

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2015 Levee Inspection Results****Brannan Andrus Levee Maintenance District**

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough			Right	6.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/11/2015 - 03/11/2015			
DWR Inspector	Richard Willoughby			
Accompanied By	Gilbert Labrie DCC Engineering Co, Inc			

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start		Rating **	A	Issue No.	27		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_NA0002_01_s _ 2012_27						
Action/Comments							
Inspector Comments: LMA is prepared to respond to a flood emergency.							

No Photos

LM Start		Rating **	A	Issue No.	32	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Operations & Maintenance Manuals				°	°
					°	°
DWR ID	DWR_NA0002_01_s _ 2013_32					
Action/Comments						
Inspector Comments: The LMA maintains a copy of the O&M manual on file at district office.						

No Photos

LM Start		Rating **	A	Issue No.	33	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	°
					°	°
DWR ID	DWR_NA0002_01_s _ 2013_33					
Action/Comments						
Inspector Comments: LMA maintains an adequate amount of flood fight supplies and equipment for flood response.						

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	57
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186401 °	38.182149 °
				-121.562749 °	-121.575786 °
DWR ID	DWR_NA0002_01_s _ 2015_57				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: LMA should apply maintenance program to control vegetation on levee slope.					

No Photos

LM Start	0.02	Rating **	M	Issue No.	58
LM End	0.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186327 °	38.182149 °
				-121.562954 °	-121.575786 °
DWR ID	DWR_NA0002_01_s _ 2015_58				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: LMA should apply maintenance program to control vegetation on levee slope.					

No Photos

LM Start	0.39	Rating **	M	Issue No.	59
LM End	0.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.183554 °	38.183554 °
				-121.568850 °	-121.568850 °
DWR ID	DWR_NA0002_01_s _ 2015_59				
Action/Comments					
Tree or limb					
Inspector Comments: Downed tree on waterward slope.					

Photo 1 of 1 : SP_2015_NA0002_62_59_20150313_00053.jpg



Looking east at downed tree on waterward toe.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	0.61	Rating **	M	Issue No.	22
LM End	0.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.182213 °	38.182213 °
				-121.572357 °	-121.572357 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13560					
DS_ID:21752					
EP_NO: 2015					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: This pipe appears abandoned and should be removed.					
FIELD_STRUCT_DESC: 2-inch galvanized pipe through levee 2.0 feet below crown. Gas well drain (Permit No. 2015, 1959).					
FS Date: 05/16/2013					

No Photos

LM Start	0.75	Rating **	M	Issue No.	35
LM End	0.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.182212 °	38.182212 °
				-121.574987 °	-121.574987 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15984 DS_ID:21753 EP_NO: 11232 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to locate any appurtances other than distro box. Need to verify proper abandonment. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.2 feet below crown. Siphon breaker on landward slope. Concrete distribution box located landward of the toe (ABO No. 11232, 1975). 2" primer valve. Originally included in the 1954 O&M manual. FS Date: 05/16/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	1.22	Rating **	M	Issue No.	37
LM End	1.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.177669 °	38.177669 °
				-121.580222 °	-121.580222 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13558 DS_ID:21754 EP_NO: 11234 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 8-inch steel pipe through levee 4.3 feet below crown. Pump in pump house on waterward berm. 60-inch diameter concrete standpipe on LS toe (ABO No. 11234, 1975). Originally included in the 1954 O&M manual. FS Date: 05/16/2013					

No Photos

LM Start	1.54	Rating **	M	Issue No.	38
LM End	1.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.173254 °	38.173254 °
				-121.580718 °	-121.580718 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13554 DS_ID:21755 EP_NO: 11252 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe heavily rusted at distribution box. Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 3: 8-inch steel pipe through levee 4.6 feet below crown. Pump and valve on waterward slope. Siphon breaker in 24-inch CMP riser on LS shoulder. 7'X10'-concrete distribution box at LS toe (ABO No. 11252, 1976). Originally included in the 1954 O&M manual. FS Date: 05/16/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	1.56	Rating **	M	Issue No.	25
LM End	1.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172887 °	38.170425 °
				-121.580590 °	-121.581080 °
DWR ID	DWR_NA0002_01_s _ 2012_25				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Tree blocking levee landward toe.					

LM Start	1.56	Rating **	M	Issue No.	25 (cont)
LM End	1.73	Issue Type +	Ma	Location *	LS

LM Start	1.56	Rating **	M	Issue No.	25 (cont)
LM End	1.73	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : SP_2015_NA0002_62_25_20150313_00055.jpg



Looking northwest at untrimmed tree at landward toe. (Spring 2015)

Photo 2 of 3 : SP_2015_NA0002_62_25_20150313_00054.jpg



Looking west at untrimmed tree at landward toe. (Spring 2015)

Photo 3 of 3 : SP_2015_NA0002_62_25_20150309_00020.jpg



Looking southwest at an untrimmed tree on landward slope and toe.
(Spring 2014)

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.18	Rating **	M	Issue No.	39
LM End	2.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164491 °	38.164491 °
				-121.583943 °	-121.583943 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13549					
DS_ID:21758					
EP_NO: 11252					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe rusted through at inlet to box. Good candidate					

No Photos

LM Start	2.20	Rating **	M	Issue No.	26
LM End	2.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.164138 °	38.163797 °
				-121.584078 °	-121.584225 °
DWR ID	DWR_NA0002_01_s _ 2013_26				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Control wild growth at landside slope and toe.					

Photo 1 of 1 : SP_2015_NA0002_62_26_20150313_00056.jpg



Looking southwest at dense vegetation at landward toe.

LM Start	2.25	Rating **	A/W	Issue No.	6
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.163460 °	38.163460 °
				-121.584406 °	-121.584406 °
DWR ID	DWR_NA0002_01_s _ 2012_6				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.29	Rating **	U	Issue No.	36
LM End	2.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162918 °	38.162322 °
				-121.584721 °	-121.585081 °
DWR ID	DWR_NA0002_01_s _ 2012_36				
Action/Comments					
Landscaping					

Photo 1 of 4 : SP_2015_NA0002_62_36_20150309_00023.jpg



Looking south at dense landscaping on the waterside and landside of levee.

LM Start	2.29	Rating **	U	Issue No.	36 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 2 of 4 : SP_2015_NA0002_62_36_20150309_00024.jpg



Looking south at dense oleander on waterside shoulder, spring 2012.

LM Start	2.29	Rating **	U	Issue No.	36 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 3 of 4 : SP_2015_NA0002_62_36_20150309_00025.jpg



Looking north at dense vegetation on waterside slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.29	Rating **	U	Issue No.	36 (cont)	
LM End	2.34	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.162918 °	38.162322 °	
				-121.584721 °	-121.585081 °	
DWR ID	DWR_NA0002_01_s_2012_36					
Action/Comments						
Landscaping						

Photo 4 of 4 : SP_2015_NA0002_62_36_20150309_00026.jpg



Looking west at ground cover on landside slope.

LM Start	2.30	Rating **	M	Issue No.	3
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.162773 °	38.162773 °
				-121.584767 °	-121.584767 °
DWR ID	DWR_NA0002_01_s_2012_3				
Action/Comments					
Firewood					

Photo 1 of 3 : SP_2015_NA0002_62_3_20150309_00002.jpg



Looking east at firewood on waterside shoulder.

LM Start	2.30	Rating **	M	Issue No.	3 (cont)
LM End	2.30	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_NA0002_62_3_20150309_00003.jpg



Looking southeast at firewood on waterside shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.30	Rating **	M	Issue No.	3 (cont)	
LM End	2.30	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.162773 °		38.162773 °
				-121.584767 °		-121.584767 °
DWR ID	DWR_NA0002_01_s_2012_3					
Action/Comments						
Firewood						

Photo 3 of 3 : SP_2015_NA0002_62_3_20150309_00004.jpg



Looking south at firewood on waterside shoulder.

LM Start	2.33	Rating **	M	Issue No.	50
LM End	2.33	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.162343 °	38.162343 °
				-121.585020 °	-121.585020 °
DWR ID	DWR_NA0002_01_f_2014_50				
Action/Comments					
Landscape Irrigation					
Inspector Comments: Landowner installed sprinklers along waterward slope without permit.					

Photo 1 of 1 : SP_2015_NA0002_62_50_20150309_00029.jpg



Looking east at sprinklers on waterward slope.

LM Start	2.34	Rating **	M	Issue No.	40
LM End	2.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162332 °	38.162332 °
				-121.585032 °	-121.585032 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16123					
DS_ID:21819					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 2-inch steel pipe through levee 3.0 feet below crown. Originally included in the 1954 O&M manual.					
FS Date: 05/16/2013					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.36	Rating **	M	Issue No.	7
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.162004 °	38.162004 °
				-121.585229 °	-121.585229 °
DWR ID	DWR_NA0002_01_s _ 2012_7				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.40	Rating **	M	Issue No.	8
LM End	2.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.161573 °	38.161573 °
				-121.585720 °	-121.585720 °
DWR ID	DWR_NA0002_01_s _ 2013_8				
Action/Comments					
Garbage					

Photo 1 of 1 : SP_2015_NA0002_62_8_20150309_00007.jpg



Looking northeast at garbage at landward toe.

LM Start	2.43	Rating **	M	Issue No.	56		
LM End	2.58	Issue Type +	En	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Encroachments				o		o
					o		o
DWR ID	DWR_NA0002_01_s _ 2014_56						
Action/Comments							
Ditch							
Inspector Comments: Ditch has been in place for several years. Ditch should be removed from within fifteen feet of landward toe.							

Photo 1 of 3 : SP_2015_NA0002_62_56_20150309_00036.jpg



Looking south at ditch within fifteen feet of landward toe.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.43	Rating **	M	Issue No.	56 (cont)		
LM End	2.58	Issue Type +	En	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start	End		
Item	Encroachments				°		°
					°		°
DWR ID	DWR_NA0002_01_s _ 2014_56						
Action/Comments							
Ditch							
Inspector Comments: Ditch has been in place for several years. Ditch should be removed from within fifteen feet of landward toe.							

Photo 2 of 3 : SP_2015_NA0002_62_56_20150309_00037.jpg



Looking north at south end of ditch within fifteen feet of landward toe.

LM Start	2.43	Rating **	M	Issue No.	56 (cont)
LM End	2.58	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP_2015_NA0002_62_56_20150309_00038.jpg



Looking north at ditch within fifteen feet of landward toe.

LM Start	2.45	Rating **	M	Issue No.	28
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.160805 °	38.160281 °
				-121.585782 °	-121.586007 °
DWR ID	DWR_NA0002_01_s _ 2013_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Wild rose on landside slope and toe.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.50	Rating **	M	Issue No.	41
LM End	2.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.160147 °	38.160147 °
				-121.586088 °	-121.586088 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13545 DS_ID:21762 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. standpipe on LS is covered in brush. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee 3.4 feet below the crown. 6" pump on waterward side. 36-inch concrete standpipe on LS toe. Originally included in the 1954 O&M manual. FS Date: 05/16/2013					

No Photos

LM Start	2.54	Rating **	M	Issue No.	42
LM End	2.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.159569 °	38.159569 °
				-121.586340 °	-121.586340 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13525 DS_ID:21764 EP_NO: 17250 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Needs better location markers. FIELD_STRUCT_DESC: 24-inch steel natural-gas pipeline through the levee 117-feet below the crown (Permit No. 17250, 2001). Possible sign on LS toe. FS Date: 05/16/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.60	Rating **	U	Issue No.	43
LM End	2.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.158683 °	38.158683 °
				-121.586784 °	-121.586784 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42846 DS_ID:21765 EP_NO: 11238 Repair Type: Urgent Crossing Status: Found UCIP Comments: Erosion along pipe at WS toe goes into levee prism. Animal activity appears to be the cause of some pretty heavy erosion damage. Some settlement along the pipe alignment on crown may indicate other problems with this pipe. FIELD_STRUCT_DESC: 1 of 5: 12-inch steel pipe through levee 4.0 feet below crown. Siphon breaker on landward shoulder. 7X9-foot concrete distribution box on LS toe (ABO No. 11238, 1975). Originally included in the 1954 O&M manual. (pipe replaced under Permit No. 18549 7/11/2009). FS Date: 05/16/2013					

No Photos

LM Start	2.61	Rating **	C	Issue No.	44
LM End	2.61	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.158673 °	38.158673 °
				-121.586833 °	-121.586833 °
DWR ID	DWR_NA0002_01_f_2014_44				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Minor depressions across crown roadway. Pipe located near the site.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.00	Rating **	U	Issue No.	55
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				o
					o
DWR ID	DWR_NA0002_01_s _ 2014_55				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dense vegetation on landward toe.					

LM Start	3.00	Rating **	U	Issue No.	55 (cont)
LM End	3.00	Issue Type +	Ma	Location *	LS

LM Start	3.00	Rating **	U	Issue No.	55 (cont)
LM End	3.00	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : SP_2015_NA0002_62_55_20150313_00058.jpg



Looking southwest at dense vegetation at landward toe. (Spring 2015)

Photo 2 of 3 : SP_2015_NA0002_62_55_20150313_00059.jpg



Looking north at dense vegetation withing fifteen feet of landward toe.

Photo 3 of 3 : SP_2015_NA0002_62_55_20150309_00035.jpg



Looking north at dense vegetation within fifteen feet of landward toe.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.01	Rating **	M	Issue No.	45
LM End	3.01	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.156379 °	38.156379 °
				-121.592527 °	-121.592527 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41561					
DS_ID:21766					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Appears abandoned					

No Photos

LM Start	3.32	Rating **	C	Issue No.	29
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.152052 °	38.151683 °
				-121.591500 °	-121.591662 °
DWR ID	DWR_NA0002_01_s_2013_29				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Wild roses on landside slope.					

No Photos

LM Start	3.37	Rating **	M	Issue No.	5
LM End	3.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.151492 °	38.151492 °
				-121.591942 °	-121.591942 °
DWR ID	DWR_NA0002_01_f_2013_5				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove cactus from waterward slope.					

Photo 1 of 1 : SP_2015_NA0002_62_5_20150309_00006.jpg



Looking south at cacti on waterward slope near Oxbow Habor.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.46	Rating **	A/W	Issue No.	30
LM End	3.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.151572 °	38.149813 °
				-121.593488 °	-121.598913 °
DWR ID	DWR_NA0002_01_s _ 2013_30				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Willows on waterside slope.					

No Photos

LM Start	3.62	Rating **	A/W	Issue No.	9
LM End	3.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.151744 °	38.151744 °
				-121.596425 °	-121.596425 °
DWR ID	DWR_NA0002_01_s _ 2012_9				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.93	Rating **	A/W	Issue No.	10
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148379 °	38.148379 °
				-121.599970 °	-121.599970 °
DWR ID	DWR_NA0002_01_s _ 2012_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 3 : SP_2015_NA0002_62_10_20150309_00008.jpg



Looking west at dense vegetation on waterside slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.93	Rating **	A/W	Issue No.	10 (cont)
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148379 °	38.148379 °
				-121.599970 °	-121.599970 °
DWR ID	DWR_NA0002_01_s _ 2012_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

LM Start	3.93	Rating **	A/W	Issue No.	10 (cont)
LM End	3.93	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_NA0002_62_10_20150309_00009.jpg



Looking south at dead willows on waterward slope. (Spring 2013)

Photo 3 of 3 : SP_2015_NA0002_62_10_20150309_00010.jpg



Looking west at dense vegetation on waterside slope spring 2012.

LM Start	3.93	Rating **	U	Issue No.	11
LM End	3.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148318 °	38.147898 °
				-121.599947 °	-121.600347 °
DWR ID	DWR_NA0002_01_s _ 2012_11				
Action/Comments					
Landscaping					

Photo 1 of 3 : SP_2015_NA0002_62_11_20150309_00011.jpg



Looking northeast at landscaping on landside slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.93	Rating **	U	Issue No.	11 (cont)	
LM End	3.97	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.148318 °		38.147898 °
				-121.599947 °		-121.600347 °
DWR ID	DWR_NA0002_01_s_2012_11					
Action/Comments						
Landscaping						

Photo 2 of 3 : SP_2015_NA0002_62_11_20150309_00012.jpg



Looking south at bushes on landside shoulder and slope.

LM Start	3.93	Rating **	U	Issue No.	11 (cont)
LM End	3.97	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP_2015_NA0002_62_11_20150309_00013.jpg



Looking west at dense landscaping on landside slope.

LM Start	3.99	Rating **	M	Issue No.	46
LM End	3.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.147653 °	38.147653 °
				-121.600491 °	-121.600491 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13487					
DS_ID:21825					
EP_NO: 11248					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Leakage of pipe at WS toe creating erosion.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.99	Rating **	U	Issue No.	47
LM End	3.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.147657 °	38.147657 °
				-121.600521 °	-121.600521 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:42847 DS_ID:21773 EP_NO: 5534 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pot holes over pipe may indicate internal failure. Good candidate for video inspection. FIELD_STRUCT_DESC: 22-inch steel discharge pipe through levee 3.0 feet below crown. Siphon breaker on WS shoulder. Pump in channel on landward side (Permit No. 5534, 1966). Replaced a 24-inch pipe at same location. FS Date: 05/16/2013					

LM Start	4.04	Rating **	U	Issue No.	48
LM End	4.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146985 °	38.146985 °
				-121.601019 °	-121.601019 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:13483 DS_ID:21775 EP_NO: 11238 Repair Type: Urgent Crossing Status: Found UCIP Comments: Missing cover on concrete sump is an immediate hazard and should be repaired. FIELD_STRUCT_DESC: 5 of 5: 8-inch steel pipe through levee 3.7 feet below crown. 5X5-foot concrete spillbox on LS slope (ABO No. 11238, 1975). Originally included in the 1954 O&M manual. FS Date: 05/08/2013					

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	4.18	Rating **	A/W	Issue No.	12
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.145094 °	38.144817 °
				-121.601585 °	-121.601477 °
DWR ID	DWR_NA0002_01_s_2012_12				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	4.23	Rating **	M	Issue No.	20
LM End	4.29	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.144471 °	38.143652 °
				-121.601381 °	-121.600877 °
DWR ID	DWR_NA0002_01_f_2013_20				
Action/Comments					
Landscape Irrigation					
Inspector Comments: Sprinkler system on waterside of levee.					

Photo 1 of 1 : SP_2015_NA0002_62_20_20150309_00015.jpg



Looking south at a sprinkler system on waterward slope.

LM Start	4.25	Rating **	A/W	Issue No.	13
LM End	4.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.144134 °	38.143747 °
				-121.601177 °	-121.600924 °
DWR ID	DWR_NA0002_01_s_2012_13				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	4.36	Rating **	A/W	Issue No.	21
LM End	4.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.142838 °	38.142838 °
				-121.600163 °	-121.600163 °
DWR ID	DWR_NA0002_01_s _ 2012_21				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	4.63	Rating **	M	Issue No.	49
LM End	4.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.139401 °	38.139401 °
				-121.597678 °	-121.597678 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13442 DS_ID:21781 EP_NO: 11237 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. Good candidate for video inspection. FIELD_STRUCT_DESC: 3 of 3: 6-inch steel pipe through levee 3.6 feet below crown. 42-inch concrete standpipe on LS toe.. (ABO No. 11237, 1975). Originally included in the 1954 O&M manual. FS Date: 05/15/2013					

No Photos

LM Start	4.78	Rating **	M	Issue No.	24
LM End	4.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.137478 °	38.137472 °
				-121.596512 °	-121.596512 °
DWR ID	DWR_NA0002_01_s _ 2012_24				
Action/Comments					
Garbage Inspector Comments: Landowner stockpiling wooden beams on lanside shoulder.					

Photo 1 of 1 : SP_2015_NA0002_62_24_20150309_00019.jpg



Looking northwest at wooden boards on landside shoulder.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	4.79	Rating **	M	Issue No.	62
LM End	4.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.137306 °	38.137306 °
				-121.596371 °	-121.596371 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41562 DS_ID:21782 EP_NO: 11233 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify type of abandonment. FIELD_STRUCT_DESC: 2.5-inch pipe through levee 3.2 feet below crown. Found pipe in water on WS toe. (ABO No. 11233, 1975). FS Date: 05/15/2013					

No Photos

LM Start	4.97	Rating **	M	Issue No.	1
LM End	4.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.135235 °	38.135235 °
				-121.594275 °	-121.594275 °
DWR ID	DWR_NA0002_01_s_2015_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Wild rose on landward slope and toe.					

Photo 1 of 1 : SP_2015_NA0002_62_1_20150313_00060.jpg



Looking west at dense vegetation at landward toe. (Spring 2015)

LM Start	4.98	Rating **	A/W	Issue No.	14
LM End	4.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.135158 °	38.135158 °
				-121.594198 °	-121.594198 °
DWR ID	DWR_NA0002_01_s_2012_14				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

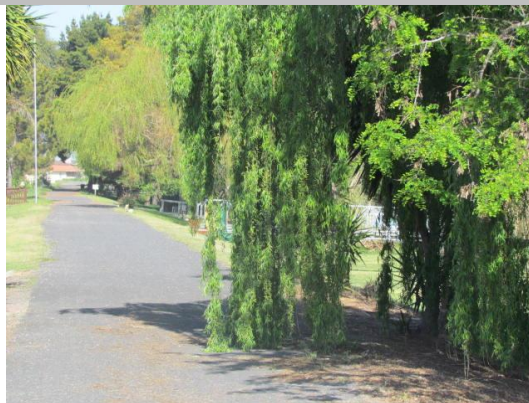
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.11	Rating **	A/W	Issue No.	15
LM End	5.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.133759 °	38.133759 °
				-121.592598 °	-121.592598 °
DWR ID	DWR_NA0002_01_s _ 2012_15				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	5.17	Rating **	A/W	Issue No.	31
LM End	5.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.133145 °	38.133145 °
				-121.591895 °	-121.591895 °
DWR ID	DWR_NA0002_01_s _ 2013_31				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

Photo 1 of 1 : SP_2015_NA0002_62_31_20150309_00022.jpg



Looking north at overhanging tree limbs on landward shoulder.

LM Start	5.25	Rating **	M	Issue No.	61
LM End	5.25	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132261 °	38.132261 °
				-121.590914 °	-121.590914 °
DWR ID	DWR_NA0002_01_s _ 2015_61				
Action/Comments					
Landscaping					
Inspector Comments: Overgrowth landscaping on waterward slope.					

Photo 1 of 2 : SP_2015_NA0002_62_61_20150313_00061.jpg

Looking northeast at overgrowth landscaping on waterward slope.
(Spring 2015)

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.25	Rating **	M	Issue No.	61 (cont)
LM End	5.25	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132261 °	38.132261 °
				-121.590914 °	-121.590914 °
DWR ID	DWR_NA0002_01_s_2015_61				
Action/Comments					
Landscaping					
Inspector Comments: Overgrowth landscaping on waterward slope.					

Photo 2 of 2 : SP_2015_NA0002_62_61_20150313_00062.jpg



Looking southeast at overgrowth landscaping on waterward slope.
(Spring 2015)

LM Start	5.25	Rating **	M	Issue No.	16
LM End	5.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132238 °	38.132238 °
				-121.590897 °	-121.590897 °
DWR ID	DWR_NA0002_01_s_2012_16				
Action/Comments					
Landscaping					

No Photos

LM Start	5.26	Rating **	M	Issue No.	60
LM End	5.26	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.132199 °	38.132199 °
				-121.590855 °	-121.590855 °
DWR ID	DWR_NA0002_01_s_2015_60				
Action/Comments					
Garbage					
Inspector Comments: An abandoned childs swing set at the waterward toe.					

Photo 1 of 1 : SP_2015_NA0002_62_60_20150313_00063.jpg



Looking northeast at abandoned childs swing set 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 - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.33	Rating **	M	Issue No.	2
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.131327 °	38.131327 °
				-121.589980 °	-121.589980 °
DWR ID	DWR_NA0002_01_s _ 2012_2				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	5.36	Rating **	M	Issue No.	63
LM End	5.36	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.131048 °	38.131048 °
				-121.589655 °	-121.589655 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13090 DS_ID:21816 EP_NO: 11245 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. Pipe at slide gate in riser on LS toe is rusted through. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel pipe through levee 3.8 feet below crown (ABO 11245, 1975). 2" primer valve and 48-inch concrete standpipe on LS. Originally included in the 1954 O&M manual. FS Date: 05/08/2013					

No Photos

LM Start	5.42	Rating **	C	Issue No.	4
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.130355 °	38.130355 °
				-121.588942 °	-121.588942 °
DWR ID	DWR_NA0002_01_s _ 2012_4				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limb on landside slope.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.42	Rating **	M	Issue No.	54
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees				°
					°
DWR ID	DWR_NA0002_01_s_2014_54				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	5.47	Rating **	M	Issue No.	23
LM End	5.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129810 °	38.129415 °
				-121.588218 °	-121.586807 °
DWR ID	DWR_NA0002_01_s_2012_23				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove vegetation at landside toe.					

Photo 1 of 3 : SP_2015_NA0002_62_23_20150309_00016.jpg



Looking south at trees, berry vines, and wild rose on landside toe.

LM Start	5.47	Rating **	M	Issue No.	23 (cont)
LM End	5.56	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2015_NA0002_62_23_20150309_00017.jpg



Looking east at dense vegetation on landward toe.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.47	Rating **	M	Issue No.	23 (cont)	
LM End	5.56	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.129810 °	38.129415 °	
				-121.588218 °	-121.586807 °	
DWR ID	DWR_NA0002_01_s _ 2012_23					
Action/Comments						
Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comments: Remove vegetation at landside toe.						

Photo 3 of 3 : SP_2015_NA0002_62_23_20150309_00018.jpg



Looking south at dense berry vines and trees on the landward slope and toe.

LM Start	5.64	Rating **	M	Issue No.	18
LM End	5.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129240 °	38.129252 °
				-121.585328 °	-121.584723 °
DWR ID	DWR_NA0002_01_s _ 2012_18				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses or berry vines on waterside slope.					

Photo 1 of 1 : SP_2015_NA0002_62_18_20150309_00014.jpg



Looking south at dense vegetation on waterside slope.

LM Start	5.70	Rating **	A/W	Issue No.	19
LM End	5.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129307 °	38.129307 °
				-121.584253 °	-121.584253 °
DWR ID	DWR_NA0002_01_s _ 2012_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Willows on waterside slope					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.72	Rating **	M	Issue No.	53
LM End	5.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				o
					o
DWR ID	DWR_NA0002_01_s_2014_53				
Action/Comments					
Material					
Inspector Comments: Concrete slabs on water ward berm area.					
Possible undermining. The Slab should be removed or broken up in					
place to meet Title 23 standard for Rip Rap.					

LM Start	5.72	Rating **	M	Issue No.	53 (cont)
LM End	5.72	Issue Type +	Ma	Location *	WS

LM Start	5.72	Rating **	M	Issue No.	53 (cont)
LM End	5.72	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP_2015_NA0002_62_53_20150309_00031.jpg



Looking north at a collapsed concrete slab on waterward berm.

Photo 2 of 4 : SP_2015_NA0002_62_53_20150309_00032.jpg



Looking south at south end of a concrete slab on waterward berm.

Photo 3 of 4 : SP_2015_NA0002_62_53_20150309_00033.jpg



Looking north at a collapsed concrete slab on waterward berm.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.72	Rating **	M	Issue No.	53 (cont)	
LM End	5.72	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments				°	
					°	
DWR ID	DWR_NA0002_01_s_2014_53					
Action/Comments						
Material						
Inspector Comments: Concrete slabs on water ward berm area.						
Possible undermining. The Slab should be removed or broken up in						
place to meet Title 23 standard for Rip Rap.						

Photo 4 of 4 : SP_2015_NA0002_62_53_20150309_00034.jpg



Looking south at a collapsed concrete slab on waterward berm.

LM Start	5.75	Rating **	A/W	Issue No.	34
LM End	5.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129462 °	38.129608 °
				-121.583337 °	-121.582085 °
DWR ID	DWR_NA0002_01_f_2013_34				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove berryvine from waterward slope.					

No Photos

LM Start	5.78	Rating **	M	Issue No.	17
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.129537 °	38.129599 °
				-121.582760 °	-121.582155 °
DWR ID	DWR_NA0002_01_s_2012_17				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.85	Rating **	A/W	Issue No.	52
LM End	5.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				°
					°
DWR ID	DWR_NA0002_01_s_2014_52				
Action/Comments					
Landscaping					
Inspector Comments: Fruit trees on landward toe blocking view.					

Photo 1 of 1 : SP_2015_NA0002_62_52_20150309_00030.jpg



Looking north at dense vegetation at landward toe.

LM Start	5.88	Rating **	M	Issue No.	51
LM End	5.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.129722 °	38.129722 °
				-121.580823 °	-121.580823 °
DWR ID	DWR_NA0002_01_f_2014_51				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable 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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	11.54
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/12/2015 - 03/12/2015			
DWR Inspector	Richard Willoughby			
Accompanied By	Gilbert Labrie DCC Engineering Co, Inc			

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	94
LM End	10.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.191700 °	38.123283 °
				-121.568299 °	-121.690464 °
DWR ID	DWR_NA0002_02_s _ 2015_94				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.07	Rating **	M	Issue No.	95
LM End	11.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.191475 °	38.112617 °
				-121.568947 °	-121.697641 °
DWR ID	DWR_NA0002_02_s _ 2015_95				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.43	Rating **	M	Issue No.	26
LM End	0.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.189212 °	38.189212 °
				-121.574757 °	-121.574757 °
DWR ID	DWR_NA0002_02_s _ 2012_26				
Action/Comments					
Fence					

Photo 1 of 1 : SP_2015_NA0002_63_26_20150309_00024.jpg



Looking northeast at fence on landward shoulder and slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	39
LM End	0.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.188872 °	38.188872 °
				-121.575775 °	-121.575775 °
DWR ID	DWR_NA0002_02_f_2013_39				
Action/Comments					
Building					
Inspector Comments: Storage container at landward toe.					

Photo 1 of 1 : SP_2015_NA0002_63_39_20150309_00036.jpg



Looking east at storage container at landward toe.

LM Start	0.49	Rating **	M	Issue No.	40
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188871 °	38.188871 °
				-121.575775 °	-121.575775 °
DWR ID	DWR_NA0002_02_f_2013_40				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Berryvines at landward toe.					

Photo 1 of 3 : SP_2015_NA0002_63_40_20150309_00037.jpg



Looking southeast at berryvines at landward toe.

LM Start	0.49	Rating **	M	Issue No.	40 (cont)
LM End	0.49	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2015_NA0002_63_40_20150309_00038.jpg



Looking east at berryvines at landward toe.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	40 (cont)
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188871 °	38.188871 °
				-121.575775 °	-121.575775 °
DWR ID	DWR_NA0002_02_f_2013_40				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Berryvines at landward toe.					

Photo 3 of 3 : SP_2015_NA0002_63_40_20150309_00039.jpg



Looking northeast at berryvines at landward toe.

LM Start	0.66	Rating **	M	Issue No.	1
LM End	0.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.187672 °	38.187672 °
				-121.578496 °	-121.578496 °
DWR ID	DWR_NA0002_02_s_2012_1				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	0.79	Rating **	U	Issue No.	2
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.186535 °	38.186103 °
				-121.580395 °	-121.581127 °
DWR ID	DWR_NA0002_02_s_2012_2				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 2 : SP_2015_NA0002_63_2_20150309_00001.jpg



Looking north at dense vegetation on waterward slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	2 (cont)	
LM End	0.84	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.186535 °	38.186103 °	
				-121.580395 °	-121.581127 °	
DWR ID	DWR_NA0002_02_s _ 2012_2					
Action/Comments						
Trim trees to at least five feet above ground level.						

Photo 2 of 2 : SP_2015_NA0002_63_2_20150309_00002.jpg



Looking south at dense vegetation on waterside slope.

LM Start	0.80	Rating **	M	Issue No.	8
LM End	0.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186455 °	38.186215 °
				-121.580712 °	-121.581060 °
DWR ID	DWR_NA0002_02_s _ 2012_8				
Action/Comments					
Landscaping					

Photo 1 of 2 : SP_2015_NA0002_63_8_20150309_00006.jpg



Looking southeast at dense landscaping on landside slope.

LM Start	0.80	Rating **	M	Issue No.	8 (cont)
LM End	0.83	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2015_NA0002_63_8_20150309_00007.jpg



Landscaping on landside slope blocking view of slope from LM .81 to 0.83.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.82	Rating **	M	Issue No.	21
LM End	0.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.186199 °	38.186199 °
				-121.580968 °	-121.580968 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12164 DS_ID:21868 EP_NO: 1173 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Several patches on pipe, walkway in disrepair and 24-					

No Photos

LM Start	1.16	Rating **	C	Issue No.	41
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.182465 °	38.182465 °
				-121.584957 °	-121.584957 °
DWR ID	DWR_NA0002_02_f_2013_41				
Action/Comments					
Garbage Inspector Comments: Trash (sofa) on waterward slope.					

No Photos

LM Start	1.39	Rating **	M	Issue No.	24
LM End	1.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.179666 °	38.179666 °
				-121.587109 °	-121.587109 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12165 DS_ID:21869 EP_NO: 11261 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. Pipe open on WS. FIELD_STRUCT_DESC: 8-inch pipe through levee 6.5 feet below crown. Pump in pump house on berm. 7'X9' concrete distribution box on LS toe. Service poles on the landward slope with a 1.5-inch galvanized steel electrical conduit at same location (ABO No. 11261, 1975). Originally included in the 1954 O&M manual. FS Date: 04/18/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.40	Rating **	M	Issue No.	96
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179543 °	38.179543 °
				-121.587226 °	-121.587226 °
DWR ID	DWR_NA0002_02_s _ 2015_96				
Action/Comments					
Tree or limb					
Inspector Comments: Broken tree branch on landward toe.					

Photo 1 of 1 : SP_2015_NA0002_63_96_20150313_00095.jpg



Looking east at broken tree limb at landward toe.

LM Start	1.45	Rating **	M	Issue No.	27
LM End	1.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.178950 °	38.178950 °
				-121.587717 °	-121.587717 °
DWR ID	DWR_NA0002_02_s _ 2012_27				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Dense vegetation should be trimmed back fifteen feet from landward toe.					

Photo 1 of 2 : SP_2015_NA0002_63_27_20150309_00025.jpg



Looking northeast at dense vegetation on landward toe.

LM Start	1.45	Rating **	M	Issue No.	27 (cont)
LM End	1.45	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2015_NA0002_63_27_20150309_00026.jpg



Looking southeast at dense trees on landside toe.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.60	Rating **	M	Issue No.	35
LM End	1.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.177105 °	38.176837 °
				-121.589058 °	-121.589225 °
DWR ID	DWR_NA0002_02_s _ 2012_35				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.61	Rating **	M	Issue No.	34
LM End	1.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.176874 °	38.176874 °
				-121.589200 °	-121.589200 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12183 DS_ID:21870 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 5.8 feet below the crown. 3'X3' concrete distribution box at LS toe. PVC standpipe at WS toe. Hose bib attachment on pipe at LS toe. FS Date: 04/18/2013					

No Photos

LM Start	1.64	Rating **	A/W	Issue No.	3
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.176486 °	38.176486 °
				-121.589445 °	-121.589445 °
DWR ID	DWR_NA0002_02_s _ 2012_3				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.69	Rating **	M	Issue No.	97
LM End	1.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175957 °	38.175957 °
				-121.589837 °	-121.589837 °
DWR ID	DWR_NA0002_02_f_2014_97				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limbs discarded on landward slope.					

Photo 1 of 2 : SP_2015_NA0002_63_97_20150309_00056.jpg



Looking southeast at tree limb on landward slope.

LM Start	1.69	Rating **	M	Issue No.	97 (cont)
LM End	1.69	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_NA0002_63_97_20150309_00057.jpg



Looking northeast at tree limb on landward slope.

LM Start	1.75	Rating **	M	Issue No.	108
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175073 °	38.175073 °
				-121.590350 °	-121.590350 °
DWR ID	DWR_NA0002_02_s_2015_108				
Action/Comments					
Tree or limb					
Inspector Comments: Old fallen tree on landward shoulder and slope.					
Fallen tree left a 24" by 12" hole on landward shoulder and slope.					

Photo 1 of 2 : SP_2015_NA0002_63_108_20150313_00096.jpg



Looking northeast at fallen tree and hole on landward shoulder. (Spring 2015)

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	108 (cont)	
LM End	1.75	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.175073 °	38.175073 °	
				-121.590350 °	-121.590350 °	
DWR ID	DWR_NA0002_02_s _ 2015_108					
Action/Comments						
Tree or limb						
Inspector Comments: Old fallen tree on landward shoulder and slope.						
Fallen tree left a 24" by 12" hole on landward shoulder and slope.						

Photo 2 of 2 : SP_2015_NA0002_63_108_20150313_00097.jpg



Looking southeast at fallen tree and hole on landward shoulder and slope. (Spring 2015).

LM Start	1.80	Rating **	U	Issue No.	109
LM End	1.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.174526 °	38.174526 °
				-121.590715 °	-121.590715 °
DWR ID	DWR_NA0002_02_s _ 2015_109				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Forty-eight inch by eighteen inch diameter hole on landward shoulder cause by fallen tree.					

Photo 1 of 4 : SP_2015_NA0002_63_109_20150313_00098.jpg



Looking north at hole and tree stump on landward shoulder. (Spring 2015)

LM Start	1.80	Rating **	U	Issue No.	109 (cont)
LM End	1.80	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP_2015_NA0002_63_109_20150313_00099.jpg



Looking east at tree stump on landward slope. (Spring 2015).

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.80	Rating **	U	Issue No.	109 (cont)	
LM End	1.80	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.174526 °	38.174526 °	
				-121.590715 °	-121.590715 °	
DWR ID	DWR_NA0002_02_s _ 2015_109					
Action/Comments						
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Forty-eight inch by eighteen inch diameter hole on landward shoulder cause by fallen tree.						

Photo 3 of 4 : SP_2015_NA0002_63_109_20150313_00100.jpg



Looking south at hole at landward shoulder. (Spring 2015)

Photo 4 of 4 : SP_2015_NA0002_63_109_20150313_00101.jpg



Looking southeast at tree stump on landward slope. (Spring 2015).

LM Start	1.80	Rating **	M	Issue No.	98
LM End	1.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174466 °	38.174466 °
				-121.590791 °	-121.590791 °
DWR ID	DWR_NA0002_02_f _ 2014_98				
Action/Comments					
Building					
Inspector Comments: Animal pens within 15 feet of landward toe.					

Photo 1 of 2 : SP_2015_NA0002_63_98_20150309_00058.jpg



Looking southeast at animal pens at landward toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.80	Rating **	M	Issue No.	98 (cont)
LM End	1.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174466 °	38.174466 °
				-121.590791 °	-121.590791 °
DWR ID	DWR_NA0002_02_f_2014_98				
Action/Comments					
Building					
Inspector Comments: Animal pens within 15 feet of landward toe.					

Photo 2 of 2 : SP_2015_NA0002_63_98_20150309_00059.jpg



Looking east at animal pens at landward toe.

LM Start	1.80	Rating **	U	Issue No.	45
LM End	1.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174437 °	38.174153 °
				-121.590786 °	-121.590980 °
DWR ID	DWR_NA0002_02_f_2013_45				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dense vegetation on landward slope and toe					

Photo 1 of 2 : SP_2015_NA0002_63_45_20150309_00043.jpg



Looking southeast at dense vegetation on landward slope.

LM Start	1.80	Rating **	U	Issue No.	45 (cont)
LM End	1.82	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_NA0002_63_45_20150309_00044.jpg



Looking north at dense vegetation on landward slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.80	Rating **	M	Issue No.	46
LM End	1.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174433 °	38.174433 °
				-121.590792 °	-121.590792 °
DWR ID	DWR_NA0002_02_f_2013_46				
Action/Comments					
Building					
Inspector Comments: Animal pens at landward toe.					

Photo 1 of 1 : SP_2015_NA0002_63_46_20150309_00045.jpg



Looking east at animal pens at landward toe.

LM Start	1.81	Rating **	M	Issue No.	28
LM End	1.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174302 °	38.174302 °
				-121.590863 °	-121.590863 °
DWR ID	DWR_NA0002_02_s_2012_28				
Action/Comments					
Landscaping Inspector Comments: Cactus on landward slope.					

Photo 1 of 1 : SP_2015_NA0002_63_28_20150309_00027.jpg



Looking northeast at cactus on landward slope and toe.

LM Start	1.83	Rating **	M	Issue No.	54
LM End	1.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174097 °	38.174097 °
				-121.591002 °	-121.591002 °
DWR ID	DWR_NA0002_02_f_2013_54				
Action/Comments					
Tank					
Inspector Comments: Propane tank on landward slope.					

Photo 1 of 1 : SP_2015_NA0002_63_54_20150309_00051.jpg



Looking southeast at propane tank on landward slope and toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.84	Rating **	A/W	Issue No.	4
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.173905 °	38.173905 °
				-121.591082 °	-121.591082 °
DWR ID	DWR_NA0002_02_s _ 2012_4				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.90	Rating **	M	Issue No.	43
LM End	1.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.173197 °	38.173197 °
				-121.591552 °	-121.591552 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12185 DS_ID:21872 EP_NO: 11294 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned on both sides. Pipe should be abandoned properly. FIELD_STRUCT_DESC: 6-inch pipe through the levee 6.5 feet below the crown. Pump in pumphouse on the water ward slope. 1-inch galvanized iron steel electrical conduit at same location (ABO No. 11294, 1975). Originally included in the 1954 O&M manual. FS Date: 04/18/2013					

No Photos

LM Start	1.90	Rating **	U	Issue No.	12
LM End	1.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.173120 °	38.172598 °
				-121.591505 °	-121.591853 °
DWR ID	DWR_NA0002_02_s _ 2012_12				
Action/Comments					
Landscaping					

Photo 1 of 2 : SP_2015_NA0002_63_12_20150309_00012.jpg



Looking south at dense landscaping on landside slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.90	Rating **	U	Issue No.	12 (cont)	
LM End	1.94	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.173120 °		38.172598 °
				-121.591505 °		-121.591853 °
DWR ID	DWR_NA0002_02_s _ 2012_12					
Action/Comments						
Landscaping						

Photo 2 of 2 : SP_2015_NA0002_63_12_20150309_00013.jpg



Landscaping on landside slope blocking view of slope from LM 1.91 to 1.95.

LM Start	2.34	Rating **	U	Issue No.	25
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.167627 °	38.167152 °
				-121.595538 °	-121.595997 °
DWR ID	DWR_NA0002_02_s _ 2012_25				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : SP_2015_NA0002_63_25_20150313_00102.jpg



Looking southeast at trees at landward shoulder. (Spring 2015)

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.42	Rating **	M	Issue No.	49
LM End	2.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.166819 °	38.166819 °
				-121.596590 °	-121.596590 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12211 DS_ID:21878 EP_NO: 11263 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Further investigation to determine location of pipe should be done. Pumphouse needs to be unlocked to gather additional information. FIELD_STRUCT_DESC: 8-inch pipe through levee 3.7 feet below crown. Pump in pump house on the waterward berm (ABO No. 11263, 1975). 30" concrete standpipe landward side. Originally included in the 1954 O&M manual. FS Date: 04/18/2013					

No Photos

LM Start	2.42	Rating **	M	Issue No.	99
LM End	2.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.166772 °	38.166772 °
				-121.596667 °	-121.596667 °
DWR ID	DWR_NA0002_02_s _ 2014_99				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense willows on landward slope.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.48	Rating **	U	Issue No.	29
LM End	2.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.166378 °	38.166378 °
				-121.597570 °	-121.597570 °
DWR ID	DWR_NA0002_02_s _ 2012_29				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 2 : SP_2015_NA0002_63_29_20150309_00028.jpg



Looking north at dense vegetation on landward slope.

LM Start	2.48	Rating **	U	Issue No.	29 (cont)
LM End	2.48	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2015_NA0002_63_29_20150309_00029.jpg



Looking south at dense vegetation on landward slope.

LM Start	2.54	Rating **	U	Issue No.	53
LM End	2.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.165980 °	38.165980 °
				-121.598520 °	-121.598520 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12212					
DS_ID:21879					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Culvert open on both ends. Needs to be abandoned					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.57	Rating **	U	Issue No.	60
LM End	2.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.165775 °	38.165775 °
				-121.599048 °	-121.599048 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12213					
DS_ID:21880					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: tunnel should be abandoned properly.					
FIELD_STRUCT_DESC: *Abandoned* 4.0 x 4.0-foot open concrete					
culvert through levee 6.5-inches below the crown. Originally included in					
the 1954 O&M manual.					
FS Date: 04/18/2013					

No Photos

LM Start	2.58	Rating **	M	Issue No.	58
LM End	2.63	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.165945 °	38.165498 °
				-121.599345 °	-121.600080 °
DWR ID	DWR_NA0002_02_f_2014_58				
Action/Comments					
Inspector Comments: 2009 - Short reach of vertical bank at the toe. 2010 - Large tree is getting ready to fall in. 2013: No observed changes. [2013 Site ID: SAC_18-1_L]					

No Photos

LM Start	2.65	Rating **	M	Issue No.	38
LM End	2.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.165303 °	38.164682 °
				-121.600477 °	-121.601804 °
DWR ID	DWR_NA0002_02_f_2014_38				
Action/Comments					
Inspector Comments: 2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2013: No observed changes. [2013 Site ID: SAC_18-0_L]					

Photo 1 of 2 : SP_2015_NA0002_63_38_20150309_00034.jpg



USACE 2013 Photo #1

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

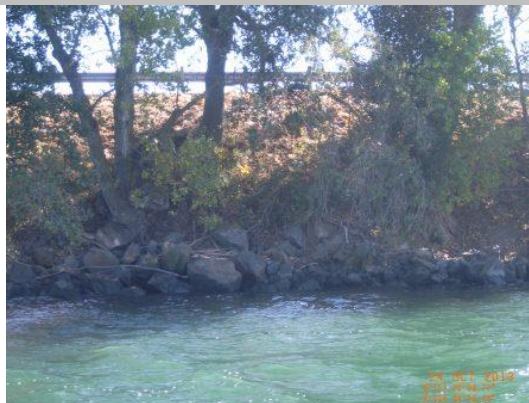
Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.65	Rating **	M	Issue No.	38 (cont)
LM End	2.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.165303 °	38.164682 °
				-121.600477 °	-121.601804 °
DWR ID	DWR_NA0002_02_f_2014_38				
Action/Comments					
Inspector Comments: 2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2013: No observed changes. [2013 Site ID: SAC_18-0_L]					

Photo 2 of 2 : SP_2015_NA0002_63_38_20150309_00035.jpg



USACE 2013 Photo #2

LM Start	2.76	Rating **	M	Issue No.	61
LM End	2.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164432 °	38.164432 °
				-121.601918 °	-121.601918 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12214 DS_ID:21881 EP_NO: 2005 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and rusty. It should be abandoned properly if it is no longer in use. FIELD_STRUCT_DESC: 18-inch sewer discharge line through levee 4.0 feet below crown. Two pile dolphins in stream, fire hydrant on landward shoulder (Permit No. 2005, 1959). FS Date: 04/18/2013					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.84	Rating **	U	Issue No.	62
LM End	2.84	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163850 °	38.163850 °
				-121.603317 °	-121.603317 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12216 DS_ID:21882 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Tunnel open on both ends and should be abandoned properly. FIELD_STRUCT_DESC: *Abandoned* 4'X6' open concrete culvert through levee 1.0 foot below the crown. Originally included in the 1954 O&M manual. FS Date: 04/18/2013					

No Photos

LM Start	2.90	Rating **	M	Issue No.	63
LM End	2.90	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163475 °	38.163475 °
				-121.604221 °	-121.604221 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12217 DS_ID:21883 EP_NO: 11269 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe needs to be abandoned properly if it is truly abandoned. FIELD_STRUCT_DESC: 8-inch pipe through levee 8.7 feet below crown. Pump in pump house on the waterward slope. Slide gate in pumphouse. Pipe not visible on LS. (ABO No. 11269,1975). Originally included in the 1959 O&M manual. FS Date: 04/18/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.91	Rating **	M	Issue No.	64
LM End	2.91	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163413 °	38.163413 °
				-121.604399 °	-121.604399 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:16005 DS_ID:21884 EP_NO: 14173 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: If pipe is still in use it should be marked properly on levee. FIELD_STRUCT_DESC: 12-inch telephone conduit through levee 2.0 feet below crown and under channel (Permit No. 14173, 1985). Four 4-inch galvanized iron conductor pipe sleeved through it. Sign on WS slope of levee accross river provides location for this crossing. FS Date: 04/18/2013					

LM Start	2.93	Rating **	M	Issue No.	30
LM End	3.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.163317 °	38.162707 °
				-121.604813 °	-121.608262 °
DWR ID	DWR_NA0002_02_s _ 2012_30				
Action/Comments					
Urban					

Photo 1 of 2 : SP_2015_NA0002_63_30_20150309_00030.jpg



Looking north at urban encroachments on landward slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.93	Rating **	M	Issue No.	30 (cont)
LM End	3.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.163317 °	38.162707 °
				-121.604813 °	-121.608262 °
DWR ID	DWR_NA0002_02_s _ 2012_30				
Action/Comments					
Urban					

Photo 2 of 2 : SP_2015_NA0002_63_30_20150309_00031.jpg



Looking south at urban encroachments on landward slope.

LM Start	2.99	Rating **	M	Issue No.	65
LM End	2.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163063 °	38.163063 °
				-121.605799 °	-121.605799 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12724 DS_ID:21886 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be abandoned properly. FIELD_STRUCT_DESC: *Abandoned* 6-inch pipe through levee 4.5 feet below crown. Originally included in the 1959 O&M manual. Pipe visible at foundation on WS shoulder. FS Date: 04/24/2013					

No Photos

LM Start	3.13	Rating **	M	Issue No.	104
LM End	3.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162718 °	38.162718 °
				-121.608452 °	-121.608452 °
DWR ID	DWR_NA0002_02_f _ 2014_104				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo reestablishing on waterward slope.					

Photo 1 of 1 : SP_2015_NA0002_63_104_20150309_00061.jpg



Looking southwest at bamboo on waterward slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.17	Rating **	M	Issue No.	5
LM End	3.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162638 °	38.162638 °
				-121.609068 °	-121.609068 °
DWR ID	DWR_NA0002_02_s _ 2012_5				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

Photo 1 of 2 : SP_2015_NA0002_63_5_20150309_00003.jpg



Looking south at overhanging tree on waterward shoulder. (Fall 2014)

Photo 2 of 2 : SP_2015_NA0002_63_5_20150309_00004.jpg



Looking south at overhanging tree on waterside shoulder.

LM Start	3.17	Rating **	M	Issue No.	5 (cont)
LM End	3.17	Issue Type +	Ma	Location *	WS

LM Start	3.20	Rating **	A/W	Issue No.	6
LM End	3.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162643 °	38.162643 °
				-121.609616 °	-121.609616 °
DWR ID	DWR_NA0002_02_s _ 2012_6				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.22	Rating **	M	Issue No.	7
LM End	3.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162609 °	38.162609 °
				-121.609979 °	-121.609979 °
DWR ID	DWR_NA0002_02_s_2012_7				
Action/Comments					
Landscaping					

Photo 1 of 1 : SP_2015_NA0002_63_7_20150309_00005.jpg



Looking south at overgrown landscaping on landward slope.

LM Start	3.29	Rating **	M	Issue No.	66
LM End	3.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162430 °	38.162430 °
				-121.611248 °	-121.611248 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15966					
DS_ID:23135					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to determine disposition and use of pipe.					
FIELD_STRUCT_DESC: 4-inch cast iron pipe through the levee 8-feet below the crown. Pipe visible next to foundation on LS toe.					
FS Date: 04/24/2013					

No Photos

LM Start	3.31	Rating **	M	Issue No.	67
LM End	3.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162378 °	38.162378 °
				-121.611656 °	-121.611656 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41838					
DS_ID:23136					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Only USAA paint on pavement. Gasline should be permanently marked.					
FIELD_STRUCT_DESC: Gas line markers on pavement.					
FS Date: 04/24/2013					

No Photos

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

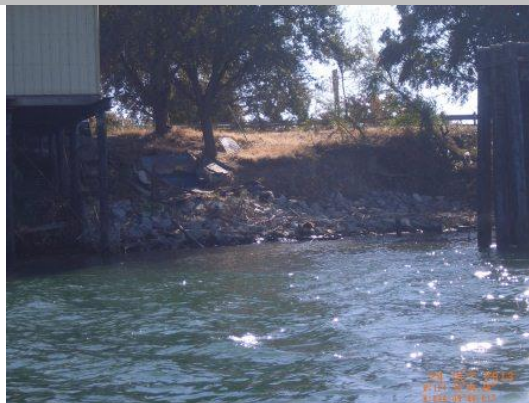
Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.37	Rating **	U	Issue No.	37
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.162641 °	38.162828 °
				-121.612800 °	-121.616263 °
DWR ID	DWR_NA0002_02_f_2014_37				
Action/Comments					
Inspector Comments: 2009 - Fluvial erosion, into the levee slope, close to vertical bank with roadway on top. Pilings that were once at the bankline are now 30 ft out. 2010 - Very steep slope with slumps and overturned trees. 2011 - Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. Structures built into the levee on the upstream end. 2012 - Site continues to worsen. 2013: Some rock added on the upstream end, but site remains critical. [2013 Site ID: SAC_17-2_L]					

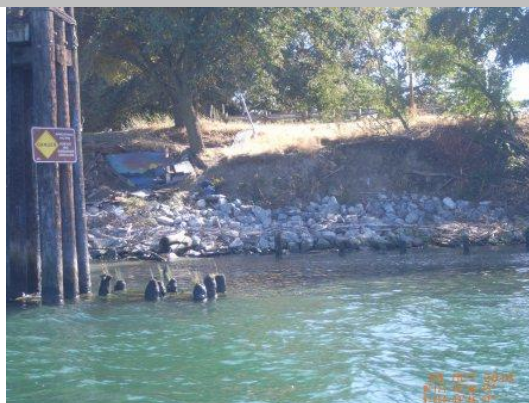
Photo 1 of 2 : SP_2015_NA0002_63_37_20150309_00032.jpg



USACE 2013 Photo #1

LM Start	3.37	Rating **	U	Issue No.	37 (cont)
LM End	3.56	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_NA0002_63_37_20150309_00033.jpg



USACE 2013 Photo #2

LM Start	3.38	Rating **	M	Issue No.	68
LM End	3.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162388 °	38.162388 °
				-121.612847 °	-121.612847 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12745 DS_ID:21892 EP_NO: 11266 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe has been abandoned and should be					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.39	Rating **	M	Issue No.	100
LM End	3.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162394 °	38.162432 °
				-121.613146 °	-121.613637 °
DWR ID	DWR_NA0002_02_s_2014_100				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

No Photos

LM Start	3.44	Rating **	M	Issue No.	69
LM End	3.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162473 °	38.162473 °
				-121.613963 °	-121.613963 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12746 DS_ID:21893 EP_NO: 11275 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be abandoned properly. Pipe open on both ends. FIELD_STRUCT_DESC: 8-inch pipe through levee 7.7 feet below crown. Pump in pump house on the water ward slope (ABO No. 11275, 1975). Originally included in the 1959 O&M manual. FS Date: 04/24/2013					

No Photos

LM Start	3.47	Rating **	M	Issue No.	101
LM End	3.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162492 °	38.162600 °
				-121.614521 °	-121.615667 °
DWR ID	DWR_NA0002_02_s_2014_101				
Action/Comments					
Landscaping					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.51	Rating **	M	Issue No.	22
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162590 °	38.162728 °
				-121.615345 °	-121.616622 °
DWR ID	DWR_NA0002_02_s_2012_22				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.62	Rating **	U	Issue No.	23
LM End	3.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.162959 °	38.163334 °
				-121.617323 °	-121.619312 °
DWR ID	DWR_NA0002_02_f_2014_23				
Action/Comments					
Inspector Comments: 2008 - Overstepped levee section with pocket erosion. Plans for repair currently in the design phase. 2010 - Very steep slope with slumps, longitudinal cracking, and overturned trees. 2011 - Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. 2013: No observed changes. [2013 Site ID: SAC_16-8_L]					

Photo 1 of 1 : SP_2015_NA0002_63_23_20150309_00021.jpg



USACE 2013 Photo #1

LM Start	3.66	Rating **	U	Issue No.	55
LM End	3.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.162855 °	38.162855 °
				-121.618114 °	-121.618114 °
DWR ID	DWR_NA0002_02_f_2013_55				
Action/Comments					
Pipe Inspector Comments: Landowner is repairing a pipe (Permit # 1615) without authorization from CVFPB. The excavation next to ramp is four to five feet deep and three to four feet wide. Landowner needs to ensure the hole is backfilled properly. Landowner backfilled trench without compaction results.					

Photo 1 of 5 : SP_2015_NA0002_63_55_20150313_00103.jpg



Looking southeast at backfilled trench next to ramp on landward slope. (Spring 2015).

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.66	Rating **	U	Issue No.	55 (cont)	
LM End	3.66	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.162855 °	38.162855 °	
				-121.618114 °	-121.618114 °	
DWR ID	DWR_NA0002_02_f_2013_55					
Action/Comments						
Pipe Inspector Comments: Landowner is repairing a pipe (Permit # 1615) without authorization from CVFPB. The excavation next to ramp is four to five feet deep and three to four feet wide. Landowner needs to ensure the hole is backfilled properly. Landowner backfilled trench without compaction results.						

Photo 2 of 5 : SP_2015_NA0002_63_55_20150313_00104.jpg



Looking east at backfilled trench next to ramp on landward slope.
(Spring 2015).

LM Start	3.66	Rating **	U	Issue No.	55 (cont)
LM End	3.66	Issue Type +	En	Location *	LS

Photo 3 of 5 : SP_2015_NA0002_63_55_20150309_00052.jpg



Looking east at excavation on landward slope. (Spring 2014)

LM Start	3.66	Rating **	U	Issue No.	55 (cont)
LM End	3.66	Issue Type +	En	Location *	LS

Photo 4 of 5 : SP_2015_NA0002_63_55_20150309_00053.jpg



Looking south at excavation on landward slope. (Spring 2014)

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.66	Rating **	U	Issue No.	55 (cont)
LM End	3.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.162855 °	38.162855 °
				-121.618114 °	-121.618114 °
DWR ID	DWR_NA0002_02_f_2013_55				
Action/Comments					
Pipe Inspector Comments: Landowner is repairing a pipe (Permit # 1615) without authorization from CVFPB. The excavation next to ramp is four to five feet deep and three to four feet wide. Landowner needs to ensure the hole is backfilled properly. Landowner backfilled trench without compaction results.					

Photo 5 of 5 : SP_2015_NA0002_63_55_20150309_00054.jpg



Looking southeast at excavation on landward slope next to ramp.
(Spring 2014)

LM Start	3.67	Rating **	U	Issue No.	70
LM End	3.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162908 °	38.162908 °
				-121.618075 °	-121.618075 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43103 DS_ID:21894 EP_NO: 13462 Repair Type: Urgent Crossing Status: Found UCIP Comments: Possible sinkhole over pipe on WS shoulder. Good candidate for video inspection. FIELD_STRUCT_DESC: 16-inch pipe through levee 2.5 feet below crown (Permit No. 13462, 1982). Connected to an existing 42" concrete pipe sump. Replaces a pipe that was grouted in place. FS Date: 04/24/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.71	Rating **	M	Issue No.	71
LM End	3.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163048 °	38.163048 °
				-121.618839 °	-121.618839 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12748 DS_ID:21895 EP_NO: 1615 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be abandoned properly. FIELD_STRUCT_DESC: 8-inch pipe through levee 7.7 feet below crown. 6'X6' concrete distribution box on LS toe (Permit No. 1615, 1959). Included in the 1959 O&M manual. FS Date: 04/24/2013					

No Photos

LM Start	3.93	Rating **	M	Issue No.	72
LM End	3.93	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164063 °	38.164063 °
				-121.622650 °	-121.622650 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12752 DS_ID:21898 EP_NO: 11287 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Aging pipe with repair on WS slope. Good candidate for video inspection. FIELD_STRUCT_DESC: 5-inch pipe through levee 5.5 feet below crown. Pump in pump house on the landward side (ABO No. 11287, 1959). Shutoff vlave in pumphouse on LS toe. Originally included in the 1959 O&M manual. FS Date: 04/24/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.96	Rating **	M	Issue No.	102
LM End	3.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.164246 °	38.164246 °
				-121.623272 °	-121.623272 °
DWR ID	DWR_NA0002_02_s _ 2014_102				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	4.00	Rating **	M	Issue No.	31
LM End	4.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.164470 °	38.164470 °
				-121.624012 °	-121.624012 °
DWR ID	DWR_NA0002_02_s _ 2012_31				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	4.02	Rating **	U	Issue No.	59
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.164498 °	38.165167 °
				-121.624343 °	-121.626273 °
DWR ID	DWR_NA0002_02_s _ 2012_59				
Action/Comments					
Landscaping					

Photo 1 of 1 : SP_2015_NA0002_63_59_20150309_00055.jpg



Looking south at dense landscaping on landward slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	4.06	Rating **	M	Issue No.	73
LM End	4.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164727 °	38.164727 °
				-121.624869 °	-121.624869 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12764					
DS_ID:21902					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Need to determine disposition of this crossing.					
FIELD_STRUCT_DESC: 4x4-foot concrete tunnel through levee 5.0					
feet below crown. Originally included in the 1959 O&M manual.					
FS Date: 04/24/2013					

No Photos

LM Start	4.12	Rating **	M	Issue No.	74
LM End	4.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.165016 °	38.165016 °
				-121.625834 °	-121.625834 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12768 DS_ID:21904 EP_NO: 787 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe may be abandoned and should be done so properly if not being used. Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through levee 4.2 feet below crown. Pump on pile structure in stream (Permit No. 787, 1939). Included in the 1959 O&M manual. FS Date: 04/24/2013					

No Photos

LM Start	4.46	Rating **	A/W	Issue No.	32
LM End	4.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.167135 °	38.167135 °
				-121.631662 °	-121.631662 °
DWR ID	DWR_NA0002_02_s_2012_32				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	4.49	Rating **	M	Issue No.	75
LM End	4.49	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.167174 °	38.167174 °
				-121.631927 °	-121.631927 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16010 DS_ID:21907 EP_NO: 11274 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be abandoned properly if not already done so. FIELD_STRUCT_DESC: 2 of 2: 10-inch pipe through levee 6.6 feet below crown. Pump in pump house on the landward slope (ABO No. 11274,1975). Originally included in the 1959 O&M manual. Pumphouse not visible 4/24/2013. FS Date: 04/24/2013					

No Photos

LM Start	4.80	Rating **	M	Issue No.	76
LM End	4.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.168744 °	38.168744 °
				-121.637155 °	-121.637155 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12773 DS_ID:21908 EP_NO: 11285 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pit under pipe on WS shoulder - possible leak. Excavation of pipe on LS slope into levee prism. FIELD_STRUCT_DESC: 20-inch pipe sleeved through a 22-inch sleeved through a 24-inch pipe through levee 3-feet below the crown. Pump on landward side (ABO No. 11285, 1975). Small pump on LS shoulder and a 7'X9' concrete sump on the LS toe. Originally included in the 1959 O&M manual. FS Date: 05/02/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	4.84	Rating **	M	Issue No.	77
LM End	4.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.168887 °	38.168887 °
				-121.637957 °	-121.637957 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:12774 DS_ID:21909 EP_NO: 724 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on waterside at fallen down pumphouse. Pipe abandoned. Service pole on LS slope down on ground near broken standpipe. Pipe needs to be properly abandoned. FIELD_STRUCT_DESC: 10-inch pipe through levee 3.8 feet below crown. Pump in pumphouse on the water ward slope. Service pole on the landward slope (Permit No. 724, 1937). Replaces a 10-inch pipe approx. same location. 32-inch concrete standpipe on LS toe. 1.5-inch electrical conduit runs parallel to 10-inch pipe. Included in the 1959 O&M manual. FS Date: 05/02/2013					

LM Start	5.31	Rating **	U	Issue No.	9
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.171878 °	38.171800 °
				-121.645552 °	-121.647447 °
DWR ID	DWR NA0002 02 s 2012 9				

Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 3 : SP_2015_NA0002_63_9_20150309_00008.jpg



Looking southeast at dense trees on landside slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	5.31	Rating **	U	Issue No.	9 (cont)	
LM End	5.42	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.171878 °	38.171800 °	
				-121.645552 °	-121.647447 °	
DWR ID	DWR_NA0002_02_s _ 2012_9					
Action/Comments						
Thin trees to allow visibility of the ground and room to flood fight.						

Photo 2 of 3 : SP_2015_NA0002_63_9_20150309_00009.jpg



Looking northwest at dense trees on waterward shoulder and slope.

Photo 3 of 3 : SP_2015_NA0002_63_9_20150309_00010.jpg



Looking west at dense trees on waterward should and slope.

LM Start	5.39	Rating **	M	Issue No.	56
LM End	5.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.171850 °	38.171850 °
				-121.647000 °	-121.647000 °
DWR ID	DWR_NA0002_02_f _ 2013_56				
Action/Comments					
Fence					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	5.42	Rating **	M	Issue No.	78
LM End	5.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.171824 °	38.171824 °
				-121.647265 °	-121.647265 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12776 DS_ID:21910 EP_NO: 7089A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole at LS toe over pipe possible sign of leakage. FIELD_STRUCT_DESC: 7-inch pipe through levee 13.0 feet below crown. Pump in pump house on the landward side. 1.5-inch galvanized steel electrical conduit at same location. 4'X6' concrete distribution box off LS toe next to pumphouse. Originally included in the 1959 O&M manual. FS Date: 05/02/2013					

No Photos

LM Start	5.58	Rating **	A/W	Issue No.	10
LM End	5.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172019 °	38.172019 °
				-121.650327 °	-121.650327 °
DWR ID	DWR_NA0002_02_s_2012_10				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	5.65	Rating **	A/W	Issue No.	11
LM End	5.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.172308 °	38.172497 °
				-121.651552 °	-121.652243 °
DWR ID	DWR_NA0002_02_s_2012_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

Photo 1 of 1 : SP_2015_NA0002_63_11_20150309_00011.jpg



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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	5.66	Rating **	A/W	Issue No.	36
LM End	5.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172388 °	38.172512 °
				-121.651892 °	-121.652322 °
DWR ID	DWR_NA0002_02_s _ 2012_36				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	5.68	Rating **	M	Issue No.	51
LM End	5.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.172442 °	38.172442 °
				-121.652182 °	-121.652182 °
DWR ID	DWR_NA0002_02_s _ 2013_51				
Action/Comments					
Building					
Inspector Comments: Tool shed and animal pen at landside toe.					

Photo 1 of 1 : SP_2015_NA0002_63_51_20150309_00050.jpg



Looking east tool shed and animal corral on landward slope and toe.

LM Start	5.68	Rating **	A/W	Issue No.	52
LM End	5.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.172457 °	38.172457 °
				-121.652188 °	-121.652188 °
DWR ID	DWR_NA0002_02_s _ 2013_52				
Action/Comments					
Landscaping					
Inspector Comments: Remove cactus from landside slope.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	5.79	Rating **	M	Issue No.	79
LM End	5.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.172940 °	38.172940 °
				-121.653700 °	-121.653700 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:12778 DS_ID:21912 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned. Erosion on WS slope at location where pipe should be. FIELD_STRUCT_DESC: 12-inch pipe through levee 13.0 feet below crown. Pump and gate valve in pumphouse at landside toe. 1.5-inch electrical conduit along pipe at same location. 42-inch concrete stand pipe at LS toe. Concrete standpipe at landside toe. FS Date: 05/02/2013					

LM Start	5.80	Rating **	A/W	Issue No.	13
LM End	6.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.173130 °	38.174559 °
				-121.654285 °	-121.659867 °
DWR ID	DWR_NA0002_02_s_2012_13				

Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_NA0002_63_13_20150309_00014.jpg



Looking southeast at compliant vegetation on landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	6.22	Rating **	M	Issue No.	80
LM End	6.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.174308 °	38.174308 °
				-121.661105 °	-121.661105 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12779					
DS_ID:21913					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Unable to locate due to excessive vegetation.					
FIELD_STRUCT_DESC: *Abandoned* 8-inch pipe through levee at low elevation.					
FS Date: 05/02/2013					

No Photos

LM Start	6.23	Rating **	M	Issue No.	110
LM End	6.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.174182 °	38.174182 °
				-121.661633 °	-121.661633 °
DWR ID	DWR_NA0002_02_s_2015_110				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	6.27	Rating **	U	Issue No.	50
LM End	6.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.173922 °	38.173922 °
				-121.662272 °	-121.662272 °
DWR ID	DWR_NA0002_02_s_2013_50				
Action/Comments					
Landscaping					

Photo 1 of 2 : SP_2015_NA0002_63_50_20150309_00048.jpg



Looking south at dense landscaping on landward slope.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	6.27	Rating **	U	Issue No.	50 (cont)
LM End	6.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.173922 °	38.173922 °
				-121.662272 °	-121.662272 °
DWR ID	DWR_NA0002_02_s _ 2013_50				
Action/Comments					
Landscaping					

Photo 2 of 2 : SP_2015_NA0002_63_50_20150309_00049.jpg



Looking north at dense landscaping on landward slope.

LM Start	6.36	Rating **	M	Issue No.	14
LM End	6.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.173406 °	38.173406 °
				-121.663815 °	-121.663815 °
DWR ID	DWR_NA0002_02_s _ 2012_14				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	6.80	Rating **	U	Issue No.	42
LM End	6.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.169008 °	38.169008 °
				-121.669420 °	-121.669420 °
DWR ID	DWR_NA0002_02_s _ 2012_42				
Action/Comments					
Fence					

Photo 1 of 1 : SP_2015_NA0002_63_42_20150309_00041.jpg



Brick wall on landside shoulder at LM 6.82.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	6.95	Rating **	M	Issue No.	111
LM End	6.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.167003 °	38.167003 °
				-121.670228 °	-121.670228 °
DWR ID	DWR_NA0002_02_s_2015_111				
Action/Comments					
Tree or limb					
Inspector Comments: Downed tree limbs on landward slope.					

No Photos

LM Start	6.98	Rating **	M	Issue No.	20
LM End	7.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.166583 °	38.165794 °
				-121.670684 °	-121.671014 °
DWR ID	DWR_NA0002_02_f_2014_20				
Action/Comments					
Inspector Comments: 2011 - Large section of bank slumped off. 2013: No observed changes. [2013 Site ID: SAC_13-6_L]					

Photo 1 of 1 : SP_2015_NA0002_63_20_20150309_00020.jpg



USACE 2013 Photo #1

LM Start	7.04	Rating **	U	Issue No.	81
LM End	7.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.165949 °	38.165949 °
				-121.670638 °	-121.670638 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16011 DS_ID:21916 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe open on WS. FIELD_STRUCT_DESC: *Abandoned* 8-inch pipe through levee 8.7 feet below crown. Pipe measures 8-inch Inside diameter and 10-inch outside diameter. 5'X5' Concrete distribution box on landside toe. Originally included in the 1959 O&M manual. FS Date: 05/02/2013					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	7.47	Rating **	M	Issue No.	82
LM End	7.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.160387 °	38.160387 °
				-121.673972 °	-121.673972 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12814 DS_ID:21918 EP_NO: 11293 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion or sinkhole on WS shoulder. Does not appear to be an immediate threat. FIELD_STRUCT_DESC: 2 of 2: 16-inch pipe through levee 7.1 feet below crown. Pump on the landward slope. Service pole on the landward slope. 72-inch Concrete standpipe at toe of landward slope (ABO No. 11293, 1975). Originally included in the 1959 O&M manual. FS Date: 05/02/2013					

No Photos

LM Start	7.51	Rating **	M	Issue No.	83
LM End	7.51	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.159940 °	38.159940 °
				-121.674430 °	-121.674430 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12817					
DS_ID:21920					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe should be abandoned properly.					
FIELD_STRUCT_DESC: 3-inch pipe through levee 7.7 feet below crown. Inactive service pole on the landward slope.					
FS Date: 05/02/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	7.60	Rating **	M	Issue No.	84
LM End	7.60	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.158990 °	38.158990 °
				-121.675374 °	-121.675374 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:40795 DS_ID:21922 EP_NO: 1663 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole over pipe on WS berm that may indicate a leak or other problem. Pipe should be inspected and hole over pipe backfilled. FIELD_STRUCT_DESC: 14-inch pipe through levee 4.4 feet below crown. A 12-inch pipe is sleeved through the 14-inch and then a 6-inch pipe is sleeved through the 12-inch. Siphon breaker in 24-inch CMP standpipe on LS shoulder. 48-inch diameter concrete standpipe on LS toe. (Permit No. 1663,15429 1959). FS Date: 05/02/2013					

No Photos

LM Start	7.71	Rating **	M	Issue No.	105
LM End	7.71	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.157841 °	38.157841 °
				-121.677510 °	-121.677510 °
DWR ID	DWR_NA0002_02_f_2014_105				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limbs on waterward shoulder.					

Photo 1 of 1 : SP_2015_NA0002_63_105_20150309_00062.jpg



Looking southwest at tree limbs on waterward shoulder.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	7.80	Rating **	M	Issue No.	106
LM End	7.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.157007 °	38.157007 °
				-121.678695 °	-121.678695 °
DWR ID	DWR_NA0002_02_f_2014_106				
Action/Comments					
Tree or limb					
Inspector Comments: Broken tree branch on landward shoulder.					

Photo 1 of 1 : SP_2015_NA0002_63_106_20150309_00063.jpg



Looking southeast at broken tree limb on landward shoulder.

LM Start	7.95	Rating **	M	Issue No.	85
LM End	7.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.155494 °	38.155494 °
				-121.679988 °	-121.679988 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12869 DS_ID:21925 EP_NO: 2795 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between PVC pipe and 12-inch steel pipe has not been sealed. FIELD_STRUCT_DESC: 20-inch pipe through the levee 3 feet below the crown. 8-inch PVC pipe sleeved through a 12-inch pipe that is sleeved through the 20-inch. Annular space grouted between two metal pipes. Pump and butterfly valve in pumphouse on the water ward slope. 36-inch concrete standpipe and filters on LS toe.(Permit No. 2795,1959). FS Date: 05/03/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	8.17	Rating **	M	Issue No.	86
LM End	8.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.152550 °	38.152550 °
				-121.681560 °	-121.681560 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16143 DS_ID:21926 EP_NO: 8661 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dip in crown over alignment of pipe. Good candidate for video inspection. FIELD_STRUCT_DESC: 8-inch pipe through levee 3.7 feet below crown. Pump in pump house on the landward slope. Service pole and 30-inch concrete standpipe at the landward toe (ABO No. 8661, 1972). Originally included in the 1959 O&M. FS Date: 05/03/2013					

No Photos

LM Start	8.18	Rating **	C	Issue No.	103
LM End	8.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.152089 °	38.152089 °
				-121.681404 °	-121.681404 °
DWR ID	DWR_NA0002_02_s_2014_103				
Action/Comments					
Pipe					
Inspector Comments: Discarded steel pipe on landward slope.					

No Photos

LM Start	8.20	Rating **	M	Issue No.	19
LM End	8.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.151867 °	38.148711 °
				-121.682201 °	-121.682790 °
DWR ID	DWR_NA0002_02_f_2014_19				
Action/Comments					
Inspector Comments: 2010 - Small inlet area behind a man-built spit. Bank is slumping and could possibly be fixed with maintenance. 2011 - Site continues to worsen. 2013: No observed changes. [2013 Site ID: SAC_12-1_L]					

Photo 1 of 1 : SP_2015_NA0002_63_19_20150309_00019.jpg



USACE 2013 Photo #1

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	8.32	Rating **	M	Issue No.	44
LM End	8.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.150112 °	38.144977 °
				-121.682305 °	-121.683345 °
DWR ID	DWR_NA0002_02_s_2012_44				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_NA0002_63_44_20150309_00042.jpg



Looking southeast at trees on landside shoulder and slope.

LM Start	8.40	Rating **	M	Issue No.	57
LM End	8.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.149000 °	38.149000 °
				-121.682479 °	-121.682479 °
DWR ID	DWR_NA0002_02_f_2013_57				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limbs on waterward slope.					

No Photos

LM Start	8.44	Rating **	M	Issue No.	33
LM End	8.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.148323 °	38.148323 °
				-121.682548 °	-121.682548 °
DWR ID	DWR_NA0002_02_s_2012_33				
Action/Comments					
Tree or limb					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	8.58	Rating **	M	Issue No.	87
LM End	8.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146784 °	38.146784 °
				-121.682780 °	-121.682780 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12886 DS_ID:21929 EP_NO: 842 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine disposition of pipe. FIELD_STRUCT_DESC: 12-inch gas pipe through levee 3-feet below the crown Gasline marker/vent on WS shoulder. (Permit No. 842, 1940). FS Date: 05/03/2013					

No Photos

LM Start	8.65	Rating **	U	Issue No.	48
LM End	8.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.145368 °	38.142430 °
				-121.683072 °	-121.683978 °
DWR ID	DWR_NA0002_02_s_ 2013_48				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 2 : SP_2015_NA0002_63_48_20150309_00046.jpg



Looking south at trees on landward slope.

LM Start	8.65	Rating **	U	Issue No.	48 (cont)
LM End	8.66	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_NA0002_63_48_20150309_00047.jpg



Looking north at dense trees on landward slope and toe.

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	8.90	Rating **	A/W	Issue No.	47
LM End	8.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.141928 °	38.141928 °
				-121.684308 °	-121.684308 °
DWR ID	DWR_NA0002_02_s_2013_47				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	8.94	Rating **	U	Issue No.	18
LM End	9.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.141399 °	38.138158 °
				-121.685346 °	-121.686531 °
DWR ID	DWR_NA0002_02_f_2014_18				
Action/Comments					
Inspector Comments: 2008 - Erosion causing vertical bank at the highway on top of levee. The whole bank along the highway should be repaired. 2009 - Minimal new erosion. 2011 - Bank continues to slowly erode. 2012 - Upgrade to critical, new erosion since lat year and steeper slopes in sections. 2013: No observed changes. [2013 Site ID: SAC_11-2_L]					

Photo 1 of 1 : SP_2015_NA0002_63_18_20150309_00018.jpg



USACE 2013 Photo #1

LM Start	9.05	Rating **	M	Issue No.	88
LM End	9.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.140391 °	38.140391 °
				-121.685266 °	-121.685266 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12928 DS_ID:21963 EP_NO: 16014 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to determine disposition of utility. FIELD_STRUCT_DESC: 2 of 2: Electrical conduit through levee 2.0 feet below crown. Pump on waterward side. Concrete riser pipe on landward side (Permit No. 16014, 1995). FS Date: 05/03/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	9.05	Rating **	M	Issue No.	89
LM End	9.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.140391 °	38.140391 °
				-121.685266 °	-121.685266 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:12927					
DS_ID:21941					
EP_NO: 16014					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Need to determine disposition of pipe.					
FIELD_STRUCT_DESC: 1 of 2: 12-inch pipe through levee 2.0 feet					
below crown. Pump on waterward side. Concrete riser pipe on					
landward side (Permit No. 16014, 1995).					
FS Date: 05/03/2013					

No Photos

LM Start	9.39	Rating **	M	Issue No.	90
LM End	9.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.135584 °	38.135584 °
				-121.686108 °	-121.686108 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:40528					
DS_ID:21931					
EP_NO: 16011					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Annular space between pipes should be grouted. IF abandoned, these pipes should be abandoned properly.					
FIELD_STRUCT_DESC: 18-inch corrugated metal conduit pipe through the levee 4.5 feet below the crown. Inactive 12-inch pipe sleeved through 18-inch. Both ends open. Siphon breaker and air valve in 24-inch CMP riser on LS shoulder. 9'X5' concrete box with slide gate off LS toe. Originally included in the 1959 O&M manual.					
FS Date: 05/03/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	9.39	Rating **	A/W	Issue No.	15
LM End	9.39	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.135106 °	38.135106 °
				-121.686065 °	-121.686065 °
DWR ID	DWR_NA0002_02_s _ 2012_15				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	9.53	Rating **	M	Issue No.	91
LM End	9.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.133512 °	38.133512 °
				-121.685948 °	-121.685948 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16146 DS_ID:23142 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine Permit No. for this crossing. FIELD_STRUCT_DESC: Gasline markers on LS toe and WS shoulder. FS Date: 05/03/2013					

No Photos

LM Start	9.57	Rating **	M	Issue No.	16
LM End	9.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132499 °	38.130537 °
				-121.686135 °	-121.686737 °
DWR ID	DWR_NA0002_02_s _ 2012_16				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : SP_2015_NA0002_63_16_20150309_00015.jpg



Looking south at dense vegetation on waterward shoulder and slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	9.57	Rating **	M	Issue No.	16 (cont)	
LM End	9.71	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.132499 °		38.130537 °
				-121.686135 °		-121.686737 °
DWR ID	DWR_NA0002_02_s_2012_16					
Action/Comments						
Remove the wild growth other than native grasses from the levee slopes.						

Photo 2 of 2 : SP_2015_NA0002_63_16_20150309_00016.jpg



Looking west at dense vegetation on waterward shoulder and slope.

LM Start	9.78	Rating **	M	Issue No.	17
LM End	9.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.129722 °	38.127672 °
				-121.687468 °	-121.688646 °
DWR ID	DWR_NA0002_02_f_2014_17				
Action/Comments					
Inspector Comments: 2004 - Wave wash pockets approximately 100 ft long with new full bank rock between the pockets. 2005 - Spot repairs, but toe is still eroding in several places. 2006 - Low vertical bank along roadway. 2007 - A PL 84-99 repair was constructed, it cover the majority of the site with the exception of the upstream 150 to 200 ft and the downstream 250 ft, therefore it is being kept in the inventory. 2009 - Minimal new erosion. 2010 - Outboard berm looks good, but the banks are still very steep. 2011 - While the outboard berm is protecting against wave wash, bank still has slumping issues. 2013: No observed changes. [2013 Site ID: SAC_10-8_L]					

Photo 1 of 1 : SP_2015_NA0002_63_17_20150309_00017.jpg



USACE 2013 Photo #1

LM Start	10.26	Rating **	M	Issue No.	107
LM End	10.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.123119 °	38.123119 °
				-121.690488 °	-121.690488 °
DWR ID	DWR_NA0002_02_f_2014_107				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

No Photos

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