.920493 °	37.920493 °
				-121.320565 °	-121.320565 °
DWR ID	DWR_RD0524_01_s_2012_31				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope instability probably cause by leak in irrigation pipe. Pipe should be inspected internally.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_31\_20160404\_00057.jpg



Looking south slope damage on waterward shoulder and slope.

LM Start	<b>2.27</b>	Rating **	U	Issue No.	<b>32</b>
LM End	<b>2.29</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry bushes on landward slope and toe.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_32\_20160404\_00058.jpg



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

LM Start	<b>2.27</b>	Rating **	U	Issue No.	<b>32 (cont)</b>
LM End	<b>2.29</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0524\_107\_32\_20160404\_00059.jpg



Looking south at dense veg on landside slope and toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.27</b>	Rating **	U	Issue No.	<b>208</b>
LM End	<b>2.27</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.920341 °	37.920341 °
				-121.320244 °	-121.320244 °
DWR ID	DWR_RD0524_01_s_2016_208				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile on landward shoulder and slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_208\_20160414\_00360.jpg



Looking west at large pruning pile on landward slope.

LM Start	<b>2.32</b>	Rating **	M	Issue No.	<b>34</b>
LM End	<b>2.33</b>	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				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by walking traffic and using bank as a fishing platform.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_34\_20160404\_00062.jpg



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

LM Start	<b>2.33</b>	Rating **	U	Issue No.	<b>107</b>
LM End	<b>2.33</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_107\_20160414\_00361.jpg



Looking northwest at untrimmed trees at landward toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.38</b>	Rating **	M	Issue No.	<b>184</b>
LM End	<b>2.38</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	<b>2.41</b>	Rating **	U	Issue No.	<b>35</b>
LM End	<b>2.45</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_35\_20160404\_00063.jpg



Looking southwest at dense vegetation on landward toe.

LM Start	<b>2.44</b>	Rating **	M	Issue No.	<b>36</b>
LM End	<b>2.47</b>	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				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_36\_20160404\_00064.jpg



Looking east at erosion on waterside slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.45</b>	Rating **	U	Issue No.	<b>80</b>
LM End	<b>2.45</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_80\_20160414\_00362.jpg



Looking west at untrimmed trees at landward toe.

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37</b>
LM End	<b>2.50</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 4 : SP\_2016\_RD0524\_107\_37\_20160404\_00065.jpg



Looking south at elderberry on landside slope.

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

Photo 2 of 4 : SP\_2016\_RD0524\_107\_37\_20160404\_00066.jpg



Looking southwest at dense vegetation on landside toe.

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

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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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37 (cont)</b>
LM End	<b>2.50</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 3 of 4 : SP\_2016\_RD0524\_107\_37\_20160404\_00067.jpg



Looking north at elderberry and trees on landside slope.

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

Photo 4 of 4 : SP\_2016\_RD0524\_107\_37\_20160404\_00068.jpg



Looking southwest at trees along levee landside toe.

LM Start	<b>2.50</b>	Rating **	U	Issue No.	<b>38</b>
LM End	<b>2.50</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_38\_20160404\_00069.jpg



Looking north at elderberry on waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.50</b>	Rating **	U	Issue No.	<b>38 (cont)</b>
LM End	<b>2.50</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_38\_20160404\_00070.jpg



Looking south at elderberry on waterside slope.

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>82</b>
LM End	<b>2.56</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_82\_20160404\_00120.jpg



Looking southwest at damaged landward slope.

LM Start	<b>2.53</b>	Rating **	U	Issue No.	<b>40</b>
LM End	<b>2.57</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.918047 °	37.917498 °	
			-121.322415 °	-121.322797 °	
DWR ID	DWR_RD0524_01_s_2012_40				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_40\_20160414\_00363.jpg



Looking southwest at dense veg on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>917</b>
LM End	<b>2.58</b>	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				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					

No Photos

LM Start	<b>2.59</b>	Rating **	U	Issue No.	<b>9</b>
LM End	<b>2.63</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.917228 °	37.916858 °	
			-121.322730 °	-121.322168 °	
DWR ID	DWR_RD0524_01_s_2012_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_9\_20160414\_00364.jpg



Looking southwest at dense veg at landward toe.

LM Start	<b>2.60</b>	Rating **	U	Issue No.	<b>185</b>
LM End	<b>2.64</b>	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				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_185\_20160414\_00365.jpg



Looking northwest at untrimmed trees on landward slope and toe.

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

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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	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.64</b>	Rating **	U	Issue No.	<b>43</b>
LM End	<b>2.64</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landward shoulder, slope, and toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_43\_20160404\_00075.jpg



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

LM Start	<b>2.65</b>	Rating **	M	Issue No.	<b>918</b>
LM End	<b>2.66</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	<b>2.67</b>	Rating **	M	Issue No.	<b>44</b>
LM End	<b>2.77</b>	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				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim over hanging trees at least 12 feet above ground level.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_44\_20160404\_00076.jpg



Looking north at dense trees overhanging levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.68</b>	Rating **	U	Issue No.	<b>21</b>
LM End	<b>2.68</b>	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				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Large erosion around irrigation pipe.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_21\_20160404\_00039.jpg



Looking at erosion around irrigation pipe on waterward slope.

LM Start	<b>2.68</b>	Rating **	U	Issue No.	<b>21 (cont)</b>
LM End	<b>2.68</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0524\_107\_21\_20160404\_00040.jpg



Looking east at erosion around irrigation pipe on waterward slope.

LM Start	<b>2.70</b>	Rating **	A/W	Issue No.	<b>264</b>
LM End	<b>2.70</b>	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				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.72</b>	Rating **	U	Issue No.	<b>60</b>
LM End	<b>2.74</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_60\_20160404\_00098.jpg



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

LM Start	<b>2.74</b>	Rating **	A/W	Issue No.	<b>70</b>
LM End	<b>2.74</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree branch removed.					

No Photos

LM Start	<b>2.80</b>	Rating **	U	Issue No.	<b>48</b>
LM End	<b>2.80</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_48\_20160404\_00086.jpg



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

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.80</b>	Rating **	U	Issue No.	<b>48 (cont)</b>
LM End	<b>2.80</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_48\_20160404\_00087.jpg



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

LM Start	<b>2.80</b>	Rating **	U	Issue No.	<b>91</b>
LM End	<b>2.80</b>	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				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_91\_20160404\_00130.jpg



Looking southwest at dense vegetation on landside slope.

LM Start	<b>2.86</b>	Rating **	U	Issue No.	<b>49</b>
LM End	<b>2.86</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_49\_20160404\_00088.jpg



Looking northwest at elderberry on landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.87</b>	Rating **	U	Issue No.	<b>209</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.914257 °	37.914257 °	
			-121.324317 °	-121.324317 °	
DWR ID	DWR_RD0524_01_s_2016_209				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed walnut tree on landward slope and toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_209\_20160414\_00367.jpg



Looking northwest at untrimmed tree at landward toe.

LM Start	<b>2.90</b>	Rating **	U	Issue No.	<b>50</b>
LM End	<b>2.92</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_50\_20160404\_00089.jpg



Looking southwest at prunings on landside slope.

LM Start	<b>2.93</b>	Rating **	U	Issue No.	<b>51</b>
LM End	<b>2.93</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope and toe.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_51\_20160404\_00090.jpg



Looking south at dense trees on landward slope fall 2015

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>2.93</b>	Rating **	U	Issue No.	<b>51 (cont)</b>
LM End	<b>2.93</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope and toe.					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_51\_20160404\_00091.jpg



Looking south at dense trees on landward slope spring 2015

LM Start	<b>2.96</b>	Rating **	U	Issue No.	<b>126</b>
LM End	<b>2.96</b>	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	DWR_RD0524_01_s_2016_126				
Comment Code					
Inspector Comment					
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 : SP\_2016\_RD0524\_107\_126\_20160404\_00166.jpg



Front view of the erosion.

LM Start	<b>3.02</b>	Rating **	M	Issue No.	<b>924</b>
LM End	<b>3.02</b>	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				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.07</b>	Rating **	M	Issue No.	<b>925</b>
LM End	<b>3.27</b>	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				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee slopes.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_925\_20160404\_00240.jpg



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

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_925\_20160404\_00241.jpg



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

LM Start	<b>3.27</b>	Rating **	M	Issue No.	<b>186</b>
LM End	<b>3.27</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.30</b>	Rating **	U	Issue No.	<b>128</b>
LM End	<b>3.32</b>	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	DWR_RD0524_01_s_2016_128				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site. [2015 Site ID:RD0524U01RM43.86]					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_128\_20160404\_00167.jpg



Front view of the erosion.

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_128\_20160404\_00168.jpg



Close view of the erosion.

LM Start	<b>3.30</b>	Rating **	U	Issue No.	<b>926</b>
LM End	<b>3.38</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908158 °	37.907080 °
				-121.325418 °	-121.325366 °
DWR ID	DWR_RD0524_01_s_2012_926				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_926\_20160414\_00374.jpg



Looking northwest at untrimmed trees on landward slope and toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.30</b>	Rating **	U	Issue No.	<b>926 (cont)</b>
LM End	<b>3.38</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908158 °	37.907080 °
				-121.325418 °	-121.325366 °
DWR ID	DWR_RD0524_01_s_2012_926				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_926\_20160414\_00375.jpg



LM Start	<b>3.36</b>	Rating **	M	Issue No.	<b>53</b>
LM End	<b>3.42</b>	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				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>3.42</b>	Rating **	A/W	Issue No.	<b>56</b>
LM End	<b>3.42</b>	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				
Comment Code					
MA : Material					
Inspector Comment					
Landowner removed broken concrete pipes from landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_56\_20160404\_00094.jpg



Looking southwest at concrete pipes on landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.45</b>	Rating **	U	Issue No.	<b>54</b>
LM End	<b>3.45</b>	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				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense untrimmed trees on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_54\_20160404\_00092.jpg



Looking northwest at dense vegetation on landside slope.

LM Start	<b>3.48</b>	Rating **	M	Issue No.	<b>177</b>
LM End	<b>3.48</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on landward toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_177\_20160404\_00199.jpg



Looking at dead tree limb at landward toe fall 2015.

LM Start	<b>3.51</b>	Rating **	U	Issue No.	<b>57</b>
LM End	<b>3.61</b>	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				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_57\_20160404\_00095.jpg



Looking south at dense trees on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.64</b>	Rating **	M	Issue No.	<b>58</b>
LM End	<b>3.64</b>	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				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landowner cut steps into waterside slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_58\_20160404\_00096.jpg



Looking southeast steps cut into waterside slope.

LM Start	<b>3.65</b>	Rating **	U	Issue No.	<b>190</b>
LM End	<b>3.65</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large century plant at landward toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_190\_20160404\_00210.jpg



Looking southwest at century plant at landward toe fall 2015.

LM Start	<b>3.67</b>	Rating **	U	Issue No.	<b>192</b>
LM End	<b>3.67</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning piles at landward toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_192\_20160404\_00211.jpg



Looking east at pruning pile at landward toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.75</b>	Rating **	U	Issue No.	<b>52</b>
LM End	<b>3.75</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.902828 °	37.902828 °	
			-121.326170 °	-121.326170 °	
DWR ID	DWR_RD0524_01_s_2016_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_52\_20160414\_00376.jpg



Looking south at untrimmed tree on landward slope and toe.

LM Start	<b>3.77</b>	Rating **	U	Issue No.	<b>927</b>
LM End	<b>3.77</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed almond tree on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_927\_20160414\_00377.jpg



Looking southwest at untrimmed tree at landward toe.

LM Start	<b>3.78</b>	Rating **	U	Issue No.	<b>59</b>
LM End	<b>3.78</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_59\_20160414\_00378.jpg



Looking south at dense veg on landward slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.80</b>	Rating **	U	Issue No.	<b>928</b>
LM End	<b>3.81</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Several trees on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_928\_20160404\_00243.jpg



Looking south at dense vegetation on landward slope and toe.

LM Start	<b>3.85</b>	Rating **	A/W	Issue No.	<b>187</b>
LM End	<b>3.85</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limb on waterward shoulder.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_187\_20160404\_00208.jpg



Looking northeast at tree limb on waterward slope.

LM Start	<b>3.88</b>	Rating **	U	Issue No.	<b>94</b>
LM End	<b>3.88</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove cactus from waterward slope.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_94\_20160404\_00132.jpg



Looking southeast at cactus on waterward slope fall 2015

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>3.88</b>	Rating **	U	Issue No.	<b>94 (cont)</b>
LM End	<b>3.88</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove cactus from waterward slope.					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_94\_20160404\_00133.jpg



Looking southeast at cactus on waterside slope. Fall 2013

LM Start	<b>3.89</b>	Rating **	U	Issue No.	<b>83</b>
LM End	<b>3.89</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_83\_20160404\_00121.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	<b>4.02</b>	Rating **	U	Issue No.	<b>195</b>
LM End	<b>4.02</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile blocking view of landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_195\_20160414\_00382.jpg



Looking at pruning pile at landward toe. (Spring 2016)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>4.03</b>	Rating **	M	Issue No.	<b>61</b>
LM End	<b>4.03</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_61\_20160404\_00099.jpg



Looking east at untrimmed tree at landward toe.

LM Start	<b>4.04</b>	Rating **	A/W	Issue No.	<b>64</b>
LM End	<b>4.09</b>	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_64\_20160404\_00101.jpg



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

LM Start	<b>4.05</b>	Rating **	A/W	Issue No.	<b>62</b>
LM End	<b>4.05</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile at landward toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>4.10</b>	Rating **	U	Issue No.	<b>108</b>
LM End	<b>4.10</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope depression is greater than 1" and longer than 200'.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_108\_20160414\_00383.jpg



Looking north at caving slope on landside of levee.

LM Start	<b>4.10</b>	Rating **	U	Issue No.	<b>108 (cont)</b>
LM End	<b>4.10</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2016\_RD0524\_107\_108\_20160414\_00384.jpg



Looking south at damage slope on landside of levee.

LM Start	<b>4.10</b>	Rating **	U	Issue No.	<b>108 (cont)</b>
LM End	<b>4.10</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2016\_RD0524\_107\_108\_20160404\_00150.jpg



Looking southwest at caving slope on landside of levee. (Spring 2014)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>4.36</b>	Rating **	A/W	Issue No.	<b>65</b>
LM End	<b>4.51</b>	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>4.40</b>	Rating **	U	Issue No.	<b>112</b>
LM End	<b>4.53</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees along landward slope and toe.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_112\_20160404\_00153.jpg



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

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_112\_20160404\_00154.jpg



Looking southeast at untrimmed tree at landward toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>4.43</b>	Rating **	U	Issue No.	<b>199</b>
LM End	<b>4.43</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree from landward toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_199\_20160404\_00221.jpg



Looking west at dead tree on landward slope and toe fall 2015.

LM Start	<b>4.52</b>	Rating **	U	Issue No.	<b>102</b>
LM End	<b>4.52</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
Dead tree on waterward slope.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_102\_20160404\_00142.jpg



Looking southeast at dead tree on waterside slope fall 2015

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_102\_20160404\_00143.jpg



Looking southeast at dead tree on waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Reclamation District No. 0524 Middle Roberts Island**

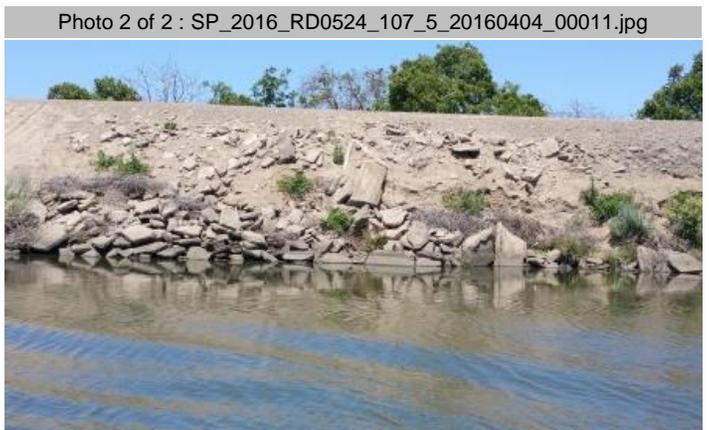
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>4.53</b>	Rating **	U	Issue No.	<b>5</b>
LM End	<b>4.54</b>	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	DWR_RD0524_01_s_2016_5				
Comment Code					
Inspector Comment					
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]					



Front view of the erosion site.

LM Start	<b>4.53</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>4.54</b>	Issue Type +	Ma	Location *	WS



Close view of the site.

LM Start	<b>4.61</b>	Rating **	U	Issue No.	<b>63</b>
LM End	<b>4.61</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					



Looking south at dense trees on landside slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>4.63</b>	Rating **	M	Issue No.	<b>113</b>
LM End	<b>4.63</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_113\_20160404\_00155.jpg



Looking north at dense trees on landside slope.

LM Start	<b>4.70</b>	Rating **	M	Issue No.	<b>67</b>
LM End	<b>4.70</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Fig tree at landside toe.					

No Photos

LM Start	<b>4.90</b>	Rating **	U	Issue No.	<b>84</b>
LM End	<b>4.93</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_84\_20160404\_00122.jpg



Looking northeast at untrimmed trees on landward slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>4.96</b>	Rating **	U	Issue No.	<b>114</b>
LM End	<b>4.98</b>	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				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_114\_20160404\_00156.jpg



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

LM Start	<b>5.00</b>	Rating **	U	Issue No.	<b>71</b>
LM End	<b>5.07</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_71\_20160404\_00104.jpg



Looking south at untrimmed trees on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.07</b>	Rating **	U	Issue No.	<b>68</b>
LM End	<b>5.07</b>	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				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_68\_20160404\_00103.jpg



Looking south at overhanging trees.

LM Start	<b>5.12</b>	Rating **	U	Issue No.	<b>188</b>
LM End	<b>5.17</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope and toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_188\_20160404\_00209.jpg



Looking southwest at untrimmed trees on landward slope and toe.

LM Start	<b>5.16</b>	Rating **	A/W	Issue No.	<b>72</b>
LM End	<b>5.16</b>	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				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.19</b>	Rating **	M	Issue No.	<b>115</b>
LM End	<b>5.19</b>	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				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Vehicle traffic created a ramp on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_115\_20160404\_00157.jpg



Looking northwest at slope damage on landward slope.

LM Start	<b>5.22</b>	Rating **	M	Issue No.	<b>116</b>
LM End	<b>5.22</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree limbs on waterside slope.					

No Photos

LM Start	<b>5.28</b>	Rating **	U	Issue No.	<b>85</b>
LM End	<b>5.34</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_85\_20160404\_00123.jpg



Looking south at untrimmed trees on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.38</b>	Rating **	U	Issue No.	<b>932</b>
LM End	<b>5.41</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_932\_20160404\_00246.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	<b>5.39</b>	Rating **	M	Issue No.	<b>178</b>
LM End	<b>5.39</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landward toe.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_178\_20160404\_00200.jpg



Looking south at downed tree on landward slope.

LM Start	<b>5.41</b>	Rating **	A/W	Issue No.	<b>931</b>
LM End	<b>5.41</b>	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				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
LMA grouted rodent holes.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_931\_20160404\_00244.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.41</b>	Rating **	A/W	Issue No.	<b>931 (cont)</b>
LM End	<b>5.41</b>	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				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
LMA grouted rodent holes.					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_931\_20160404\_00245.jpg



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

LM Start	<b>5.42</b>	Rating **	M	Issue No.	<b>118</b>
LM End	<b>5.42</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage caused by human activity.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_118\_20160404\_00158.jpg



Looking west at slope damage on landside slope.

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

Photo 2 of 3 : SP\_2016\_RD0524\_107\_118\_20160404\_00159.jpg



Looking southeast at damaged slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.42</b>	Rating **	M	Issue No.	<b>118 (cont)</b>
LM End	<b>5.42</b>	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage caused by human activity.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_118\_20160404\_00160.jpg



Looking east at slope caving on landside slope.

LM Start	<b>5.43</b>	Rating **	U	Issue No.	<b>16</b>
LM End	<b>5.43</b>	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	DWR_RD0524_01_s_2016_16				
Comment Code					
Inspector Comment					
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 : SP\_2016\_RD0524\_107\_16\_20160404\_00026.jpg



Close view of the erosion and the pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.43</b>	Rating **	U	Issue No.	<b>16 (cont)</b>
LM End	<b>5.43</b>	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	DWR_RD0524_01_s_2016_16				
Comment Code					
Inspector Comment					
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]					



Front view of the site.

LM Start	<b>5.44</b>	Rating **	U	Issue No.	<b>73</b>
LM End	<b>5.44</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					



Looking east at untrimmed trees on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.45</b>	Rating **	M	Issue No.	<b>189</b>
LM End	<b>5.45</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landward shoulder should be removed.					

No Photos

LM Start	<b>5.52</b>	Rating **	A/W	Issue No.	<b>96</b>
LM End	<b>5.52</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	<b>5.53</b>	Rating **	M	Issue No.	<b>22</b>
LM End	<b>5.53</b>	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	DWR_RD0524_01_s_2016_22				
Comment Code					
Inspector Comment					
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]					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_22\_20160404\_00041.jpg



Front view of the erosion.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.53</b>	Rating **	M	Issue No.	<b>22 (cont)</b>
LM End	<b>5.53</b>	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	DWR_RD0524_01_s_2016_22				
Comment Code					
Inspector Comment					
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]					



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

LM Start	<b>5.58</b>	Rating **	U	Issue No.	<b>214</b>
LM End	<b>5.58</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.878083 °	37.878083 °
				-121.332717 °	-121.332717 °
DWR ID	DWR_RD0524_01_s_2016_214				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Tall weeds, grasses and trees blocking view of landward toe.					



Looking west at dense veg at landward toe.

LM Start	<b>5.58</b>	Rating **	U	Issue No.	<b>214 (cont)</b>
LM End	<b>5.58</b>	Issue Type +	Ma	Location *	LS



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>215</b>
LM End	<b>5.64</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.877378 °	37.877378 °
				-121.332343 °	-121.332343 °
DWR ID	DWR_RD0524_01_s_2016_215				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Levee slope damage is due vehicle traffic and foot traffic. Vehicle traffic created a ramp on landward slope.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_215\_20160414\_00389.jpg



LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>215 (cont)</b>
LM End	<b>5.64</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2016\_RD0524\_107\_215\_20160414\_00388.jpg



Looking north at slope damage (ramp) on landward slope.

LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>215 (cont)</b>
LM End	<b>5.64</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2016\_RD0524\_107\_215\_20160414\_00390.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>69</b>
LM End	<b>5.80</b>	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District has grouted rodent holes. But rodents has re-appear.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_69\_20160414\_00391.jpg



Looking south at rodent holes on landward slope.

LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>69 (cont)</b>
LM End	<b>5.80</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0524\_107\_69\_20160414\_00392.jpg



LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>117</b>
LM End	<b>5.64</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_117\_20160414\_00393.jpg



Looking northwest at untrimmed tree on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.77</b>	Rating **	A/W	Issue No.	<b>196</b>
LM End	<b>5.77</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landward slope and toe.					

No Photos

LM Start	<b>5.79</b>	Rating **	M	Issue No.	<b>267</b>
LM End	<b>5.79</b>	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				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings at landside toe should be burned or removed.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_267\_20160414\_00394.jpg



Looking west at prunings at landward toe.

LM Start	<b>5.79</b>	Rating **	M	Issue No.	<b>197</b>
LM End	<b>5.79</b>	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				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on landward slope and levee crown.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_197\_20160404\_00216.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.79</b>	Rating **	M	Issue No.	<b>197 (cont)</b>
LM End	<b>5.79</b>	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				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on landward slope and levee crown.					

Photo 2 of 2 : SP\_2016\_RD0524\_107\_197\_20160404\_00217.jpg



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

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>198</b>
LM End	<b>5.81</b>	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				
Comment Code					
Inspector Comment					
Large erosion around irrigation pipe on waterward slope.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_198\_20160404\_00218.jpg



Looking south at erosion around irrigation pipe on waterward slope.

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

Photo 2 of 3 : SP\_2016\_RD0524\_107\_198\_20160404\_00219.jpg



Looking east at erosion around irrigation pipe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>198 (cont)</b>
LM End	<b>5.81</b>	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				
Comment Code					
Inspector Comment					
Large erosion around irrigation pipe on waterward slope.					

Photo 3 of 3 : SP\_2016\_RD0524\_107\_198\_20160404\_00220.jpg



Looking at erosion around pipe inside concrete collar.

LM Start	<b>5.86</b>	Rating **	U	Issue No.	<b>47</b>
LM End	<b>5.86</b>	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	DWR_RD0524_01_s_2016_47				
Comment Code					
Inspector Comment					
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]					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_47\_20160404\_00084.jpg



Close view of the erosion and the pipe.

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

Photo 2 of 2 : SP\_2016\_RD0524\_107\_47\_20160404\_00085.jpg



Front view of the site.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.86</b>	Rating **	M	Issue No.	<b>75</b>
LM End	<b>5.88</b>	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District has grouted rodent holes, but other rodent holes have appeared.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_75\_20160404\_00109.jpg



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

LM Start	<b>5.86</b>	Rating **	M	Issue No.	<b>75 (cont)</b>
LM End	<b>5.88</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0524\_107\_75\_20160404\_00110.jpg



Looking southwest at typical rodent holes on waterward slope.

LM Start	<b>5.86</b>	Rating **	U	Issue No.	<b>74</b>
LM End	<b>5.87</b>	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				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on landward slope around intake pipe.					

Photo 1 of 3 : SP\_2016\_RD0524\_107\_74\_20160404\_00106.jpg



Looking southeast at erosion around pipe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.86</b>	Rating **	U	Issue No.	<b>74 (cont)</b>
LM End	<b>5.87</b>	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				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on landward slope around intake pipe.					

Photo 2 of 3 : SP\_2016\_RD0524\_107\_74\_20160404\_00107.jpg



Looking west at erosion around intake pipe on landward slope.

LM Start	<b>5.86</b>	Rating **	U	Issue No.	<b>74 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2016\_RD0524\_107\_74\_20160404\_00108.jpg



Erosion at waterward toe and around irrigation pipe at LM 5.92

LM Start	<b>5.87</b>	Rating **	M	Issue No.	<b>217</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.874090 °	37.874090 °
				-121.333162 °	-121.333162 °
DWR ID	DWR_RD0524_01_s_2016_217				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.89</b>	Rating **	U	Issue No.	<b>119</b>
LM End	<b>5.89</b>	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				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Landowner is using damaged area as a ramp.					

Photo 1 of 2 : SP\_2016\_RD0524\_107\_119\_20160404\_00161.jpg



Looking west at unauthorized ramp and landside slope damage.

LM Start	<b>5.92</b>	Rating **	U	Issue No.	<b>119 (cont)</b>
LM End	<b>5.89</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0524\_107\_119\_20160404\_00162.jpg



Looking southwest at damaged slope and ramp on landside slope.

LM Start	<b>5.92</b>	Rating **	U	Issue No.	<b>200</b>
LM End	<b>5.92</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Oleander bush on landward slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_200\_20160404\_00222.jpg



Looking south at oleander on landward slope fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>5.96</b>	Rating **	U	Issue No.	<b>120</b>
LM End	<b>5.96</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_120\_20160404\_00163.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	<b>6.00</b>	Rating **	M	Issue No.	<b>933</b>
LM End	<b>6.00</b>	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				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landowner cut steps into landside slope.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_933\_20160404\_00247.jpg



Looking north at steps cut into landward slope.

LM Start	<b>6.02</b>	Rating **	M	Issue No.	<b>191</b>
LM End	<b>6.02</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cactus at landward toe.					

No Photos

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>6.15</b>	Rating **	U	Issue No.	<b>81</b>
LM End	<b>6.15</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large tree fallen across levee crown blocking access. Fallen tree branches and limbs left on landward slope.					

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

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

Photo 1 of 4 : SP\_2016\_RD0524\_107\_81\_20160414\_00396.jpg



Looking south at tree branches and limbs left on landward shoulder and slope. (Spring 2016)

Photo 2 of 4 : SP\_2016\_RD0524\_107\_81\_20160414\_00397.jpg



Looking west at tree branches and limbs left on landward shoulder and slope. (Spring 2016)

Photo 3 of 4 : SP\_2016\_RD0524\_107\_81\_20160404\_00118.jpg



Looking southwest at large tree across levee crown. (Fall 2015)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>6.15</b>	Rating **	U	Issue No.	<b>81 (cont)</b>
LM End	<b>6.15</b>	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large tree fallen across levee crown blocking access. Fallen tree branches and limbs left on landward slope.					

Photo 4 of 4 : SP\_2016\_RD0524\_107\_81\_20160404\_00119.jpg



Looking south at large tree across levee crown. (Fall 2015)

LM Start	<b>6.17</b>	Rating **	U	Issue No.	<b>98</b>
LM End	<b>6.17</b>	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_98\_20160404\_00137.jpg



Looking southeast at untrimmed trees at landward toe.

LM Start	<b>6.17</b>	Rating **	M	Issue No.	<b>97</b>
LM End	<b>6.17</b>	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Spring 2016**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/12/2016 04/13/2016	Richard Willoughby

LM Start	<b>6.20</b>	Rating **	U	Issue No.	<b>86</b>
LM End	<b>6.20</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.870388 °	37.870388 °	
			-121.329840 °	-121.329840 °	
DWR ID	DWR_RD0524_01_s_2016_86				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile left at landward toe. After farmer cleared field.					

Photo 1 of 1 : SP\_2016\_RD0524\_107\_86\_20160414\_00398.jpg



Looking west at prunings at landward toe and berm.

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