

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1601 Reclamation District No. 1601 Twitchell	Overall LMA Rating	Total LMA Miles						
	M	2.43						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Crown Surface / Depressions / Rutting	0.42		0.42	17.31%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06	0.01		
<i>LMA Totals:</i>	0.42	0.00	0.42	17.31%	0.06	0.01	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2015 Levee Inspection Results**

Reclamation District No. 1601 Twitchell

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 1601 Twitchell

Waterway		Bank	Unit Miles	
Unit No. 01 Threemile Slough		Left	2.43	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/08/2015 - 04/08/2015		11/03/2015 - 11/03/2015	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD1601_01_s_2013_6				
Action/Comments					
Inspector Comments: LMA has a copy of the O & M Manuals on file at the office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD1601_01_s_2013_7				
Action/Comments					
Inspector Comments: LMA has adequate floodfight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD1601_01_s_2013_8				
Action/Comments					
Inspector Comments: LMA staff involved in the yearly Twitchell Island exercise.					

No Photos

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	0.25	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.122235 °	°
				-121.682553 °	°
DWR ID	DWR_RD1601_01_s_2015_13				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Rutting and holes on levee crown.					

No Photos

LM Start	0.11	Rating **	M	Issue No.	16
LM End	0.11	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120716 °	38.120716 °
				-121.682796 °	-121.682796 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:22043 DS_ID:20950 EP_NO: 11227 FS_HLM: 0.11 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. FIELD_STRUCT_DESC: 14-inch pipe (not 12-inch pipe as original description noted) through the levee, 4.0 feet below the crown. Siphon primer on waterward shoulder. 36-inch steel (not concrete as original description noted) pipe with shut-off valve inside at landward toe ditch. (ABO No. 11227-1975) FS Date: 05/14/2013					

Photo 1 of 3 : UCIP_FA_2015_1935.jpg



View of waterward side. 12-inch pipe to the right and 14-inch pipe to the left.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.11	Rating **	M	Issue No.	16 (cont)
LM End	0.11	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120716 °	38.120716 °
				-121.682796 °	-121.682796 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:22043 DS_ID:20950 EP_NO: 11227 FS_HLM: 0.11 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. FIELD_STRUCT_DESC: 14-inch pipe (not 12-inch pipe as original description noted) through the levee, 4.0 feet below the crown. Siphon primer on waterward shoulder. 36-inch steel (not concrete as original description noted) pipe with shut-off valve inside at landward toe ditch. (ABO No. 11227-1975) FS Date: 05/14/2013					

Photo 2 of 3 : UCIP_FA_2015_1936.jpg



View of landward side with canal located at toe.

Photo 3 of 3 : UCIP_FA_2015_1937.jpg



View of pipes located on landward side-dense vegetation along slope.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.11	Rating **	M	Issue No.	17
LM End	0.11	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120708 °	38.120708 °
				-121.682798 °	-121.682798 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42024 DS_ID:20953 EP_NO: N/A FS_HLM: 0.109 Repair Type: Non-Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_3665.jpg



View of waterward side. 12-inch pipe on the right (u/s) and 14-inch pipe on the left (d/s).

LM Start	0.11	Rating **	M	Issue No.	17 (cont)
LM End	0.11	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_FA_2015_3666.jpg



View of pipes from landward shoulder. Levee is a gravel road.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.11	Rating **	M	Issue No.	17 (cont)
LM End	0.11	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120708 °	38.120708 °
DWR ID				-121.682798 °	-121.682798 °
Action/Comments					
Inspector Comments: FS_ID:42024 DS_ID:20953 EP_NO: N/A FS_HLM: 0.109 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3667.jpg



View of pipes on landward side-dense vegetation along slope.

LM Start	0.35	Rating **	M	Issue No.	1
LM End	0.45	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.117236 °	38.115921 °
DWR ID	DWR_RD1601_01_f_2015_1			-121.682869 °	-121.682293 °
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Rutting on levee crown.					

No Photos

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	18
LM End	0.79	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111078 °	38.111078 °
				-121.682011 °	-121.682011 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:39946
 DS_ID:24069
 EP_NO: N/A
 FS_HLM: 0.803
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
 FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
 FS Date: 03/19/2009

LM Start	0.79	Rating **	M	Issue No.	18 (cont)
LM End	0.79	Issue Type +	En	Location *	CR

Photo 1 of 3 : UCIP_FA_2015_6669.jpg



View of landward side--dense vegetation along slope.

Photo 2 of 3 : UCIP_FA_2015_6670.jpg



PVC pipe inside standpipe located on landward side.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	18 (cont)
LM End	0.79	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111078 °	38.111078 °
				-121.682011 °	-121.682011 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:39946 DS_ID:24069 EP_NO: N/A FS_HLM: 0.803 Repair Type: Non-Urgent Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_6671.jpg



View of landward side--standpipe located on slope.

LM Start	0.79	Rating **	U	Issue No.	19
LM End	0.79	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111078 °	38.111078 °
				-121.682011 °	-121.682011 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:33656 DS_ID:20958 EP_NO: N/A FS_HLM: 0.803 Repair Type: Urgent Crossing Status: Not Found UCIP Comments: no markers or signs available--will need to coordinate with owner to determine if crossing is still being used or abandoned. FIELD_STRUCT_DESC: 12-inch steel gas line through the levee. Facility on landward side. FS Date: 05/14/2013					

No Photos

LM Start	0.99	Rating **	C	Issue No.	14
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.108265 °	38.108115 °
				-121.682747 °	-121.682804 °
DWR ID	DWR_RD1601_01_s_2015_14				
Action/Comments					
Repair slope instability. Inspector Comments: Slight caving was observed on waterward shoulder and slope.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	2
LM End	1.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.108088 °	38.107128 °	
			-121.682784 °	-121.683190 °	
DWR ID	DWR_RD1601_01_f_2015_2				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Rutting on levee crown.					

No Photos

LM Start	1.27	Rating **	A	Issue No.	15
LM End	1.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.104340 °	38.104114 °	
			-121.683890 °	-121.683933 °	
DWR ID	DWR_RD1601_01_s_2015_15				
Action/Comments					
Repair slope instability. Inspector Comments: Slight caving observed on waterward shoulder and slope.					

Photo 1 of 3 : FA_2015_RD1601_237_15_20151106_00008.jpg



Looking northwest at repaired depression/caving on waterward shoulder and slope.

LM Start	1.27	Rating **	A	Issue No.	15 (cont)
LM End	1.28	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2015_RD1601_237_15_20150914_00004.jpg



Looking north at depression/caving on waterward shoulder and slope.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	1.27	Rating **	A	Issue No.	15 (cont)
LM End	1.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.104340 °	38.104114 °
				-121.683890 °	-121.683933 °
DWR ID	DWR_RD1601_01_s_2015_15				
Action/Comments					
Repair slope instability. Inspector Comments: Slight caving observed on waterward shoulder and slope.					

Photo 3 of 3 : FA_2015_RD1601_237_15_20150914_00003.jpg



Looking south at depression/caving on waterward shoulder and slope.

LM Start	1.40	Rating **	M	Issue No.	20
LM End	1.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.102422 °	38.102422 °
				-121.684289 °	-121.684289 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:39947 DS_ID:24068 EP_NO: N/A FS_HLM: 1.43 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side. FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well. FS Date: 03/19/2009					

Photo 1 of 3 : UCIP_FA_2015_6672.jpg



View of waterward side -- rip rap located along waterward toe.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	1.40	Rating **	M	Issue No.	20 (cont)
LM End	1.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.102422 °	38.102422 °
				-121.684289 °	-121.684289 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:39947
 DS_ID:24068
 EP_NO: N/A
 FS_HLM: 1.43
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
 FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landward shoulder. Rip rap located on waterward slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
 FS Date: 03/19/2009

Photo 2 of 3 : UCIP_FA_2015_6673.jpg



View of landward side.

LM Start	1.40	Rating **	M	Issue No.	20 (cont)
LM End	1.40	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_FA_2015_6674.jpg



PVC inside standpipe located on landward side.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	21
LM End	1.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.097105 °	38.097105 °
				-121.684815 °	-121.684815 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:39948 DS_ID:24071 EP_NO: N/A FS_HLM: 1.8 Repair Type: Non-Urgent Crossing Status: Indicator Found					

Photo 1 of 3 : UCIP_FA_2015_6675.jpg



View of waterward side.

LM Start	1.77	Rating **	M	Issue No.	21 (cont)
LM End	1.77	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_6676.jpg



View of landward side.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	21 (cont)
LM End	1.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.097105 °	38.097105 °
				-121.684815 °	-121.684815 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:39948 DS_ID:24071 EP_NO: N/A FS_HLM: 1.8 Repair Type: Non-Urgent Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_6677.jpg



Standpipe located on landward side.

LM Start	2.04	Rating **	M	Issue No.	22
LM End	2.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.093107 °	38.093107 °
				-121.684525 °	-121.684525 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19545 DS_ID:20951 EP_NO: 2909A FS_HLM: 2.083 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. Dense vegetation on landward slope limits the inspector's visibility to identify signs of leaks along levee slope. FIELD_STRUCT_DESC: 8-inch siphon pipe through levee, 2.4 feet below crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landward shoulder. Hand primer pump on landward slope. (Permit No. 2909A-1960) FS Date: 05/14/2013					

Photo 1 of 3 : UCIP_FA_2015_1699.jpg



View of crossing on waterward slope. Rip rap present at waterward toe.

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

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	11/03/2015 11/03/2015	Richard Willoughby

LM Start	2.04	Rating **	M	Issue No.	22 (cont)
LM End	2.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.093107 °	38.093107 °
				-121.684525 °	-121.684525 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19545 DS_ID:20951 EP_NO: 2909A FS_HLM: 2.083 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. Dense vegetation on landward slope limits the inspector's visibility to identify signs of leaks along levee slope. FIELD_STRUCT_DESC: 8-inch siphon pipe through levee, 2.4 feet below crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landward shoulder. Hand primer pump on landward slope. (Permit No. 2909A-1960) FS Date: 05/14/2013					

Photo 2 of 3 : UCIP_FA_2015_1700.jpg



View of levee crown looking downstream at crossing.

Photo 3 of 3 : UCIP_FA_2015_1701.jpg



View of levee crown looking upstream at crossing.

LM Start	2.04	Rating **	M	Issue No.	22 (cont)
LM End	2.04	Issue Type +	En	Location *	WS

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