

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 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 2018 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	4/5/2018 - 4/5/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
Inspector Comment					
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				
Comment Code					
Inspector Comment					
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				
Comment Code					
Inspector Comment					
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 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	0.02	Rating **	M	Issue No.	43
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186345 °	38.163432 °
				-121.562957 °	-121.584426 °
DWR ID	DWR_NA0002_01_f_2017_43				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_43_20180305_00031.jpg



Looking northeast at the landside slope.

LM Start	0.02	Rating **	M	Issue No.	53
LM End	2.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186344 °	38.162909 °
				-121.562959 °	-121.584706 °
DWR ID	DWR_NA0002_01_s_2018_53				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_53_20180409_00107.jpg



Waterside vegetation should be reduced to 20' from crown.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	0.61	Rating **	M	Issue No.	79
LM End	0.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.182213 °	38.182213 °
				-121.572357 °	-121.572357 °
DWR ID					
Comment Code					
Inspector Comment					
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 iron wastewater pipe through the levee, 2 feet below the crown. Gas well drain. (Permit No. 2015, 1954 - Brazos Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 5/16/2013					

Photo 1 of 3 : UCIP_SP_2018_13560_22173.jpg



Pipe in grass on WS slope.

LM Start	0.61	Rating **	M	Issue No.	79 (cont)
LM End	0.61	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_13560_22172.jpg



Pipe in grass on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	0.61	Rating **	M	Issue No.	79 (cont)	
LM End	0.61	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.182213 °	38.182213 °	
				-121.572357 °	-121.572357 °	
DWR ID						
Comment Code						
Inspector Comment						
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 iron wastewater pipe through the levee, 2 feet below the crown. Gas well drain. (Permit No. 2015, 1954 - Brazos Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 5/16/2013						

Photo 3 of 3 : UCIP_SP_2018_13560_22171.jpg



Pipe on LS slope.

LM Start	0.75	Rating **	M	Issue No.	80
LM End	0.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.182212 °	38.182212 °
				-121.574987 °	-121.574987 °
DWR ID					
Comment Code					
Inspector Comment					
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 steel irrigation pipe through the levee, 3.2 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box located LS of the toe. 2-inch primer valve. (Automatic Board Order (ABO) issued as Permit No. 11232, 1975 - Mario Campi). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 279+70) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 1 : UCIP_SP_2018_15984_26969.jpg



Concrete distribution box on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	1.22	Rating **	M	Issue No.	81
LM End	1.22	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.177669 °	38.177669 °
				-121.580222 °	-121.580222 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe through the levee, 4.3 feet below the crown. Pump in pump house on the waterside (WS) berm. 60-inch diameter concrete standpipe on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11234, 1975 - Anthony and John Correia). [Additional Reference(s): USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 255+00) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 3 : UCIP_SP_2018_13558_22169.jpg



Concrete standpipe on LS toe.

LM Start	1.22	Rating **	M	Issue No.	81 (cont)
LM End	1.22	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_13558_22168.jpg



Concrete standpipe on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	1.22	Rating **	M	Issue No.	81 (cont)	
LM End	1.22	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.177669 °	38.177669 °	
				-121.580222 °	-121.580222 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe through the						
levee, 4.3 feet below the crown. Pump in pump house on the waterside						
(WS) berm. 60-inch diameter concrete standpipe on the landside (LS)						
toe. (Automatic Board Order (ABO) issued as Permit No. 11234, 1975 -						
Anthony and John Correia). [Additional Reference(s): USACE						
Sacramento O&M Manual 103, June 1954, (Station ""R"" 255+00)						
Drawing No. 50-4-2631].						
FS Date: 5/16/2013						

Photo 3 of 3 : UCIP_SP_2018_13558_22167.jpg



Pumphouse on WS slope.

LM Start	1.52	Rating **	M	Issue No.	56
LM End	1.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.173475 °	38.173475 °
				-121.580767 °	-121.580767 °
DWR ID	DWR_NA0002_01_s_2018_56				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Scallop erosion, 10 ft long. This scallop has received riprap in the past along with adjacent scallops. However this scallop has slumped again since then leaving exposed vertical soil above the slumped riprap. Should be repaired.					

Photo 1 of 2 : SP_2018_NA0002_62_56_20180409_00108.jpg



Erosion slump in area of previous repair. LM 1.52

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	1.52	Rating **	M	Issue No.	56 (cont)	
LM End	1.52	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.173475 °	38.173475 °	
				-121.580767 °	-121.580767 °	
DWR ID	DWR_NA0002_01_s_2018_56					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Scallop erosion, 10 ft long. This scallop has received riprap in the past along with adjacent scallops. However this scallop has slumped again since then leaving exposed vertical soil above the slumped riprap. Should be repaired.						

Photo 2 of 2 : SP_2018_NA0002_62_56_20180410_00114.jpg



Erosion slump in area of previous repair. LM 1.52

LM Start	1.54	Rating **	M	Issue No.	82
LM End	1.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.173254 °	38.173254 °
				-121.580718 °	-121.580718 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe through the levee, 4.6 feet below the crown. Pump and valve on the waterside (WS) slope. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) shoulder. 7-foot by 10-foot concrete distribution box on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11252, 1975 - Hubert and Palmyra Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 237+13) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 3 : UCIP_SP_2018_13554_22164.jpg



7X10-foot concrete distribution box on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	1.54	Rating **	M	Issue No.	82 (cont)
LM End	1.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.173254 °	38.173254 °
				-121.580718 °	-121.580718 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe through the levee, 4.6 feet below the crown. Pump and valve on the waterside (WS) slope. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) shoulder. 7-foot by 10-foot concrete distribution box on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11252, 1975 - Hubert and Palmyra Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 237+13) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 2 of 3 : UCIP_SP_2018_13554_22163.jpg



Pipe shows excessive rust at inlet to distribution box on LS toe.

LM Start	1.54	Rating **	M	Issue No.	82 (cont)
LM End	1.54	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_13554_22162.jpg



CMP riser on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	1.56	Rating **	U	Issue No.	25
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172869 °	38.172869 °
				-121.580681 °	-121.580681 °
DWR ID	DWR_NA0002_01_s_2012_25				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree blocking landside toe.					

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

Photo 1 of 3 : SP_2018_NA0002_62_25_20180305_00021.jpg



Looking southwest at the landside slope.

Photo 2 of 3 : SP_2018_NA0002_62_25_20180305_00022.jpg



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

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

Photo 3 of 3 : SP_2018_NA0002_62_25_20180305_00023.jpg



Looking west at untrimmed tree at landward toe. (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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	1.79	Rating **	U	Issue No.	74
LM End	1.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.169625 °	38.169625 °
				-121.581542 °	-121.581542 °
DWR ID	DWR_NA0002_01_f_2016_74				
Comment Code					
RA : Ramp					
Inspector Comment					
Landowner has created a gravel-covered ramp up the side of the levee. While it is not causing erosion, it is not authorized and should be removed and access ceased.					

LM Start	1.79	Rating **	U	Issue No.	74 (cont)
LM End	1.79	Issue Type +	En	Location *	LS

Photo 1 of 3 : SP_2018_NA0002_62_74_20180305_00055.jpg



Looking west at slope damage on waterward slope.

Photo 2 of 3 : SP_2018_NA0002_62_74_20180305_00056.jpg



Looking south at slope damage on waterward slope.

LM Start	1.79	Rating **	U	Issue No.	74 (cont)
LM End	1.79	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP_2018_NA0002_62_74_20180305_00057.jpg



Looking north at slope damage 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.17	Rating **	M	Issue No.	83
LM End	2.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164491 °	38.164491 °
				-121.583943 °	-121.583943 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:52615
DS_ID:21758
EP_NO: 11252
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 04/06/2017 Landowner has installed a temporary pipe and removed old pipe. Photos and update courtesy of DWR Inspector, Richard Willoughby.05/16/2013 Pipe rusted through at inlet to box. Good candidate for video inspection. (G. Wylie - DWR)
FIELD_STRUCT_DESC: *REMOVED* 3 of 3: 12-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on bank. Switch box on berm, conduit through levee. Siphon breaker in 24-inch CMP riser on landward slope. Power pole and electrical panel at landward toe (ABO No. 11252, 1975). 7'X10' concrete distribution box on LS toe. As per Richard Willoughby, FPIIB Inspector, landowner has installed a temporary 12-inch PVC pipe on the WS and removed this pipe. New pipe forthcoming. Originally included in the 1954 O&M manual.
FS Date: 4/6/2017

LM Start	2.17	Rating **	M	Issue No.	83 (cont)
LM End	2.17	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_SP_2018_52615_77544.jpg



A view of disconnected temporary pipe on waterside. Photo courtesy of DWR inspector Keith E Millard.

Photo 2 of 2 : UCIP_SP_2018_52615_77545.jpg



A view of disconnected temporary pipe on landside. Photo courtesy of DWR inspector Keith E Millard.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.25	Rating **	M	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Vegetation is starting to impede patrol road.					

Photo 1 of 4 : SP_2018_NA0002_62_36_20180305_00027.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_2018_NA0002_62_36_20180305_00028.jpg



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

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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					
Comment Code						
V6 : Landscaping						
Inspector Comment						
Vegetation is starting to impede patrol road.						

Photo 3 of 4 : SP_2018_NA0002_62_36_20180305_00029.jpg



Looking north at dense vegetation on waterside slope.

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

Photo 4 of 4 : SP_2018_NA0002_62_36_20180305_00030.jpg



Looking west at ground cover on landside slope.

LM Start	2.30	Rating **	U	Issue No.	58
LM End	2.30	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162806 °	38.162806 °
				-121.584768 °	-121.584768 °
DWR ID	DWR_NA0002_01_s_2018_58				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove oleanders.					

Photo 1 of 1 : SP_2018_NA0002_62_58_20180409_00111.jpg



Remove or thin waterside oleanders.

*** 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.30	Rating **	M	Issue No.	3
LM End	2.30	Issue Type +	En	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				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 3 : SP_2018_NA0002_62_3_20180305_00003.jpg



Looking east at firewood on waterside shoulder.

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

Photo 2 of 3 : SP_2018_NA0002_62_3_20180305_00004.jpg



Looking southeast at firewood on waterside shoulder.

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

Photo 3 of 3 : SP_2018_NA0002_62_3_20180305_00005.jpg



Looking south at firewood on waterside shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Landowner installed sprinklers along waterside slope without permit.					

Photo 1 of 1 : SP_2018_NA0002_62_50_20180305_00036.jpg



Looking east at sprinklers on waterward slope.

LM Start	2.34	Rating **	M	Issue No.	84
LM End	2.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162332 °	38.162332 °
				-121.585032 °	-121.585032 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe through the levee, 3 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 196+99) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 2 : UCIP_SP_2018_16123_27221.jpg



Pipe visible in water at WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.34	Rating **	M	Issue No.	84 (cont)	
LM End	2.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.162332 °	38.162332 °	
				-121.585032 °	-121.585032 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe through the levee, 3 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 196+99) Drawing No. 50-4-2631]. FS Date: 5/16/2013						

Photo 2 of 2 : UCIP_SP_2018_16123_27220.jpg



Pipe visible in water at WS toe.

LM Start	2.34	Rating **	M	Issue No.	72
LM End	2.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162242 °	38.162242 °
				-121.585058 °	-121.585058 °
DWR ID	DWR_NA0002_01_f_2016_72				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent colony exists under raised Tyler Island Bridge approach. Rodents should be exterminated and their holes backfilled.					

No Photos

LM Start	2.41	Rating **	U	Issue No.	28
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.161301 °	38.160281 °
				-121.585560 °	-121.586007 °
DWR ID	DWR_NA0002_01_s _ 2013_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation and wild roses on landside slope and toe.					

Photo 1 of 2 : SP_2018_NA0002_62_28_20180305_00024.jpg



Look west at dense vegetation at landward toe. (Spring 2016)

LM Start	2.41	Rating **	U	Issue No.	28 (cont)
LM End	2.49	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_NA0002_62_28_20180305_00025.jpg



Look west at dense vegetation at landward toe. (Fall 2016)

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.41	Rating **	M	Issue No.	59
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.161300 °	38.152291 °
				-121.585560 °	-121.591575 °
DWR ID	DWR_NA0002_01_s _ 2018_59				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.49	Rating **	M	Issue No.	64
LM End	2.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.160161 °	38.157854 °
				-121.586074 °	-121.588860 °
DWR ID	DWR_NA0002_01_s _ 2018_64				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.50	Rating **	M	Issue No.	85	
LM End	2.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.160147 °		38.160147 °
				-121.586088 °		-121.586088 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe through the levee, 3.4 feet below the crown. 6-inch pump on the waterside (WS). 36-inch concrete standpipe on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 188+39) Drawing No. 50-4-2631].						
FS Date: 5/16/2013						

Photo 1 of 3 : UCIP_SP_2018_13545_22145.jpg



Pipe and pump on WS slope.

LM Start	2.50	Rating **	M	Issue No.	85 (cont)
LM End	2.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_13545_22144.jpg



Standpipe covered in brush on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.54	Rating **	M	Issue No.	86 (cont)
LM End	2.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.159569 °	38.159569 °
				-121.586340 °	-121.586340 °
DWR ID					
Comment Code					
Inspector Comment					
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. Possible sign on the LS toe. (Permit No. 17250, 2001 - Lodi Gas Storage, LLC). FS Date: 5/16/2013					

Photo 2 of 2 : UCIP_SP_2018_13525_22127.jpg



Gasline marker on LS toe.

LM Start	2.58	Rating **	M	Issue No.	52
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.158999 °	38.158999 °
				-121.586621 °	-121.586621 °
DWR ID	DWR_NA0002_01_f_2017_29				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.60	Rating **	M	Issue No.	44
LM End	2.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.158684 °	38.158684 °
				-121.586787 °	-121.586787 °
DWR ID	DWR_NA0002_01_f_2017_44				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Pothole in crown at pipe crossing					

No Photos

LM Start	2.60	Rating **	U	Issue No.	87	
LM End	2.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.158683 °	38.158683 °	
				-121.586784 °	-121.586784 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51299 DS_ID:21765 EP_NO: 11238 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 Unable to access WS due to heavy vegetation--assume WS remains the same or erosion has progressed but not visible from levee crown. Pipe marker found on LS slope next to 12-inch irrigation pipe indicating high pressure unodorized natural gas pipeline however, unable to confirm if line is present or if it is parallel to levee or if it goes through levee. (O. Magana - DWR UCIP)05/16/2013 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. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 1 of 5: 12-inch irrigation steel pipe through levee 4 feet below crown. Siphon breaker is located on landside (LS) shoulder. A 7-foot by 9-foot concrete distribution box is located on LS toe. (12-inch pipe authorized under Permit No. 18549, 2009 - Stockton JACS LLC; previous 12-inch pipe was replaced and authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station "R" 182+63), Drawing No. 50-4-2631, 50-4-2634]. FS Date: 10/24/2016						

Photo 1 of 3 : UCIP_SP_2018_51299_22124.jpg



Pipe visible on LS shoulder with concrete distribution box on LS toe.
Gasline marker placed at pipe.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.60	Rating **	U	Issue No.	87 (cont)
LM End	2.60	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.158683 °	38.158683 °
				-121.586784 °	-121.586784 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51299
DS_ID:21765
EP_NO: 11238
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/24/2016 Unable to access WS due to heavy vegetation--assume WS remains the same or erosion has progressed but not visible from levee crown. Pipe marker found on LS slope next to 12-inch irrigation pipe indicating high pressure unodorized natural gas pipeline however, unable to confirm if line is present or if it is parallel to levee or if it goes through levee. (O. Magana - DWR UCIP)05/16/2013 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. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 1 of 5: 12-inch irrigation steel pipe through levee 4 feet below crown. Siphon breaker is located on landside (LS) shoulder. A 7-foot by 9-foot concrete distribution box is located on LS toe. (12-inch pipe authorized under Permit No. 18549, 2009 - Stockton JACS LLC; previous 12-inch pipe was replaced and authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station "R" 182+63), Drawing No. 50-4-2631, 50-4-2634].
FS Date: 10/24/2016

LM Start	2.60	Rating **	U	Issue No.	87 (cont)
LM End	2.60	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51299_22123.jpg



Concrete distribution box on LS toe.

Photo 3 of 3 : UCIP_SP_2018_51299_22122.jpg



Subsidence along pipe alignment at crown.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	2.76	Rating **	U	Issue No.	71
LM End	2.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.157860 °	38.157925 °
				-121.588920 °	-121.589473 °
DWR ID	DWR_NA0002_01_f_2016_71				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense wildroses on landside slope.					

Photo 1 of 1 : SP_2018_NA0002_62_71_20180305_00054.jpg



Looking west at dense vines at landward toe.

LM Start	2.79	Rating **	M	Issue No.	69
LM End	4.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.157925 °	38.146984 °
				-121.589473 °	-121.601028 °
DWR ID	DWR_NA0002_01_s_2018_69				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.01	Rating **	M	Issue No.	88	
LM End	3.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.156379 °	38.156379 °	
				-121.592527 °	-121.592527 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41561 DS_ID:21766 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel irrigation pipe through the levee, at an unknown depth. 5-foot diameter concrete riser unit on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/16/2013						

Photo 1 of 2 : UCIP_SP_2018_41561_27229.jpg



5-foot diameter concrete riser on LS toe, but no pipe visible.

LM Start	3.01	Rating **	M	Issue No.	88 (cont)
LM End	3.01	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_41561_27228.jpg



5-foot diameter concrete riser on LS toe, but no pipe visible.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.29	Rating **	M	Issue No.	45
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.152510 °	38.152510 °
				-121.591748 °	-121.591748 °
DWR ID	DWR_NA0002_01_f_2017_45				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limb on waterside slope.					

Photo 1 of 1 : SP_2018_NA0002_62_45_20180305_00032.jpg



Looking east at the waterside slope.

LM Start	3.37	Rating **	U	Issue No.	5
LM End	3.37	Issue Type +	En	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				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove cactus from waterside slope.					

Photo 1 of 2 : SP_2018_NA0002_62_5_20180305_00006.jpg



Looking south at cactus on waterward slope near Oxbow Habor. (Spring 2016)

LM Start	3.37	Rating **	U	Issue No.	5 (cont)
LM End	3.37	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2018_NA0002_62_5_20180305_00007.jpg



Looking east at cactus on waterward slope near Oxbow Habor. (Fall 2016)

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.38	Rating **	A/W	Issue No.	67
LM End	3.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.151430 °	38.151390 °
				-121.592085 °	-121.592517 °
DWR ID	DWR_NA0002_01_s_2017_67				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Appears to be beginning of a landside slump. LMA's Engineer (DCC) is monitoring site for movement.					

LM Start	3.38	Rating **	A/W	Issue No.	67 (cont)
LM End	3.40	Issue Type +	Ma	Location *	CR

Photo 1 of 3 : SP_2018_NA0002_62_67_20180305_00049.jpg



Looking south at sloughing on landward shoulder.

Photo 2 of 3 : SP_2018_NA0002_62_67_20180305_00050.jpg



Looking east at possible sloughing on landward shoulder.

LM Start	3.38	Rating **	A/W	Issue No.	67 (cont)
LM End	3.40	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : SP_2018_NA0002_62_67_20180305_00051.jpg



Looking at downstream corner of slough.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.74	Rating **	M	Issue No.	46
LM End	3.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.150841 °	38.150841 °
				-121.598161 °	-121.598161 °
DWR ID	DWR_NA0002_01_f_2017_46				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_46_20180305_00033.jpg



Looking southwest at the landside slope.

LM Start	3.87	Rating **	U	Issue No.	57
LM End	3.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.149217 °	38.149217 °
				-121.599389 °	-121.599389 °
DWR ID	DWR_NA0002_01_f_2015_57				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_57_20180305_00041.jpg



Looking west at untrimmed tree 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.92	Rating **	M	Issue No.	47
LM End	3.94	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148528 °	38.148284 °
				-121.599895 °	-121.600056 °
DWR ID	DWR_NA0002_01_f_2017_47				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

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				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 3 : SP_2018_NA0002_62_11_20180305_00008.jpg



Looking northeast at landscaping on landside slope.

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

Photo 2 of 3 : SP_2018_NA0002_62_11_20180305_00009.jpg



Looking south at bushes on landside 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 3 of 3 : SP_2018_NA0002_62_11_20180305_00010.jpg



Looking west at dense landscaping on landside slope.

LM Start	3.99	Rating **	A/W	Issue No.	89	
LM End	3.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.147677 °	38.147677 °	
				-121.600501 °	-121.600501 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51302 DS_ID:21772 EP_NO: 11248 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through levee, 3 feet below the crown. Siphon breaker is located on the waterside (WS) slope. Pump is located on the landside (LS). (24-inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11248, 1975 – Reclamation District No. 407) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, Drawing No. 50-4-2631, page 2631/2, (Station 107+76), 26-inch listed]. FS Date: 5/16/2013						

Photo 1 of 3 : UCIP_SP_2018_51302_22082.jpg



24-inch pipe and siphon breaker visible on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.99	Rating **	A/W	Issue No.	89 (cont)	
LM End	3.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.147677 °		38.147677 °
				-121.600501 °		-121.600501 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51302 DS_ID:21772 EP_NO: 11248 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through levee, 3 feet below the crown. Siphon breaker is located on the waterside (WS) slope. Pump is located on the landside (LS). (24-inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11248, 1975 – Reclamation District No. 407) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, Drawing No. 50-4-2631, page 2631/2, (Station 107+76), 26-inch listed]. FS Date: 5/16/2013						

LM Start	3.99	Rating **	A/W	Issue No.	89 (cont)
LM End	3.99	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51302_22081.jpg



Pipe visible on LS slope.

Photo 3 of 3 : UCIP_SP_2018_51302_22080.jpg



Pumping plant on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.99	Rating **	M	Issue No.	90	
LM End	3.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.147653 °	38.147653 °	
				-121.600491 °	-121.600491 °	
DWR ID						
Comment Code						
Inspector Comment						
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.						
Possible cavity collapse along pipe alignment on WS berm.						
FIELD_STRUCT_DESC: 2 of 2: 4-inch pipe through levee 4.0 feet						
below crown. Siphon breaker on waterward slope. Pump on landward						
side (ABO No. 11248, 1975).						
FS Date: 5/16/2013						

LM Start	3.99	Rating **	M	Issue No.	90 (cont)
LM End	3.99	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_13487_22053.jpg



Pipe visible between two large storm drain pipes on WS.

Photo 2 of 3 : UCIP_SP_2018_13487_22052.jpg



Possible indicator of internal pipe failure along pipe alignment as there appears to be a cavity collapse over the pipe on the WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.99	Rating **	M	Issue No.	90 (cont)	
LM End	3.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.147653 °	38.147653 °	
				-121.600491 °	-121.600491 °	
DWR ID						
Comment Code						
Inspector Comment						
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.						
Possible cavity collapse along pipe alignment on WS berm.						
FIELD_STRUCT_DESC: 2 of 2: 4-inch pipe through levee 4.0 feet						
below crown. Siphon breaker on waterward slope. Pump on landward						
side (ABO No. 11248, 1975).						
FS Date: 5/16/2013						

Photo 3 of 3 : UCIP_SP_2018_13487_22051.jpg



Pipe visible under walnut at LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	3.99	Rating **	U	Issue No.	91 (cont)	
LM End	3.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.147657 °		38.147657 °
				-121.600521 °		-121.600521 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51303 DS_ID:21773 EP_NO: 5534 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 Internal erosion visible on LS where pipe daylights. LS road shoulder appears to be failing. Large sink hole patched and is visible on road/crown. Evidence of burrow activity that appear to be about 6-inches in diameter with depths greater than 3 feet. Burrow holes are located on LS hinge point just upstream of pipe and 3 holes visible on WS. Need to contact owner to address issue and recommend to stop use of crossing to avoid further damage to levee. (O. Magana - DWR UCIP)05/16/2013 Pot holes over pipe may indicate internal failure. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 22-inch steel drainage pipe through the levee, 3 feet below the crown. Siphon breaker located on the waterside (WS) shoulder. Pump located on the landside (LS). (22-inch pipe authorized under Permit No. 5534, 1966 - Reclamation District No. 407, 22-inch pipe replaced 24-inch discharge pipe). [Additional Reference(s): DWR Levee Log, 2005, 24-inch pipe listed]. FS Date: 10/24/2016						

Photo 3 of 3 : UCIP_SP_2018_51303_22079.jpg



Pumping plant at channel on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.01	Rating **	M	Issue No.	92
LM End	4.01	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.147459 °	38.147459 °
				-121.600681 °	-121.600681 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51308
DS_ID:21774
EP_NO: 11238
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/24/2016 Unable to determine if WS primer pipe is leaking or if settling is occurring at pipe. Need to contact owner to determine when upgrades to WS were completed. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 10-inch irrigation steel pipe (12-inch referenced in ABO and O&M manual) through levee, 4 feet below crown. Siphon breaker is located on the landside (LS). 1.5-inch primer, 48-inch concrete standpipe on LS toe with slide gate. (12-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 – Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station 106+79), Drawing No. 50-4-2631, page 2631/2].
FS Date: 10/24/2016

LM Start	4.01	Rating **	M	Issue No.	92 (cont)
LM End	4.01	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_51308_22050.jpg



10-inch pipe visible on WS slope.

Photo 2 of 3 : UCIP_SP_2018_51308_22049.jpg



10-inch pipe visible on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.01	Rating **	M	Issue No.	92 (cont)	
LM End	4.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.147459 °	38.147459 °	
				-121.600681 °	-121.600681 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51308 DS_ID:21774 EP_NO: 11238 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/24/2016 Unable to determine if WS primer pipe is leaking or if settling is occurring at pipe. Need to contact owner to determine when upgrades to WS were completed. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 10-inch irrigation steel pipe (12-inch referenced in ABO and O&M manual) through levee, 4 feet below crown. Siphon breaker is located on the landside (LS). 1.5-inch primer, 48-inch concrete standpipe on LS toe with slide gate. (12-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 – Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station 106+79), Drawing No. 50-4-2631, page 2631/2]. FS Date: 10/24/2016						

Photo 3 of 3 : UCIP_SP_2018_51308_22048.jpg



Concrete standpipe with slide gate at LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.04	Rating **	U	Issue No.	93
LM End	4.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146985 °	38.146985 °
				-121.601019 °	-121.601019 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51345
DS_ID:21775
EP_NO: 11238
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 12/30/2016 Left message with Ms. Cabral to inform her that we are working with LMA to find additional information about crossing. Spoke with Andy Giannini, LMA representative, regarding the UCIP report and Mr. Giannini believes the hole is due to ground squirrel activity. According to Mr. Giannini, the issue with ground squirrel has been resolved and the hole filled. Records indicate pipe was installed in the 1950s and authorized under Permit No. 11238 in 1975. This pipe could be about 62 years old. Crossing remains Urgent due to the uncertainty of pipe integrity through levee. Recommend having owner complete an internal inspection of the pipe through the levee to determine integrity of pipe. (O. Magana - DWR UCIP)12/28/2016
Contacted Andy Giannini, LMA representative, and provided him with UCIP report to review. (O. Magana - DWR UCIP)12/27/2016
Contacted Rebecca Cabral, property sales agent from Century 21 Farm & Ranch M&M and Associates, at 1-707-374-3900 to inquire about the property owner for this area. Mrs. Cabral was unaware of pipe through levee and has requested photos to share with client. She was not able to provide me with the current property owner information but mentioned that she will contact me next week (week ending Jan 6, 2017). (O. Magana - DWR UCIP)10/24/2016 Section of cover is still missing. Potential pipe failure through levee. Sink hole is present on LS shoulder. Need to contact owner to stop use of pipe to avoid further damage to levee. Recommend internal inspection of pipe to determine integrity of pipe wall. (O. Magana - DWR UCIP)05/08/2013 Missing cover on concrete sump is an immediate hazard and should be repaired. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. 5-foot by 5-foot concrete spillbox located on the landside (LS) slope. (8-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station "R" 105+02) Drawing No. 50-4-2631, Page 2631/2].
FS Date: 10/24/2016

Photo 1 of 3 : UCIP_SP_2018_51345_22042.jpg



Pipe and concrete sump on LS.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.04	Rating **	U	Issue No.	93 (cont)
LM End	4.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146985 °	38.146985 °
				-121.601019 °	-121.601019 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51345
DS_ID:21775
EP_NO: 11238
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 12/30/2016 Left message with Ms. Cabral to inform her that we are working with LMA to find additional information about crossing. Spoke with Andy Giannini, LMA representative, regarding the UCIP report and Mr. Giannini believes the hole is due to ground squirrel activity. According to Mr. Giannini, the issue with ground squirrel has been resolved and the hole filled. Records indicate pipe was installed in the 1950s and authorized under Permit No. 11238 in 1975. This pipe could be about 62 years old. Crossing remains Urgent due to the uncertainty of pipe integrity through levee. Recommend having owner complete an internal inspection of the pipe through the levee to determine integrity of pipe. (O. Magana - DWR UCIP)12/28/2016
Contacted Andy Giannini, LMA representative, and provided him with UCIP report to review. (O. Magana - DWR UCIP)12/27/2016
Contacted Rebecca Cabral, property sales agent from Century 21 Farm & Ranch M&M and Associates, at 1-707-374-3900 to inquire about the property owner for this area. Mrs. Cabral was unaware of pipe through levee and has requested photos to share with client. She was not able to provide me with the current property owner information but mentioned that she will contact me next week (week ending Jan 6, 2017). (O. Magana - DWR UCIP)10/24/2016 Section of cover is still missing. Potential pipe failure through levee. Sink hole is present on LS shoulder. Need to contact owner to stop use of pipe to avoid further damage to levee. Recommend internal inspection of pipe to determine integrity of pipe wall. (O. Magana - DWR UCIP)05/08/2013 Missing cover on concrete sump is an immediate hazard and should be repaired. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. 5-foot by 5-foot concrete spillbox located on the landside (LS) slope. (8-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station "R" 105+02) Drawing No. 50-4-2631, Page 2631/2].
FS Date: 10/24/2016

Photo 2 of 3 : UCIP_SP_2018_51345_22041.jpg



Pipe visible at waters edge on WS 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 : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.04	Rating **	U	Issue No.	93 (cont)
LM End	4.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146985 °	38.146985 °
				-121.601019 °	-121.601019 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51345
DS_ID:21775
EP_NO: 11238
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 12/30/2016 Left message with Ms. Cabral to inform her that we are working with LMA to find additional information about crossing. Spoke with Andy Giannini, LMA representative, regarding the UCIP report and Mr. Giannini believes the hole is due to ground squirrel activity. According to Mr. Giannini, the issue with ground squirrel has been resolved and the hole filled. Records indicate pipe was installed in the 1950s and authorized under Permit No. 11238 in 1975. This pipe could be about 62 years old. Crossing remains Urgent due to the uncertainty of pipe integrity through levee. Recommend having owner complete an internal inspection of the pipe through the levee to determine integrity of pipe. (O. Magana - DWR UCIP)12/28/2016 Contacted Andy Giannini, LMA representative, and provided him with UCIP report to review. (O. Magana - DWR UCIP)12/27/2016 Contacted Rebecca Cabral, property sales agent from Century 21 Farm & Ranch M&M and Associates, at 1-707-374-3900 to inquire about the property owner for this area. Mrs. Cabral was unaware of pipe through levee and has requested photos to share with client. She was not able to provide me with the current property owner information but mentioned that she will contact me next week (week ending Jan 6, 2017). (O. Magana - DWR UCIP)10/24/2016 Section of cover is still missing. Potential pipe failure through levee. Sink hole is present on LS shoulder. Need to contact owner to stop use of pipe to avoid further damage to levee. Recommend internal inspection of pipe to determine integrity of pipe wall. (O. Magana - DWR UCIP)05/08/2013 Missing cover on concrete sump is an immediate hazard and should be repaired. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. 5-foot by 5-foot concrete spillbox located on the landside (LS) slope. (8-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station "R" 105+02) Drawing No. 50-4-2631, Page 2631/2].
FS Date: 10/24/2016

Photo 3 of 3 : UCIP_SP_2018_51345_22043.jpg



Pipe at entrance to concrete sump on LS.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.18	Rating **	C	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Sprinkler system on waterside of levee.					

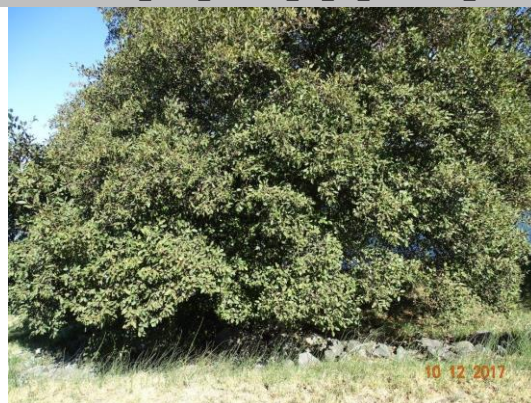
Photo 1 of 1 : SP_2018_NA0002_62_20_20180305_00012.jpg



Looking south at a sprinkler system on waterward slope.

LM Start	4.36	Rating **	M	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_21_20180305_00013.jpg



Looking northeast at the waterside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.54	Rating **	M	Issue No.	68
LM End	4.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.140556 °	38.140556 °
				-121.598357 °	-121.598357 °
DWR ID	DWR_NA0002_01_f_2016_68				
Comment Code					
GA : Garbage					
Inspector Comment					
Landowner stockpiled trash on landside toe.					

LM Start	4.54	Rating **	M	Issue No.	68 (cont)
LM End	4.54	Issue Type +	En	Location *	LS

Photo 1 of 2 : SP_2018_NA0002_62_68_20180305_00052.jpg



Looking southwest at trash stockpile at landward toe. (Spring 2017)

Photo 2 of 2 : SP_2018_NA0002_62_68_20180305_00053.jpg



Looking southwest at trash stockpile at landward toe. (Fall 2016)

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.63	Rating **	M	Issue No.	94
LM End	4.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.139401 °	38.139401 °
				-121.597678 °	-121.597678 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe through the levee, 3.6 feet below the crown. 42-inch concrete standpipe on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11237, 1975 - Bruna Galli). [Additional Reference(s): DWR Levee Log, 2005, 7-inch pipe listed. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 74+06) Drawing No. 50-4-2672]. FS Date: 5/15/2013					

LM Start	4.63	Rating **	M	Issue No.	94 (cont)
LM End	4.63	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_SP_2018_13442_21942.jpg



Pipe visible just under the water surface

Photo 2 of 2 : UCIP_SP_2018_13442_21941.jpg



42-inch concrete riser on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.70	Rating **	M	Issue No.	55
LM End	4.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.138424 °	38.137959 °
				-121.597163 °	-121.596872 °
DWR ID	DWR_NA0002_01_s _ 2018_55				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Native grasses covering landside slope appear to be cultivated. Should not block inspection or access.					

No Photos

LM Start	4.74	Rating **	M	Issue No.	70
LM End	4.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.137921 °	38.137366 °
				-121.596847 °	-121.596421 °
DWR ID	DWR_NA0002_01_s _ 2018_70				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Iceplant blocks visibility of landside slope. Should be removed.					

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				
Comment Code					
GA : Garbage					
Inspector Comment					
Landowner stockpiling wooden boards on landside shoulder.					

Photo 1 of 1 : SP_2018_NA0002_62_24_20180305_00020.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 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.79	Rating **	M	Issue No.	95
LM End	4.79	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.137306 °	38.137306 °
				-121.596371 °	-121.596371 °
DWR ID					
Comment Code					
Inspector Comment					
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: *ABANDONED* 2.5-inch pipe of an unknown material or purpose through the levee, 3.2 feet below the crown. Found pipe in water on the waterside (WS) toe. (Automatic Board Order (ABO) issued as Permit No. 11233, 1975 - Jose H. and Maria H. Cervantez). [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 5/15/2013					

Photo 1 of 1 : UCIP_SP_2018_41562_21935.jpg



Pipe found at WS shoreline.

LM Start	4.83	Rating **	M	Issue No.	48
LM End	4.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.136839 °	38.136839 °
				-121.595994 °	-121.595994 °
DWR ID	DWR_NA0002_01_f_2015_48				
Comment Code					
FE : Fence					
Inspector Comment					
Unauthorized fence at landside toe.					

Photo 1 of 2 : SP_2018_NA0002_62_48_20180305_00034.jpg



Looking at close-up view of fence at landward toe.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.83	Rating **	M	Issue No.	48 (cont)	
LM End	4.83	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.136839 °		38.136839 °
				-121.595994 °		-121.595994 °
DWR ID	DWR_NA0002_01_f_2015_48					
Comment Code						
FE : Fence						
Inspector Comment						
Unauthorized fence at landside toe.						

Photo 2 of 2 : SP_2018_NA0002_62_48_20180305_00035.jpg



Looking southwest at unfinished fence at landward toe.

LM Start	4.95	Rating **	M	Issue No.	73
LM End	4.99	Issue Type +	En	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.135445 °	38.135029 °
				-121.594527 °	-121.594052 °
DWR ID	DWR_NA0002_01_s_2018_73				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Iceplant blocks visibility of landside slope. Should be removed.					

No Photos

LM Start	4.96	Rating **	C	Issue No.	49
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.135397 °	38.135397 °
				-121.594472 °	-121.594472 °
DWR ID	DWR_NA0002_01_f_2017_49				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	4.98	Rating **	C	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				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.05	Rating **	A/W	Issue No.	63
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.134467 °	38.134467 °
				-121.593428 °	-121.593428 °
DWR ID	DWR_NA0002_01_s _ 2017_63				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	5.06	Rating **	C	Issue No.	1
LM End	5.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.134293 °	38.134293 °
				-121.593262 °	-121.593262 °
DWR ID	DWR_NA0002_01_s _ 2017_1				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landside toe.					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	5.06	Rating **	U	Issue No.	75
LM End	5.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.134286 °	38.134286 °
				-121.593229 °	-121.593229 °
DWR ID	DWR_NA0002_01_s_2018_75				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping has been overgrown with berry vines completely blocking visibility and access. Vegetation here should be thinned or removed.					

Photo 1 of 1 : SP_2018_NA0002_62_75_20180409_00112.jpg



Landside landscaping is overgrown and needs thinning and removal.

LM Start	5.06	Rating **	A/W	Issue No.	62
LM End	5.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.134275 °	38.134275 °
				-121.593213 °	-121.593213 °
DWR ID	DWR_NA0002_01_f_2016_62				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead Pine tree on waterside berm.					

Photo 1 of 2 : SP_2018_NA0002_62_62_20180305_00045.jpg



Looking upstream at dead pine tree on waterward berm.

LM Start	5.06	Rating **	A/W	Issue No.	62 (cont)
LM End	5.06	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_NA0002_62_62_20180305_00046.jpg



Looking downstream at dead pine tree 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	5.07	Rating **	M	Issue No.	76
LM End	5.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.134202 °	38.133309 °
				-121.593123 °	-121.592068 °
DWR ID	DWR_NA0002_01_s _ 2018_76				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove iceplant.					

No Photos

LM Start	5.12	Rating **	M	Issue No.	65
LM End	5.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.133695 °	38.133695 °
				-121.592516 °	-121.592516 °
DWR ID	DWR_NA0002_01_s _ 2016_65				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove cactus from landside slope.					

Photo 1 of 1 : SP_2018_NA0002_62_65_20180305_00047.jpg



Looking at cactus on landward slope.

LM Start	5.13	Rating **	U	Issue No.	66
LM End	5.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.133600 °	38.133600 °
				-121.592414 °	-121.592414 °
DWR ID	DWR_NA0002_01_s _ 2016_66				
Comment Code					
BU : Building					
Inspector Comment					
Storage container at landside toe.					

Photo 1 of 1 : SP_2018_NA0002_62_66_20180305_00048.jpg



Looking at storage container at landward 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	5.17	Rating **	M	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				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_31_20180305_00026.jpg



Looking southeast at tree over levee crown.

LM Start	5.18	Rating **	M	Issue No.	77
LM End	5.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.133062 °	38.132753 °
				-121.591798 °	-121.591452 °
DWR ID	DWR_NA0002_01_s_2018_77				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove iceplant.					

No Photos

LM Start	5.22	Rating **	U	Issue No.	78
LM End	5.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132606 °	38.132322 °
				-121.591295 °	-121.590989 °
DWR ID	DWR_NA0002_01_s_2018_78				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Heavy landscaping completely blocks visibility and access to landside slope and toe.					

Photo 1 of 1 : SP_2018_NA0002_62_78_20180409_00113.jpg



Landside landscaping needs to be managed to allow inspection and access.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Overgrowth landscaping on waterside slope.					

Photo 1 of 2 : SP_2018_NA0002_62_61_20180305_00043.jpg

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

LM Start	5.25	Rating **	M	Issue No.	61 (cont)
LM End	5.25	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2018_NA0002_62_61_20180305_00044.jpg

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

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				
Comment Code					
GA : Garbage					
Inspector Comment					
An abandoned child's swing set at the waterside toe.					

Photo 1 of 1 : SP_2018_NA0002_62_60_20180305_00042.jpg



Looking northeast at abandoned child's swing set at 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_2_20180305_00002.jpg



Looking at untrimmed trees on waterward slope.

LM Start	5.36	Rating **	M	Issue No.	96	
LM End	5.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.131048 °	38.131048 °	
				-121.589655 °	-121.589655 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe through the levee, 3.8 feet below the crown. 2-inch primer valve and 48-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11245, 1975 - Mary Nobrega and Manuel Mendes). [Additional Reference(s): DWR Levee Log, 2005, 12-inch pipe listed. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 35+76.7) Drawing No. 50-4-2672]. FS Date: 5/8/2013						

Photo 1 of 3 : UCIP_SP_2018_13090_21282.jpg



Filler pipe and standpipe on LS.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	5.36	Rating **	M	Issue No.	96 (cont)	
LM End	5.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.131048 °	38.131048 °	
				-121.589655 °	-121.589655 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe through the levee, 3.8 feet below the crown. 2-inch primer valve and 48-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11245, 1975 - Mary Nobrega and Manuel Mendes). [Additional Reference(s): DWR Levee Log, 2005, 12-inch pipe listed. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 35+76.7) Drawing No. 50-4-2672]. FS Date: 5/8/2013						

LM Start	5.36	Rating **	M	Issue No.	96 (cont)
LM End	5.36	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_13090_21281.jpg



Slide gate in 48-inch Concrete riser on LS toe.

Photo 3 of 3 : UCIP_SP_2018_13090_21280.jpg



Pipe rusted through at slide gate inside concrete riser.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

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			38.130335 °	38.130335 °
				-121.588920 °	-121.588920 °
DWR ID	DWR_NA0002_01_s_2014_54				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_62_54_20180305_00037.jpg



Looking at dense trees at landward toe.

LM Start	5.43	Rating **	U	Issue No.	23
LM End	5.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.130253 °	38.129359 °
				-121.588822 °	-121.586487 °
DWR ID	DWR_NA0002_01_s_2012_23				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control vegetation at landside toe.					

Photo 1 of 6 : SP_2018_NA0002_62_23_20180305_00014.jpg



Looking south at vegetation at landward toe. (Spring 2016)

LM Start	5.43	Rating **	U	Issue No.	23 (cont)
LM End	5.57	Issue Type +	Ma	Location *	LS

Photo 2 of 6 : SP_2018_NA0002_62_23_20180305_00015.jpg



Looking west at dense vegetation 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	5.43	Rating **	U	Issue No.	23 (cont)	
LM End	5.57	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.130253 °		38.129359 °
				-121.588822 °		-121.586487 °
DWR ID	DWR_NA0002_01_s_2012_23					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Control vegetation at landside toe.						

LM Start	5.43	Rating **	U	Issue No.	23 (cont)
LM End	5.57	Issue Type +	Ma	Location *	LS

Photo 3 of 6 : SP_2018_NA0002_62_23_20180305_00016.jpg



Looking east at dense vegetation at landward toe.

Photo 4 of 6 : SP_2018_NA0002_62_23_20180305_00017.jpg



Looking east at dense vegetation on landward toe.

LM Start	5.43	Rating **	U	Issue No.	23 (cont)
LM End	5.57	Issue Type +	Ma	Location *	LS

Photo 5 of 6 : SP_2018_NA0002_62_23_20180305_00018.jpg



Looking south at dense berry vines and trees on the 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	5.43	Rating **	U	Issue No.	23 (cont)	
LM End	5.57	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.130253 °		38.129359 °
				-121.588822 °		-121.586487 °
DWR ID	DWR_NA0002_01_s _ 2012_23					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Control vegetation at landside toe.						

Photo 6 of 6 : SP_2018_NA0002_62_23_20180305_00019.jpg



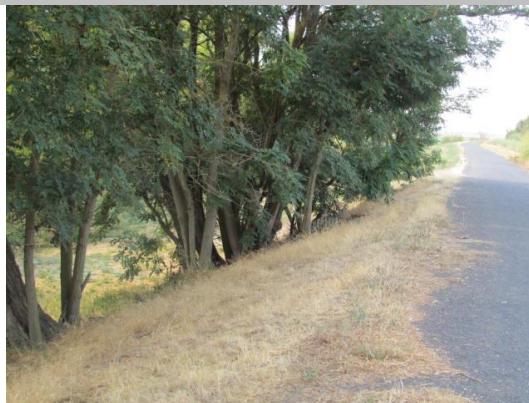
Looking south at trees, berry vines, and wild rose on landside toe.

LM Start	5.46	Rating **	C	Issue No.	10	
LM End	5.46	Issue Type +	Ma	Location *		
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			38.129935 °		38.129935 °
				-121.588383 °		-121.588383 °
DWR ID	DWR_NA0002_01_s _ 2017_10					
Comment Code						
C2 : Repair depressions or ruts in the crown or slope.						
Inspector Comment						
Small pot hole on levee crown.						

No Photos

LM Start	5.78	Rating **	M	Issue No.	17
LM End	5.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.129531 °	38.129531 °
				-121.582775 °	-121.582775 °
DWR ID	DWR_NA0002_01_s _ 2012_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees for visibility.					

Photo 1 of 1 : SP_2018_NA0002_62_17_20180305_00011.jpg



Looking 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/05/2018 04/05/2018	Keith Millard

LM Start	5.84	Rating **	M	Issue No.	51
LM End	5.84	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129655 °	38.129655 °
				-121.581719 °	-121.581719 °
DWR ID	DWR_NA0002_01_f_2017_51				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	5.86	Rating **	M	Issue No.	16
LM End	6.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129705 °	38.129626 °
				-121.581196 °	-121.578757 °
DWR ID	DWR_NA0002_01_s_2018_16				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

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**

Unit Cover Sheet

Spring 2018 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	4/5/2018 - 4/5/2018			
DWR Inspector	Keith Millard			
Accompanied By	Gilbert Labrie DCC Engineering Co, Inc			
	Wade Wylie DWR			

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	0.02	Rating **	M	Issue No.	79
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.191804 °	38.188871 °
				-121.567942 °	-121.575775 °
DWR ID	DWR_NA0002_02_s_2018_79				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_26_20180305_00030.jpg



Looking northeast at fence on landward shoulder and slope.

LM Start	0.49	Rating **	U	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				
Comment Code					
BU : Building					
Inspector Comment					
Storage container at landside toe.					

Photo 1 of 1 : SP_2018_NA0002_63_39_20180305_00044.jpg



Looking south at storage container at landward 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	0.49	Rating **	U	Issue No.	40
LM End	0.49	Issue Type +	En	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				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Dense Berryvines at landside toe.					

Photo 1 of 1 : SP_2018_NA0002_63_40_20180305_00045.jpg



Looking east at berryvines at landward toe.

LM Start	0.55	Rating **	M	Issue No.	90
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.188484 °	38.188484 °
				-121.576916 °	-121.576916 °
DWR ID	DWR_NA0002_02_f_2016_90				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.59	Rating **	U	Issue No.	80
LM End	0.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.188260 °	38.188260 °
				-121.577467 °	-121.577467 °
DWR ID	DWR_NA0002_02_s_2018_80				
Comment Code					
BU : Building					
Inspector Comment					
Cluster of floating docks on waterside toe.					

Photo 1 of 1 : SP_2018_NA0002_63_80_20180409_00210.jpg



Floating docks and other debris related to homeless camp on waterside should be removed.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	0.66	Rating **	U	Issue No.	1
LM End	0.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.187672 °	38.187672 °
				-121.578496 °	-121.578496 °
DWR ID	DWR_NA0002_02_s_2012_1				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : SP_2018_NA0002_63_1_20180305_00001.jpg



Looking southwest at the landside slope.

LM Start	0.66	Rating **	U	Issue No.	1 (cont)
LM End	0.66	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_NA0002_63_1_20180305_00002.jpg



Looking northeast at untrimmed trees at landward toe.

LM Start	0.72	Rating **	U	Issue No.	97
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.187102 °	38.187102 °
				-121.579463 °	-121.579463 °
DWR ID	DWR_NA0002_02_f_2016_97				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed fig tree on landside toe.					

Photo 1 of 2 : SP_2018_NA0002_63_97_20180305_00069.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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	0.72	Rating **	U	Issue No.	97 (cont)	
LM End	0.72	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.187102 °		38.187102 °
				-121.579463 °		-121.579463 °
DWR ID	DWR_NA0002_02_f_2016_97					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
Untrimmed fig tree on landside toe.						

Photo 2 of 2 : SP_2018_NA0002_63_97_20180305_00070.jpg



Looking east at untrimmed fig tree at landward toe.

LM Start	0.73	Rating **	U	Issue No.	2
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.187029 °	38.186518 °
				-121.579569 °	-121.580434 °
DWR ID	DWR_NA0002_02_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees within twenty foot zone on waterside slope.					

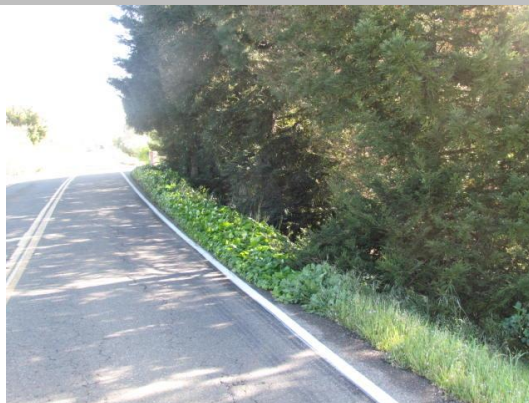
Photo 1 of 1 : SP_2018_NA0002_63_2_20180305_00003.jpg



Looking southwest at dense willows and trees on waterward slope.

LM Start	0.80	Rating **	U	Issue No.	8
LM End	0.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186410 °	38.186172 °
				-121.580616 °	-121.581023 °
DWR ID	DWR_NA0002_02_s_2012_8				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 3 : SP_2018_NA0002_63_8_20180305_00009.jpg

Looking northeast at dense landscaping on landward slope and toe.
(Spring 2016)

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	0.80	Rating **	U	Issue No.	8 (cont)	
LM End	0.83	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.186410 °		38.186172 °
				-121.580616 °		-121.581023 °
DWR ID	DWR_NA0002_02_s_2012_8					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 2 of 3 : SP_2018_NA0002_63_8_20180305_00010.jpg



Looking southwest at dense landscaping on landside slope.

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

Photo 3 of 3 : SP_2018_NA0002_63_8_20180305_00011.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 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

Brannan Andrus Levee Maintenance District

LM Start	0.83	Rating **	M	Issue No.	139 (cont)
LM End	0.83	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_12164_19726.jpg



Pump on pile structure with walkway on WS berm.

Photo 2 of 3 : UCIP_SP_2018_12164_19725.jpg



1.5-inch galvanized iron electrical conduit at same location as 12-inch pipe on WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	0.83	Rating **	M	Issue No.	139 (cont)	
LM End	0.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.186199 °	38.186199 °	
				-121.580968 °	-121.580968 °	
DWR ID						
Comment Code						
Inspector Comment						
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-inch standpipe for siphon breaker on LS slope has been dislodged from the LS slope and rests at LS toe. Pipe appears to be failing at multiple places due to corrosion. FIELD_STRUCT_DESC: 2 of 4: 12-inch irrigation pipe of an unknown material through the levee, 7 feet below the crown. Pump on pile structure with a walkway in the river. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) slope with a 7-foot by 9-foot concrete distribution box on the LS toe. Service pole on the LS slope with a 1.5-inch galvanized iron electrical conduit at the same location. (Permit No. 1173, 1947 - Reclamation District No. 556). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 52+21) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2018_12164_19724.jpg



Multiple patches on Pipe along WS berm.

LM Start	0.85	Rating **	M	Issue No.	108
LM End	1.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186021 °	38.180473 °
				-121.581267 °	-121.586507 °
DWR ID	DWR_NA0002_02_f_2017_108				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_108_20180305_00084.jpg



Looking northeast at the 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	0.86	Rating **	M	Issue No.	86
LM End	1.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.185910 °	38.180472 °
				-121.581441 °	-121.586509 °
DWR ID	DWR_NA0002_02_s_2018_86				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.00	Rating **	M	Issue No.	133
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.184398 °	38.184398 °
				-121.583134 °	-121.583134 °
DWR ID	DWR_NA0002_02_f_2017_133				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limbs on waterside slope.					

No Photos

LM Start	1.07	Rating **	M	Issue No.	91
LM End	1.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.183586 °	38.183586 °
				-121.584010 °	-121.584010 °
DWR ID	DWR_NA0002_02_f_2015_91				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree branches on waterside slope and berm.					

Photo 1 of 2 : SP_2018_NA0002_63_91_20180305_00060.jpg



Looking south west at fallen tree on waterward slope and berm.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.07	Rating **	M	Issue No.	91 (cont)	
LM End	1.07	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.183586 °	38.183586 °	
				-121.584010 °	-121.584010 °	
DWR ID	DWR_NA0002_02_f_2015_91					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Downed tree branches on waterside slope and berm.						

Photo 2 of 2 : SP_2018_NA0002_63_91_20180305_00061.jpg



Looking west at fallen tree on waterward slope and berm.

LM Start	1.16	Rating **	M	Issue No.	92
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.182527 °	38.182527 °
				-121.584901 °	-121.584901 °
DWR ID	DWR_NA0002_02_f_2015_92				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree branch on waterside slope and berm.					

Photo 1 of 2 : SP_2018_NA0002_63_92_20180305_00062.jpg



Looking west at fallen tree branch on waterward berm. (Spring 2016)

LM Start	1.16	Rating **	M	Issue No.	92 (cont)
LM End	1.16	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_NA0002_63_92_20180305_00063.jpg



Looking at fallen tree on waterward slope and berm. (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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.23	Rating **	M	Issue No.	134
LM End	1.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.181617 °	38.181265 °
				-121.585589 °	-121.585863 °
DWR ID	DWR_NA0002_02_f_2017_134				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense wild berry vines at landside toe.					

Photo 1 of 1 : SP_2018_NA0002_63_134_20180305_00100.jpg



Looking southwest at the landside slope.

LM Start	1.33	Rating **	M	Issue No.	81
LM End	1.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.180472 °	38.180472 °
				-121.586510 °	-121.586510 °
DWR ID	DWR_NA0002_02_s_2018_81				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove large fallen tree on waterside slope.					

Photo 1 of 1 : SP_2018_NA0002_63_81_20180409_00211.jpg



Fallen tree on waterside should be removed.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.39	Rating **	M	Issue No.	140
LM End	1.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.179666 °	38.179666 °
				-121.587109 °	-121.587109 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on berm. 7-foot by 9-foot concrete distribution box on the landside (LS) toe. Service poles on the LS slope with a 1.5-inch galvanized steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11261, 1975 - Anthony and John Correia). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 42+33) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013					

LM Start	1.39	Rating **	M	Issue No.	140 (cont)
LM End	1.39	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_12165_19731.jpg



JP on LS slope.

Photo 2 of 3 : UCIP_SP_2018_12165_19730.jpg



Pipe and pumphouse on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.39	Rating **	M	Issue No.	140 (cont)	
LM End	1.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.179666 °	38.179666 °	
				-121.587109 °	-121.587109 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on berm. 7-foot by 9-foot concrete distribution box on the landside (LS) toe. Service poles on the LS slope with a 1.5-inch galvanized steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11261, 1975 - Anthony and John Correia). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 42+33) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2018_12165_19729.jpg



Pipe at pumphouse has been disconnected from pump and is open.

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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree branch on landside toe.					

Photo 1 of 1 : SP_2018_NA0002_63_96_20180305_00068.jpg



Looking east at broken tree limb at landward toe.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.43	Rating **	M	Issue No.	135
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179169 °	38.179169 °
				-121.587511 °	-121.587511 °
DWR ID	DWR_NA0002_02_f_2017_135				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limbs on waterside slope.					

No Photos

LM Start	1.45	Rating **	U	Issue No.	27
LM End	1.47	Issue Type +	Ma	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense vegetation should be trimmed back fifteen feet from landside toe.					

LM Start	1.45	Rating **	U	Issue No.	27 (cont)
LM End	1.47	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : SP_2018_NA0002_63_27_20180305_00031.jpg



Looking east at dense vegetation at landward toe.

Photo 2 of 4 : SP_2018_NA0002_63_27_20180305_00032.jpg



Looking east at dense vegetation 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.45	Rating **	U	Issue No.	27 (cont)	
LM End	1.47	Issue Type +	Ma	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					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
Dense vegetation should be trimmed back fifteen feet from landside toe.						

LM Start	1.45	Rating **	U	Issue No.	27 (cont)
LM End	1.47	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP_2018_NA0002_63_27_20180305_00033.jpg



Looking east at dense vegetation on landward toe.

Photo 4 of 4 : SP_2018_NA0002_63_27_20180305_00034.jpg



Looking southeast at dense trees on landside toe.

LM Start	1.46	Rating **	U	Issue No.	109
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.178805 °	38.178805 °
				-121.587850 °	-121.587850 °
DWR ID	DWR_NA0002_02_s_2016_109				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree branches and limbs on landside slope.					

Photo 1 of 2 : SP_2018_NA0002_63_109_20180305_00085.jpg



Looking southwest at fallen tree on waterward 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.46	Rating **	U	Issue No.	109 (cont)	
LM End	1.46	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.178805 °		38.178805 °
				-121.587850 °		-121.587850 °
DWR ID	DWR_NA0002_02_s _ 2016_109					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Downed tree branches and limbs on landside slope.						

Photo 2 of 2 : SP_2018_NA0002_63_109_20180305_00086.jpg



Looking west at fallen tree on waterward slope.

LM Start	1.60	Rating **	M	Issue No.	35
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.177047 °	38.176874 °
				-121.589139 °	-121.589249 °
DWR ID	DWR_NA0002_02_s _ 2012_35				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.61	Rating **	M	Issue No.	141
LM End	1.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.176874 °	38.176874 °
				-121.589200 °	-121.589200 °
DWR ID					
Comment Code					
Inspector Comment					
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-foot by 3-foot concrete distribution box at the landside (LS) toe. Polyvinyl chloride standpipe at the waterside (WS) toe. Hose bib attachment on pipe at the LS toe.					
FS Date: 4/18/2013					

Photo 1 of 3 : UCIP_SP_2018_12183_19742.jpg



Concrete distribution box on LS toe.

LM Start	1.61	Rating **	M	Issue No.	141 (cont)
LM End	1.61	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_12183_19741.jpg



Distribution box and hose bib on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.61	Rating **	M	Issue No.	141 (cont)	
LM End	1.61	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.176874 °	38.176874 °	
				-121.589200 °	-121.589200 °	
DWR ID						
Comment Code						
Inspector Comment						
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-foot by 3-foot concrete distribution box at the landside (LS) toe. Polyvinyl chloride standpipe at the waterside (WS) toe. Hose bib attachment on pipe at the LS toe.						
FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2018_12183_19740.jpg



4-inch suction pipe on WS toe.

LM Start	1.64	Rating **	M	Issue No.	136
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.176474 °	38.176474 °
				-121.589483 °	-121.589483 °
DWR ID	DWR_NA0002_02_f_2017_136				
Comment Code					
TR : Tree or limb					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.71	Rating **	M	Issue No.	137
LM End	1.71	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175575 °	38.175575 °
				-121.590055 °	-121.590055 °
DWR ID	DWR_NA0002_02_f_2017_137				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landside slope and toe					

Photo 1 of 2 : SP_2018_NA0002_63_45_20180305_00047.jpg



Looking southwest 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_2018_NA0002_63_45_20180305_00048.jpg



Looking northeast at dense vegetation 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.82	Rating **	M	Issue No.	28
LM End	1.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174189 °	38.174189 °
				-121.590936 °	-121.590936 °
DWR ID	DWR_NA0002_02_s_2012_28				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus on landside slope.					

Photo 1 of 1 : SP_2018_NA0002_63_28_20180305_00035.jpg



Looking northeast at cactus on landward slope and toe.

LM Start	1.83	Rating **	C	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				
Comment Code					
TA : Tank					
Inspector Comment					
Propane tank on landside slope.					

No Photos

LM Start	1.88	Rating **	M	Issue No.	93
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.173403 °	38.173221 °
				-121.591389 °	-121.591512 °
DWR ID	DWR_NA0002_02_f_2015_93				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree limbs on landside slope and toe.					

Photo 1 of 2 : SP_2018_NA0002_63_93_20180305_00064.jpg



Looking southeast at broken tree limb on landward slope.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.88	Rating **	M	Issue No.	93 (cont)	
LM End	1.89	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.173403 °	38.173221 °	
				-121.591389 °	-121.591512 °	
DWR ID	DWR_NA0002_02_f_2015_93					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Broken tree limbs on landside slope and toe.						

Photo 2 of 2 : SP_2018_NA0002_63_93_20180305_00065.jpg



Looking east at broken tree limb at landward toe.

LM Start	1.89	Rating **	M	Issue No.	138
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.173272 °	38.173272 °
				-121.591509 °	-121.591509 °
DWR ID	DWR_NA0002_02_f_2017_138				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_138_20180305_00101.jpg



Looking southeast at the 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.90	Rating **	M	Issue No.	142
LM End	1.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.173197 °	38.173197 °
				-121.591552 °	-121.591552 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on the waterside (WS) slope. 1-inch galvanized iron steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11294, 1975 - Hubert Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 8+72) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013					

LM Start	1.90	Rating **	M	Issue No.	142 (cont)
LM End	1.90	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_12185_19751.jpg



Pumphouse on WS slope.

Photo 2 of 3 : UCIP_SP_2018_12185_19750.jpg



Pipe and shutoff valve at pumphouse on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.90	Rating **	M	Issue No.	142 (cont)	
LM End	1.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.173197 °		38.173197 °
				-121.591552 °		-121.591552 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on the waterside (WS) slope. 1-inch galvanized iron steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11294, 1975 - Hubert Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 8+72) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2018_12185_19749.jpg



Pipe at LS slope (open).

LM Start	1.91	Rating **	U	Issue No.	12
LM End	1.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.173030 °	38.172598 °
				-121.591624 °	-121.591853 °
DWR ID	DWR_NA0002_02_s_2012_12				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Dense vegetation on landside slope.					

Photo 1 of 2 : SP_2018_NA0002_63_12_20180305_00017.jpg



Looking south at dense landscaping on landside slope and toe.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	1.91	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			38.173030 °		38.172598 °
				-121.591624 °		-121.591853 °
DWR ID	DWR_NA0002_02_s_2012_12					
Comment Code						
V6 : Landscaping						
Inspector Comment						
Dense vegetation on landside slope.						

Photo 2 of 2 : SP_2018_NA0002_63_12_20180305_00018.jpg



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

LM Start	2.16	Rating **	M	Issue No.	120
LM End	2.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.169814 °	38.169814 °
				-121.593951 °	-121.593951 °
DWR ID	DWR_NA0002_02_f_2016_120				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Fig tree saplings on landside slope.					

Photo 1 of 1 : SP_2018_NA0002_63_120_20180305_00098.jpg



Looking northeast at fig tree saplings at landward toe.

LM Start	2.21	Rating **	M	Issue No.	128
LM End	2.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.169154 °	38.169154 °
				-121.594258 °	-121.594258 °
DWR ID	DWR_NA0002_02_f_2017_128				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_25_20180305_00029.jpg



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

LM Start	2.42	Rating **	M	Issue No.	143
LM End	2.42	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.166819 °	38.166819 °
				-121.596590 °	-121.596590 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the waterside (WS) berm. 30-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11263, 1975 - Ensher, Alexander, and Barsoon, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.25) welded steel pipe listed, Drawing No. 6-13-1100]. FS Date: 4/18/2013					

Photo 1 of 3 : UCIP_SP_2018_12211_19770.jpg



Possible pumphouse on WS shoulder.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.42	Rating **	M	Issue No.	143 (cont)
LM End	2.42	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.166819 °	38.166819 °
				-121.596590 °	-121.596590 °
DWR ID					
Comment Code					
Inspector Comment					
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. Pump house needs to be unlocked to gather additional information. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the waterside (WS) berm. 30-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11263, 1975 - Ensher, Alexander, and Barsoon, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.25) welded steel pipe listed, Drawing No. 6-13-1100]. FS Date: 4/18/2013					

Photo 2 of 3 : UCIP_SP_2018_12211_19769.jpg



Evidence of pipe (buried) on LS in ditch.

LM Start	2.42	Rating **	M	Issue No.	143 (cont)
LM End	2.42	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_12211_19768.jpg



JP with a meter on pole that would be appropriate for this crossing.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.42	Rating **	U	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense willows on landside slope.					

LM Start	2.42	Rating **	U	Issue No.	99 (cont)
LM End	2.42	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2018_NA0002_63_99_20180305_00072.jpg



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

Photo 2 of 2 : SP_2018_NA0002_63_99_20180305_00073.jpg



LM Start	2.48	Rating **	U	Issue No.	29
LM End	2.48	Issue Type +	Ma	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 2 : SP_2018_NA0002_63_29_20180305_00036.jpg



Looking northeast at dense vegetation 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.48	Rating **	U	Issue No.	29 (cont)	
LM End	2.48	Issue Type +	Ma	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					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						

Photo 2 of 2 : SP_2018_NA0002_63_29_20180305_00037.jpg



Looking southwest at dense vegetation on landward slope.

LM Start	2.49	Rating **	M	Issue No.	127
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.166243 °	38.166243 °
				-121.597741 °	-121.597741 °
DWR ID	DWR_NA0002_02_f_2017_127				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.54	Rating **	U	Issue No.	144
LM End	2.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.165980 °	38.165980 °
				-121.598520 °	-121.598520 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51314 DS_ID:21879 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 same as previous inspection culvert is open on both ends. WS blocked by blankets -- WS structure is being used as a shelter. (O. Magana - DWR UCIP)04/18/2013 Culvert open on both ends. Needs to be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 42-inch by 42-inch open reinforced concrete drainage culvert through the levee, 6 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005, 3-foot by 3.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 18.16) Drawing No. 6-13-1100]. FS Date: 10/24/2016					

Photo 1 of 3 : UCIP_SP_2018_51314_19773.jpg



Concrete tunnel open on both ends.

LM Start	2.54	Rating **	U	Issue No.	144 (cont)
LM End	2.54	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51314_19772.jpg



Top of concrete tunnel on LS shoulder.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.54	Rating **	U	Issue No.	144 (cont)		
LM End	2.54	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Latitude/Longitude			
				Start		End	
Item	DWR UCIP LMA Responsibility			38.165980	°	38.165980	°
				-121.598520	°	-121.598520	°
DWR ID							
Comment Code							
Inspector Comment							
FS_ID:51314 DS_ID:21879 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 same as previous inspection culvert is open on both ends. WS blocked by blankets -- WS structure is being used as a shelter. (O. Magana - DWR UCIP)04/18/2013 Culvert open on both ends. Needs to be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 42-inch by 42-inch open reinforced concrete drainage culvert through the levee, 6 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005, 3-foot by 3.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 18.16) Drawing No. 6-13-1100]. FS Date: 10/24/2016							

Photo 3 of 3 : UCIP_SP_2018_51314_19771.jpg



Concrete tunnel on LS shoulder.

LM Start	2.56	Rating **	M	Issue No.	82
LM End	2.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.165898 °	38.165898 °
				-121.598888 °	-121.598888 °
DWR ID	DWR_NA0002_02_f_2017_82				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_82_20180305_00056.jpg



Looking northwest at the waterside slope.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.57	Rating **	U	Issue No.	145	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.165775 °		38.165775 °
				-121.599048 °		-121.599048 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51315 DS_ID:21880 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 same as previous inspection concrete box culvert will need to be abandoned properly. (O. Magana - DWR UCIP)04/18/2013 tunnel should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 48-inch reinforced concrete drainage culvert through the levee, 6.5-inches below the crown. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.13) 3-foot by 3-foot concrete box listed, Drawing No. 6-13-1100]. FS Date: 10/24/2016						

LM Start	2.57	Rating **	U	Issue No.	145 (cont)
LM End	2.57	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51315_19776.jpg



Tunnel open on LS shoulder.

Photo 2 of 3 : UCIP_SP_2018_51315_19775.jpg



Concrete tunnel on LS shoulder.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.57	Rating **	U	Issue No.	145 (cont)	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.165775 °	38.165775 °	
				-121.599048 °	-121.599048 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51315 DS_ID:21880 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 same as previous inspection concrete box culvert will need to be abandoned properly. (O. Magana - DWR UCIP)04/18/2013 tunnel should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 48-inch reinforced concrete drainage culvert through the levee, 6.5-inches below the crown. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.13) 3-foot by 3-foot concrete box listed, Drawing No. 6-13-1100]. FS Date: 10/24/2016						

Photo 3 of 3 : UCIP_SP_2018_51315_19774.jpg



10'X5' concrete box on WS slope, filled with soil.

LM Start	2.58	Rating **	M	Issue No.	18
LM End	2.63	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.165945 °	38.165498 °
				-121.599345 °	-121.600080 °
DWR ID	DWR_NA0002_02_s_2016_18				
Comment Code					
Inspector Comment					
2009 - Short reach of vertical bank at the toe. 2010 - Large tree is getting ready to fall in. 2015: Freshly exposed tree roots. [2015 Site ID: SAC_18-1_L]					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.66	Rating **	M	Issue No.	37
LM End	2.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.165303 °	38.164682 °
				-121.600477 °	-121.601804 °
DWR ID	DWR_NA0002_02_s_2016_37				
Comment Code					
Inspector Comment					
2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2015: Large tree expected to pop out within next couple of years, will take very large chunk of levee out. [2015 Site ID: SAC_18-0_L]					

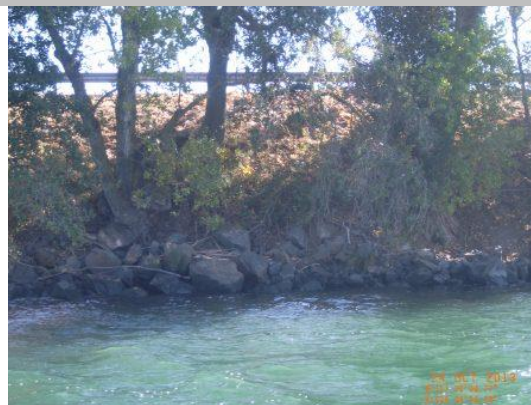
Photo 1 of 2 : SP_2018_NA0002_63_37_20180305_00042.jpg



USACE 2013 Photo #1

LM Start	2.66	Rating **	M	Issue No.	37 (cont)
LM End	2.74	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_NA0002_63_37_20180305_00043.jpg



USACE 2013 Photo #2

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.75	Rating **	M	Issue No.	146
LM End	2.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164432 °	38.164432 °
				-121.601918 °	-121.601918 °
DWR ID					
Comment Code					
Inspector Comment					
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 steel sewer discharge line through the levee, 4 feet below the crown. Two pile dolphins in stream. Fire hydrant on the landside (LS) shoulder. (Permit No. 2005, 1954 - City of Isleton).					
[Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 4/18/2013					

Photo 1 of 3 : UCIP_SP_2018_12214_19778.jpg



Pipe, pile structure, and dolphins on WS.

LM Start	2.75	Rating **	M	Issue No.	146 (cont)
LM End	2.75	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_12214_19777.jpg



Pipe on pier at WS.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.75	Rating **	M	Issue No.	146 (cont)
LM End	2.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164432 °	38.164432 °
				-121.601918 °	-121.601918 °
DWR ID					
Comment Code					
Inspector Comment					
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 steel sewer discharge line through the levee, 4 feet below the crown. Two pile dolphins in stream. Fire hydrant on the landside (LS) shoulder. (Permit No. 2005, 1954 - City of Isleton). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/18/2013					

Photo 3 of 3 : UCIP_SP_2018_12214_19779.jpg



Fire hydrant on LS shoulder.

LM Start	2.81	Rating **	M	Issue No.	94
LM End	2.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.164077 °	38.164077 °
				-121.602853 °	-121.602853 °
DWR ID	DWR_NA0002_02_f_2015_94				
Comment Code					
FE : Fence					
Inspector Comment					
Discard downed fence on landside shoulder.					

Photo 1 of 1 : SP_2018_NA0002_63_94_20180305_00066.jpg



Looking northeast at downed fence on landward shoulder.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.84	Rating **	U	Issue No.	147
LM End	2.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.163850 °	38.163850 °
				-121.603317 °	-121.603317 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51316 DS_ID:21882 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 same as previous inspection tunnel is opened on both ends. (O. Magana - DWR UCIP)04/18/2013 Tunnel open on both ends and should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 1 foot below the crown. [Additional Reference(s): DWR Levee Log, 2005, 4-foot by 4.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 17.89) 48-inch by 52-inch concrete box listed, Drawing No. 6-13-1100]. FS Date: 10/24/2016					

LM Start	2.84	Rating **	U	Issue No.	147 (cont)
LM End	2.84	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51316_19782.jpg



Entrance to tunnel on LS slope.

Photo 2 of 3 : UCIP_SP_2018_51316_19781.jpg



Tunnel opening on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.84	Rating **	U	Issue No.	147 (cont)	
LM End	2.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.163850 °	38.163850 °	
				-121.603317 °	-121.603317 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51316 DS_ID:21882 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 same as previous inspection tunnel is opened on both ends. (O. Magana - DWR UCIP)04/18/2013 Tunnel open on both ends and should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 1 foot below the crown. [Additional Reference(s): DWR Levee Log, 2005, 4-foot by 4.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 17.89) 48-inch by 52-inch concrete box listed, Drawing No. 6-13-1100]. FS Date: 10/24/2016						

Photo 3 of 3 : UCIP_SP_2018_51316_19780.jpg



Tunnel opening on WS slope.

LM Start	2.90	Rating **	M	Issue No.	148
LM End	2.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163475 °	38.163475 °
				-121.604221 °	-121.604221 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe of an unknown material through the levee, 8.7 feet below the crown. Pump in pump house on the waterside (WS) slope. Slide gate in pump house. Pipe not visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11269, 1975 - Griffin Steel and Supply Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/18/2013					

Photo 1 of 2 : UCIP_SP_2018_12217_19785.jpg



Pumphouse on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.90	Rating **	M	Issue No.	148 (cont)	
LM End	2.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.163475 °	38.163475 °	
				-121.604221 °	-121.604221 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 8.7 feet below the crown. Pump in pump house on the waterside (WS) slope. Slide gate in pump house. Pipe not visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11269, 1975 - Griffin Steel and Supply Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/18/2013						

Photo 2 of 2 : UCIP_SP_2018_12217_19784.jpg



Slide gate in pumphouse on WS slope.

LM Start	2.91	Rating **	M	Issue No.	149
LM End	2.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163413 °	38.163413 °
				-121.604399 °	-121.604399 °
DWR ID					
Comment Code					
Inspector Comment					
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 steel telephone conduit through the levee, 2 feet below the crown, and under the channel. Four 4-inch galvanized iron conductor pipes sleeved through 12-inch steel conduit. Sign on the waterside (WS) slope of levee across river provides location for this crossing. (Permit No. 14173, 1985 - Owner Unknown). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/18/2013					

Photo 1 of 2 : UCIP_SP_2018_16005_27067.jpg



Sign on opposite side of river provides indication of pipe location.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.91	Rating **	M	Issue No.	149 (cont)
LM End	2.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163413 °	38.163413 °
				-121.604399 °	-121.604399 °
DWR ID					
Comment Code					
Inspector Comment					
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 steel telephone conduit through the levee, 2 feet below the crown, and under the channel. Four 4-inch galvanized iron conductor pipes sleeved through 12-inch steel conduit. Sign on the waterside (WS) slope of levee across river provides location for this crossing. (Permit No. 14173, 1985 - Owner Unknown). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/18/2013					

Photo 2 of 2 : UCIP_SP_2018_16005_27066.jpg



Sign on opposite side of river provides indication of pipe location.

LM Start	2.93	Rating **	U	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				
Comment Code					
UR : Urban					
Inspector Comment					
Several encroachments within town limits along landside slope.					

Photo 1 of 2 : SP_2018_NA0002_63_30_20180305_00038.jpg



Looking north at several encroachment along landside slope and toe.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	2.93	Rating **	U	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					
Comment Code						
UR : Urban						
Inspector Comment						
Several encroachments within town limits along landside slope.						

Photo 2 of 2 : SP_2018_NA0002_63_30_20180305_00039.jpg



Looking south at several encroachments along landward slope and toe.

LM Start	2.99	Rating **	M	Issue No.	150
LM End	2.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163063 °	38.163063 °
				-121.605799 °	-121.605799 °
DWR ID					
Comment Code					
Inspector Comment					
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 of an unknown material or purpose through levee 4.5 feet below crown. Originally included in the 1959 O&M manual. Pipe visible at foundation on WS shoulder. FS Date: 4/24/2013 10:00:00 AM					

Photo 1 of 2 : UCIP_SP_2018_12724_20643.jpg



Pipe visible at concrete foundation on WS shoulder.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.17	Rating **	M	Issue No.	5 (cont)	
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					
Comment Code						
T4 : Trim trees over roadway to at least 12 feet above ground level.						
Inspector Comment						

Photo 2 of 2 : SP_2018_NA0002_63_5_20180305_00005.jpg



Looking west at overhanging tree on waterside shoulder.

LM Start	3.21	Rating **	C	Issue No.	83
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.162635 °	38.162635 °
				-121.609869 °	-121.609869 °
DWR ID	DWR_NA0002_02_f_2017_83				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	3.22	Rating **	U	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				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 3 : SP_2018_NA0002_63_7_20180305_00006.jpg



Looking southwest at the landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.22	Rating **	U	Issue No.	7 (cont)	
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					
Comment Code						
V6 : Landscaping						
Inspector Comment						

LM Start	3.22	Rating **	U	Issue No.	7 (cont)
LM End	3.22	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2018_NA0002_63_7_20180305_00007.jpg



Looking south at overgrown landscaping on landward slope. (Fall 2016)

Photo 3 of 3 : SP_2018_NA0002_63_7_20180305_00008.jpg



Looking south at overgrown landscaping on landward slope. (Fall 2015)

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.29	Rating **	M	Issue No.	151
LM End	3.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162430 °	38.162430 °
				-121.611248 °	-121.611248 °
DWR ID					
Comment Code					
Inspector Comment					
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 drainage pipe through the levee, 8 feet below the crown. Pipe visible next to foundation on the landside (LS) toe. FS Date: 4/24/2013					

Photo 1 of 2 : UCIP_SP_2018_15966_26949.jpg



Pipe visible next to foundation on LS slope.

LM Start	3.29	Rating **	M	Issue No.	151 (cont)
LM End	3.29	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_15966_26948.jpg



Pipe visible next to foundation on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.31	Rating **	M	Issue No.	152
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.162378 °	38.162378 °	
			-121.611656 °	-121.611656 °	
DWR ID					
Comment Code					
Inspector Comment					
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: 4/24/2013					

No Photos

LM Start	3.37	Rating **	M	Issue No.	153
LM End	3.37	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.162388 °	38.162388 °	
			-121.612847 °	-121.612847 °	
DWR ID					
Comment Code					
Inspector Comment					
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 abandoned properly. Pumphouse has collapsed. FIELD_STRUCT_DESC: 6-inch irrigation pipe of an unknown material through the levee, 4.5 feet below the crown. Pump in pump house on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 11266, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/24/2013					

Photo 1 of 2 : UCIP_SP_2018_12745_20683.jpg



Pipe and wrecked pumphouse on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.43	Rating **	U	Issue No.	34
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.162459 °	38.162828 °
				-121.613848 °	-121.616263 °
DWR ID	DWR_NA0002_02_s_2016_34				

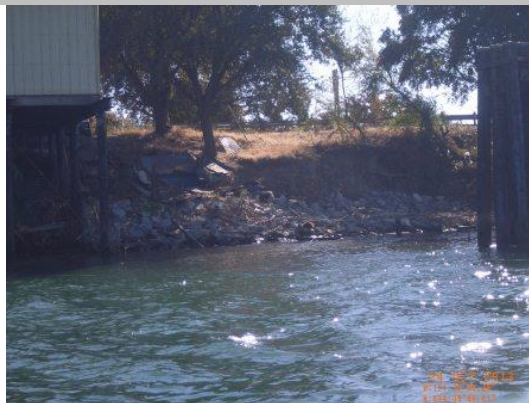
Comment Code

Inspector Comment

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. 2015: More rock has been placed in spots along the toe, but it is still insufficient. [2015 Site ID: SAC_17-2_L]

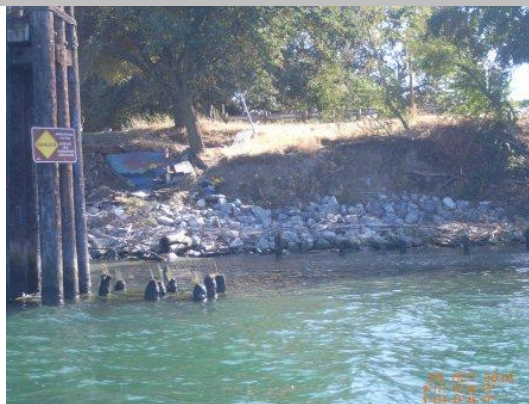
LM Start	3.43	Rating **	U	Issue No.	34 (cont)
LM End	3.56	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2018_NA0002_63_34_20180305_00040.jpg



USACE 2013 Photo #1

Photo 2 of 2 : SP_2018_NA0002_63_34_20180305_00041.jpg



USACE 2013 Photo #2

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.44	Rating **	M	Issue No.	154 (cont)	
LM End	3.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.162473 °		38.162473 °
				-121.613963 °		-121.613963 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 7.7 feet below the crown. Pump in pump house on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11275, 1975 - M. R. V., Inc., Isleton Motel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 17.3) (Reclamation District No. 2067) steel pipe listed]. FS Date: 4/24/2013						

Photo 3 of 3 : UCIP_SP_2018_12746_20684.jpg



Pipe and pump on WS toe.

LM Start	3.47	Rating **	U	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				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_101_20180305_00075.jpg



Looking at dense landscaping on landward slope.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.52	Rating **	M	Issue No.	126
LM End	3.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162559 °	38.162597 °
				-121.615436 °	-121.615808 °
DWR ID	DWR_NA0002_02_f_2017_126				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.62	Rating **	C	Issue No.	20
LM End	3.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.162959 °	38.163334 °
				-121.617323 °	-121.619312 °
DWR ID	DWR_NA0002_02_s_2016_20				
Comment Code					
Inspector Comment					
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. 2015: New rock placed on the levee slope for most of the downstream end, but bad spots still remain. [2015 Site ID: SAC_16-8_L]					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.66	Rating **	U	Issue No.	155	
LM End	3.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.162908 °	38.162908 °	
				-121.618075 °	-121.618075 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51317 DS_ID:21894 EP_NO: 13462 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 Pipe has been cut and capped for the installation of the rock slope protection (RSP) on the WS bank under the USACE's Sacramento River Bank Protection Project (Contract 7, River Mile 16.8L). The CVFPB issued a letter dated July 20, 2016 for the proposed work and determined that a encroachment permit was unnecessary for the minor alteration (addition of RSP). However, once the work is completed the CVFPB, Minh Chieng, is expecting River Vine Ranch, owner of 16-inch pipe, to submit application for name change. UCIP recommends owner complete internal inspection to determine condition of pipe through levee and LS slope to determine if leak is present on WS shoulder. (O. Magana - DWR UCIP)04/24/2013 Possible sinkhole over pipe on WS shoulder. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 2.5 feet below the crown. Pipe is connected to 42-inch concrete pipe sump. (16-inch pipe authorized under Permit No. 13462, 1982 - Lee and Correia). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/24/2016						

LM Start	3.66	Rating **	U	Issue No.	155 (cont)
LM End	3.66	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_51317_20689.jpg



Pipe on WS slope.

Photo 2 of 3 : UCIP_SP_2018_51317_20688.jpg



Possible sinkhole over pipe on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.66	Rating **	U	Issue No.	155 (cont)	
LM End	3.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.162908 °	38.162908 °	
				-121.618075 °	-121.618075 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51317 DS_ID:21894 EP_NO: 13462 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 Pipe has been cut and capped for the installation of the rock slope protection (RSP) on the WS bank under the USACE's Sacramento River Bank Protection Project (Contract 7, River Mile 16.8L). The CVFPB issued a letter dated July 20, 2016 for the proposed work and determined that a encroachment permit was unnecessary for the minor alteration (addition of RSP). However, once the work is completed the CVFPB, Minh Chieng, is expecting River Vine Ranch, owner of 16-inch pipe, to submit application for name change. UCIP recommends owner complete internal inspection to determine condition of pipe through levee and LS slope to determine if leak is present on WS shoulder. (O. Magana - DWR UCIP)04/24/2013 Possible sinkhole over pipe on WS shoulder. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 2.5 feet below the crown. Pipe is connected to 42-inch concrete pipe sump. (16-inch pipe authorized under Permit No. 13462, 1982 - Lee and Correia). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/24/2016						

Photo 3 of 3 : UCIP_SP_2018_51317_20687.jpg



Pumphouse on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.70	Rating **	M	Issue No.	156
LM End	3.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163048 °	38.163048 °
				-121.618839 °	-121.618839 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe of an unknown material					
through the levee, 7.7 feet below the crown. 6-foot by 6-foot concrete					
distribution box on the LS toe. (Permit No. 1615, 1951 - Jones and					
Miller). [Additional Reference(s): DWR Levee Log, 2005. USACE					
Sacramento O&M Manual 102, April 1959, (RM 17.0) (Reclamation					
District No. 2067) steel pipe listed].					
FS Date: 4/24/2013					

Photo 1 of 2 : UCIP_SP_2018_12748_20692.jpg



Concrete distribution box on LS toe.

LM Start	3.70	Rating **	M	Issue No.	156 (cont)
LM End	3.70	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_12748_20691.jpg



Rusted out pipe visible at WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.73	Rating **	M	Issue No.	114
LM End	3.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.163163 °	38.163163 °
				-121.619370 °	-121.619370 °
DWR ID	DWR_NA0002_02_s_2016_114				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.92	Rating **	M	Issue No.	157
LM End	3.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164063 °	38.164063 °
				-121.622650 °	-121.622650 °
DWR ID					
Comment Code					
Inspector Comment					
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 irrigation pipe of an unknown material through the levee, 5.5 feet below the crown. Pump in pump house on the landside (LS). Shutoff valve in pump house on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11287, 1975 - Norman Silva). [Additional Reference(s): DWR Levee Log, 2005, 6-inch pipe listed. USACE Sacramento O&M Manual 102, April 1959, (RM 16.8) (Reclamation District No. 2067) 6-inch steel pipe listed]. FS Date: 4/24/2013					

Photo 1 of 3 : UCIP_SP_2018_12752_20699.jpg



Pipe and pumphouse on LS.

* 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**

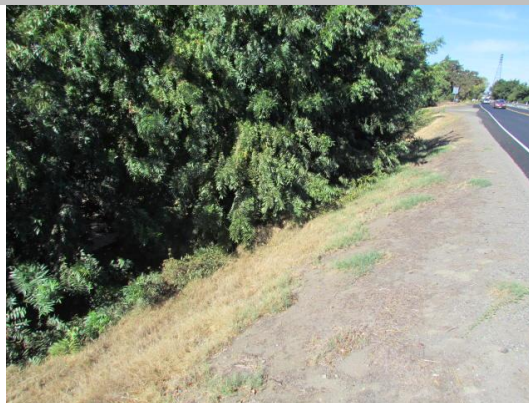
Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	3.96	Rating **	U	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree blocking landside slope and toe.					

Photo 1 of 1 : SP_2018_NA0002_63_102_20180305_00076.jpg



Looking west at dense trees on landward slope and toe.

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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_59_20180305_00055.jpg



Looking west at dense landscaping on landward slope.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

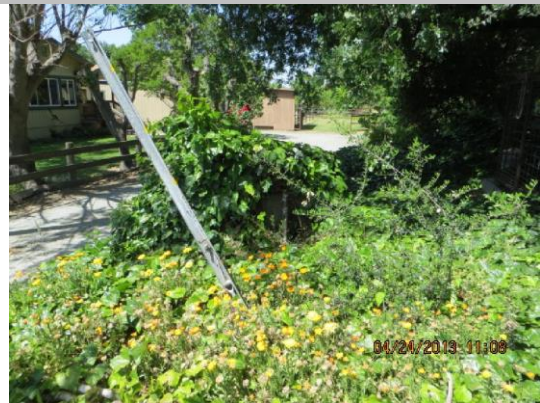
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.05	Rating **	M	Issue No.	158
LM End	4.05	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.164727 °	38.164727 °	
			-121.624869 °	-121.624869 °	
DWR ID					
Comment Code					
Inspector Comment					
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: 48-inch by 48-inch concrete tunnel of an unknown purpose through the levee, 5 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 102, April 1959, (RM 16.7) (Reclamation District No. 2067) abandoned]. FS Date: 4/24/2013					

No Photos

LM Start	4.11	Rating **	M	Issue No.	159
LM End	4.11	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.165016 °	38.165016 °	
			-121.625834 °	-121.625834 °	
DWR ID					
Comment Code					
Inspector Comment					
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 the levee, 4.2 feet below the crown. Pump on pile structure in stream. (Permit No. 787, 1939 - J. E. Silva, et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.6) (Reclamation District No. 2067)]. FS Date: 4/24/2013					

Photo 1 of 3 : UCIP_SP_2018_12768_20731.jpg



Concrete distribution box at LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.11	Rating **	M	Issue No.	159 (cont)	
LM End	4.11	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.165016 °	38.165016 °	
				-121.625834 °	-121.625834 °	
DWR ID						
Comment Code						
Inspector Comment						
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 the levee, 4.2 feet below the crown. Pump on pile structure in stream. (Permit No. 787, 1939 - J. E. Silva, et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.6) (Reclamation District No. 2067)]. FS Date: 4/24/2013						

Photo 2 of 3 : UCIP_SP_2018_12768_20730.jpg



Pipe on LS slope.

LM Start	4.11	Rating **	M	Issue No.	159 (cont)
LM End	4.11	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_12768_20729.jpg



Pipe on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.13	Rating **	M	Issue No.	85
LM End	4.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.165098 °	38.165098 °
				-121.626133 °	-121.626133 °
DWR ID	DWR_NA0002_02_s_2017_85				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	4.47	Rating **	M	Issue No.	125
LM End	4.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.167118 °	38.167118 °
				-121.631709 °	-121.631709 °
DWR ID	DWR_NA0002_02_f_2017_125				
Comment Code					
PR : Prunings					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.48	Rating **	M	Issue No.	160	
LM End	4.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.167174 °		38.167174 °
				-121.631927 °		-121.631927 °
DWR ID						
Comment Code						
Inspector Comment						
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: *ABANDONED* 2 of 2: 10-inch irrigation pipe of an unknown material through the levee, 6.6 feet below the crown. Pump in pump house on the landside (LS) slope. Pump house not visible, 4/24/2013. (Automatic Board Order (ABO) issued as Permit No. 11274, 1975 - Henry Martin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.2) (Reclamation District No. 2067) steel pipe listed]. FS Date: 4/24/2013						

LM Start	4.48	Rating **	M	Issue No.	160 (cont)
LM End	4.48	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_16010_27085.jpg



Possible portion of pumphouse visible off WS toe.

Photo 2 of 3 : UCIP_SP_2018_16010_27087.jpg



JP and meter on LS slope at location of abandoned pipe.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.48	Rating **	M	Issue No.	160 (cont)	
LM End	4.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.167174 °		38.167174 °
				-121.631927 °		-121.631927 °
DWR ID						
Comment Code						
Inspector Comment						
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: *ABANDONED* 2 of 2: 10-inch irrigation pipe of an unknown material through the levee, 6.6 feet below the crown. Pump in pump house on the landside (LS) slope. Pump house not visible, 4/24/2013. (Automatic Board Order (ABO) issued as Permit No. 11274, 1975 - Henry Martin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.2) (Reclamation District No. 2067) steel pipe listed]. FS Date: 4/24/2013						

Photo 3 of 3 : UCIP_SP_2018_16010_27086.jpg



Abandoned pipe on LS slope.

LM Start	4.70	Rating **	M	Issue No.	87
LM End	4.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.168342 °	38.168342 °
				-121.635645 °	-121.635645 °
DWR ID	DWR_NA0002_02_s_2017_87				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.70	Rating **	U	Issue No.	123
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.168348 °	38.168456 °
				-121.635726 °	-121.636125 °
DWR ID	DWR_NA0002_02_f_2016_123				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense grapevines on waterside slope.					

Photo 1 of 1 : SP_2018_NA0002_63_123_20180305_00099.jpg



Looking west at dense vines on waterward slope and toe.

LM Start	4.78	Rating **	M	Issue No.	161	
LM End	4.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.168744 °	38.168744 °	
				-121.637155 °	-121.637155 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material, sleeved through a 22-inch, sleeved through a 24-inch pipe, through the levee, 3 feet below the crown. Pump on the landside (LS). Small pump on the LS shoulder and a 7-foot by 9-foot concrete sump on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11285, 1975 - Manuel Silva). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.9) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 1 of 3 : UCIP_SP_2018_12773_20740.jpg



Small pump on LS shoulder with concrete distribution box on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.78	Rating **	M	Issue No.	161 (cont)	
LM End	4.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.168744 °		38.168744 °
				-121.637155 °		-121.637155 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material, sleeved through a 22-inch, sleeved through a 24-inch pipe, through the levee, 3 feet below the crown. Pump on the landside (LS). Small pump on the LS shoulder and a 7-foot by 9-foot concrete sump on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11285, 1975 - Manuel Silva). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.9) (Reclamation District No. 2067) steel pipe listed].						
FS Date: 5/2/2013						

LM Start	4.78	Rating **	M	Issue No.	161 (cont)
LM End	4.78	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_12773_20739.jpg



20-inch pipe sleeved through 22-inch pipe sleeved through a 24-inch steel pipe.

Photo 3 of 3 : UCIP_SP_2018_12773_20738.jpg



Pipe on LS slope with excavation in levee prism.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.83	Rating **	M	Issue No.	162	
LM End	4.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.168887 °	38.168887 °	
				-121.637957 °	-121.637957 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 3.8 feet below the crown. Pump in pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. Replaces a 10-inch pipe at approximately the same location. 32-inch concrete standpipe on the LS toe. 1.5-inch electrical conduit runs parallel to 10-inch pipe. (Permit No. 724, 1937 - California Lands, Inc., and Frank Hodapp). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.8) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

LM Start	4.83	Rating **	M	Issue No.	162 (cont)
LM End	4.83	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_12774_20745.jpg



Broken down pumphouse on WS slope.

Photo 2 of 3 : UCIP_SP_2018_12774_20744.jpg



deformed and crushed pipe with 1.5-inch electrical conduit on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	4.83	Rating **	M	Issue No.	162 (cont)	
LM End	4.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.168887 °	38.168887 °	
				-121.637957 °	-121.637957 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 3.8 feet below the crown. Pump in pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. Replaces a 10-inch pipe at approximately the same location. 32-inch concrete standpipe on the LS toe. 1.5-inch electrical conduit runs parallel to 10-inch pipe. (Permit No. 724, 1937 - California Lands, Inc., and Frank Hodapp). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.8) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 3 of 3 : UCIP_SP_2018_12774_20743.jpg



Broken Concrete standpipe on LS toe.

LM Start	4.92	Rating **	M	Issue No.	88
LM End	4.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.169262 °	38.169262 °
				-121.639497 °	-121.639497 °
DWR ID	DWR_NA0002_02_s_2017_88				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree on landside slope.					

Photo 1 of 1 : SP_2018_NA0002_63_88_20180305_00058.jpg



Looking east at dead tree 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	5.16	Rating **	U	Issue No.	95
LM End	5.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.171318 °	38.171318 °
				-121.643001 °	-121.643001 °
DWR ID	DWR_NA0002_02_f_2015_95				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_95_20180305_00067.jpg



Looking west at untrimmed trees on landward slope.

LM Start	5.23	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			38.171942 °	38.171800 °
				-121.643975 °	-121.647447 °
DWR ID	DWR_NA0002_02_s_2012_9				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

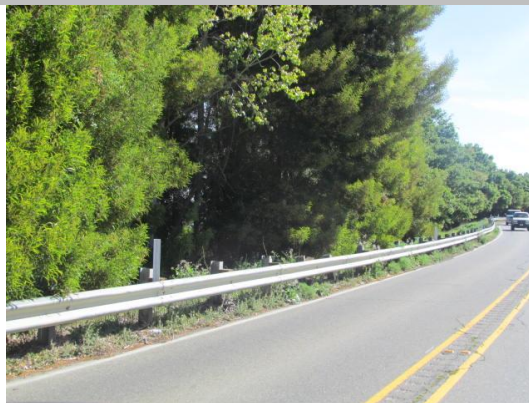
Photo 1 of 3 : SP_2018_NA0002_63_9_20180305_00012.jpg



Looking northeast at dense trees on waterside slope and toe.

LM Start	5.23	Rating **	U	Issue No.	9 (cont)
LM End	5.42	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2018_NA0002_63_9_20180305_00013.jpg



Looking east at dense trees on waterward shoulder and slope.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	5.23	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			38.171942 °		38.171800 °
				-121.643975 °		-121.647447 °
DWR ID	DWR_NA0002_02_s_2012_9					
Comment Code						
T2 : Thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						

Photo 3 of 3 : SP_2018_NA0002_63_9_20180305_00014.jpg



Looking north at dense trees on waterward should and slope.

LM Start	5.25	Rating **	M	Issue No.	124
LM End	5.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.171928 °	38.171928 °
				-121.644455 °	-121.644455 °
DWR ID	DWR_NA0002_02_f_2017_124				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	5.37	Rating **	U	Issue No.	89
LM End	5.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.171783 °	38.171783 °
				-121.646562 °	-121.646562 °
DWR ID	DWR_NA0002_02_s_2017_89				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Discard fallen tree branches and limbs on landside toe.					

Photo 1 of 1 : SP_2018_NA0002_63_89_20180305_00059.jpg



Looking east at fallen tree 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

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				
Comment Code					
FE : Fence					
Inspector Comment					
Fencing should be removed.					

Photo 1 of 1 : SP_2018_NA0002_63_56_20180305_00054.jpg



Looking at unauthorized fence on landward slope.

LM Start	5.41	Rating **	M	Issue No.	163
LM End	5.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.171824 °	38.171824 °
				-121.647265 °	-121.647265 °
DWR ID					
Comment Code					
Inspector Comment					
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 drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump in pump house on the landside (LS). 1.5-inch galvanized steel electrical conduit at same location. 4-foot by 6-foot concrete distribution box off the LS toe next to pump house. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.3) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013					

Photo 1 of 3 : UCIP_SP_2018_12776_20754.jpg



Pipe and electrical conduit on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	5.41	Rating **	M	Issue No.	163 (cont)	
LM End	5.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.171824 °	38.171824 °	
				-121.647265 °	-121.647265 °	
DWR ID						
Comment Code						
Inspector Comment						
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 drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump in pump house on the landside (LS). 1.5-inch galvanized steel electrical conduit at same location. 4-foot by 6-foot concrete distribution box off the LS toe next to pump house. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.3) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 2 of 3 : UCIP_SP_2018_12776_20753.jpg



Pump on pier at WS toe.

LM Start	5.41	Rating **	M	Issue No.	163 (cont)
LM End	5.41	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_12776_20752.jpg



Pipe under pier.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	5.58	Rating **	M	Issue No.	10
LM End	5.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172019 °	38.172238 °
				-121.650327 °	-121.651163 °
DWR ID	DWR_NA0002_02_s_2012_10				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.65	Rating **	U	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Bamboo on waterside slope.					

Photo 1 of 2 : SP_2018_NA0002_63_11_20180305_00015.jpg



Looking northwest at bamboo on waterward slope. (Fall 2016)

LM Start	5.65	Rating **	U	Issue No.	11 (cont)
LM End	5.69	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_NA0002_63_11_20180305_00016.jpg



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

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	5.66	Rating **	M	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.77	Rating **	M	Issue No.	164	
LM End	5.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.172940 °	38.172940 °	
				-121.653700 °	-121.653700 °	
DWR ID						
Comment Code						
Inspector Comment						
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: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump and gate valve in pump house at the landside (LS) toe. 1.5-inch electrical conduit along pipe at same location. 42-inch concrete standpipe at the LS toe. [Additional Reference(s): USACE Sacramento O&M Manual 102, April 1959, (RM 14.8) (Reclamation District No. 2067) steel pipe listed FS Date: 5/2/2013						

Photo 1 of 3 : UCIP_SP_2018_12778_20762.jpg



Conduit at WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	5.77	Rating **	M	Issue No.	164 (cont)	
LM End	5.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.172940 °		38.172940 °
				-121.653700 °		-121.653700 °
DWR ID						
Comment Code						
Inspector Comment						
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: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump and gate valve in pump house at the landside (LS) toe. 1.5-inch electrical conduit along pipe at same location. 42-inch concrete standpipe at the LS toe. [Additional Reference(s): USACE Sacramento O&M Manual 102, April 1959, (RM 14.8) (Reclamation District No. 2067) steel pipe listed FS Date: 5/2/2013						

LM Start	5.77	Rating **	M	Issue No.	164 (cont)
LM End	5.77	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_12778_20761.jpg



Erosion along pipe alignment at WS slope.

Photo 3 of 3 : UCIP_SP_2018_12778_20760.jpg



Concrete standpipe and pump on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	6.12	Rating **	M	Issue No.	103
LM End	6.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.174670 °	38.174670 °	
			-121.659592 °	-121.659592 °	
DWR ID	DWR_NA0002_02_f_2015_103				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	6.20	Rating **	M	Issue No.	165
LM End	6.20	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.174308 °	38.174308 °	
			-121.661105 °	-121.661105 °	
DWR ID					
Comment Code					
Inspector Comment					
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 of an unknown material or purpose through the levee, at low elevation. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/2/2013					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	6.22	Rating **	M	Issue No.	84
LM End	6.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174205 °	38.174205 °
				-121.661471 °	-121.661471 °
DWR ID	DWR_NA0002_02_f_2017_84				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on landside.					

No Photos

LM Start	6.23	Rating **	U	Issue No.	110
LM End	6.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174182 °	38.174182 °
				-121.661633 °	-121.661633 °
DWR ID	DWR_NA0002_02_s_2015_110				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree limbs on landside slope.					

Photo 1 of 1 : SP_2018_NA0002_63_110_20180305_00087.jpg



Looking northeast at fallen tree on landward slope and toe.

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				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : SP_2018_NA0002_63_50_20180305_00051.jpg



Looking southwest at dense landscaping on landward slope.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

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					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 2 of 2 : SP_2018_NA0002_63_50_20180305_00052.jpg



Looking northeast at dense landscaping on landward slope.

LM Start	6.32	Rating **	U	Issue No.	13
LM End	6.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.173697 °	38.173697 °
				-121.663082 °	-121.663082 °
DWR ID	DWR_NA0002_02_s_2017_13				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landside slope.					

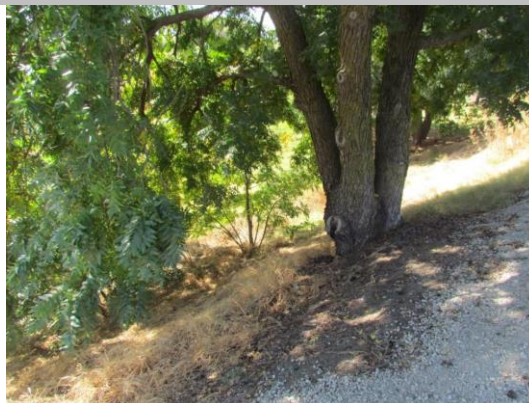
Photo 1 of 1 : SP_2018_NA0002_63_13_20180305_00019.jpg



Looking northeast at fallen tree on landward slope.

LM Start	6.36	Rating **	U	Issue No.	14
LM End	6.36	Issue Type +	Ma	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 2 : SP_2018_NA0002_63_14_20180305_00020.jpg



*** 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	6.36	Rating **	U	Issue No.	14 (cont)	
LM End	6.36	Issue Type +	Ma	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					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						

Photo 2 of 2 : SP_2018_NA0002_63_14_20180305_00021.jpg



Looking east at untrimmed tree on landward slope.

LM Start	6.98	Rating **	M	Issue No.	23
LM End	7.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.166583 °	38.165794 °
				-121.670684 °	-121.671014 °
DWR ID	DWR_NA0002_02_s_2016_23				
Comment Code					
Inspector Comment					
2011 - Large section of bank slumped off. 2015: No observed changes. [2015 Site ID: SAC_13-6_L]					

Photo 1 of 1 : SP_2018_NA0002_63_23_20180305_00028.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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.02	Rating **	U	Issue No.	166 (cont)	
LM End	7.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.165949 °	38.165949 °	
				-121.670638 °	-121.670638 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51434 DS_ID:21916 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/24/2016 same as previous inspection pipe is opened on the WS. The crossing remains "Urgent" due WS end open. Crossing appears abandoned--need to contact owner to determine status. If crossing is no longer in use owner will need to coordinate with the CVFPB to comply with Title 23. (O. Magana - DWR UCIP)05/02/2013 Pipe open on WS. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation pipe through levee 8.7 feet below crown. Pipe measures 8-inch inner diameter (ID) and 10-inch outer diameter (OD). A 5-foot by 5-foot concrete distribution box is located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (RM 13.6)]. FS Date: 10/24/2016						

Photo 3 of 3 : UCIP_SP_2018_51434_76478.jpg



View of levee crown and WS slope at pipe crossing.

LM Start	7.13	Rating **	U	Issue No.	112
LM End	7.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.164465 °	38.164465 °
				-121.671292 °	-121.671292 °
DWR ID	DWR_NA0002_02_f_2015_112				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_112_20180305_00089.jpg



Looking south at untrimmed trees on landward slope.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.26	Rating **	M	Issue No.	104
LM End	7.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162735 °	38.162735 °
				-121.672224 °	-121.672224 °
DWR ID	DWR_NA0002_02_f_2017_104				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	7.45	Rating **	M	Issue No.	167	
LM End	7.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.160387 °		38.160387 °
				-121.673972 °		-121.673972 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 7.1 feet below the crown. Pump and service pole on the landside (LS) slope. 72-inch concrete standpipe at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11293, 1975 - John Wilcox). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 13.0) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 1 of 3 : UCIP_SP_2018_12814_20821.jpg



Erosion/sinkhole over pipe on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.45	Rating **	M	Issue No.	167 (cont)	
LM End	7.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.160387 °		38.160387 °
				-121.673972 °		-121.673972 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 7.1 feet below the crown. Pump and service pole on the landside (LS) slope. 72-inch concrete standpipe at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11293, 1975 - John Wilcox). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 13.0) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

LM Start	7.45	Rating **	M	Issue No.	167 (cont)
LM End	7.45	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_12814_20820.jpg



Pipe on WS slope.

Photo 3 of 3 : UCIP_SP_2018_12814_20819.jpg



Pipe and pump on LS shoulder.

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.49	Rating **	M	Issue No.	168
LM End	7.49	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.159940 °	38.159940 °
				-121.674430 °	-121.674430 °
DWR ID					
Comment Code					
Inspector Comment					
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 of an unknown material or purpose through the levee, 7.7 feet below the crown. Inactive service pole on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/2/2013					

Photo 1 of 2 : UCIP_SP_2018_12817_20825.jpg



3.5-inch galvanized iron pipe on LS slope.

LM Start	7.49	Rating **	M	Issue No.	168 (cont)
LM End	7.49	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_12817_20824.jpg



3.5-inch galvanized iron pipe on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.57	Rating **	M	Issue No.	169	
LM End	7.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.158990 °	38.158990 °	
				-121.675374 °	-121.675374 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 4.4 feet below the 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 corrugated metal standpipe on the landside (LS) shoulder. 48-inch diameter concrete standpipe on the LS toe. (Permit Nos. 1663, 1952 - David N. Patch and 15429, 1990 - State of California Department of Transportation). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 5/2/2013						

LM Start	7.57	Rating **	M	Issue No.	169 (cont)
LM End	7.57	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_40795_20835.jpg



siphon breaker in 24-inch CMP riser on LS slope and filters at LS toe.

Photo 2 of 3 : UCIP_SP_2018_40795_20834.jpg



Filter on LS to.e

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.57	Rating **	M	Issue No.	169 (cont)	
LM End	7.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.158990 °	38.158990 °	
				-121.675374 °	-121.675374 °	
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 4.4 feet below the 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 corrugated metal standpipe on the landside (LS) shoulder. 48-inch diameter concrete standpipe on the LS toe. (Permit Nos. 1663, 1952 - David N. Patch and 15429, 1990 - State of California Department of Transportation). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/2/2013						

Photo 3 of 3 : UCIP_SP_2018_40795_20833.jpg



Hole over pipe on WS berm.

LM Start	7.71	Rating **	M	Issue No.	105
LM End	7.71	Issue Type +	Ma	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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limbs on waterside shoulder.					

Photo 1 of 1 : SP_2018_NA0002_63_105_20180305_00077.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 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.79	Rating **	M	Issue No.	98
LM End	7.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.157050 °	38.157050 °
				-121.678587 °	-121.678587 °
DWR ID	DWR_NA0002_02_s_2017_98				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Discard broken tree branches and limbs on landside slope.					

Photo 1 of 1 : SP_2018_NA0002_63_98_20180305_00071.jpg



Looking southeast at broken tree branch at landward toe.

LM Start	7.93	Rating **	M	Issue No.	170	
LM End	7.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.155494 °		38.155494 °
				-121.679988 °		-121.679988 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 3 feet below the crown. 8-inch polyvinyl chloride 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 pump house on the waterside (WS) slope. 36-inch concrete standpipe and filters on the landside (LS) toe. (Permit No. 2795, 1958 - M. B. McKinnon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/3/2013						

Photo 1 of 3 : UCIP_SP_2018_12869_20933.jpg



PVC pipe, filters, and concrete standpipe on LS.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	7.93	Rating **	M	Issue No.	170 (cont)	
LM End	7.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.155494 °		38.155494 °
				-121.679988 °		-121.679988 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 3 feet below the crown. 8-inch polyvinyl chloride 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 pump house on the waterside (WS) slope. 36-inch concrete standpipe and filters on the landside (LS) toe. (Permit No. 2795, 1958 - M. B. McKinnon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/3/2013						

LM Start	7.93	Rating **	M	Issue No.	170 (cont)
LM End	7.93	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_12869_20932.jpg



Pumphouse and pipe on WS slope.

Photo 3 of 3 : UCIP_SP_2018_12869_20931.jpg



PVC pipe sleeved through 12-inch steel pipe on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	8.15	Rating **	M	Issue No.	171	
LM End	8.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.152550 °		38.152550 °
				-121.681560 °		-121.681560 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the landside (LS) slope. Service pole and 30-inch concrete standpipe at the LS toe (Automatic Board Order (ABO) issued as Permit No. 8661, 1972 - Jesse Marks). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 12.2) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/3/2013						

LM Start	8.15	Rating **	M	Issue No.	171 (cont)
LM End	8.15	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_16143_27242.jpg



Pump and butterfly valve in pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2018_16143_27241.jpg



Pumphouse with concrete standpipe in background on LS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	8.15	Rating **	M	Issue No.	171 (cont)	
LM End	8.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.152550 °		38.152550 °
				-121.681560 °		-121.681560 °
DWR ID						
Comment Code						
Inspector Comment						
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 irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the landside (LS) slope. Service pole and 30-inch concrete standpipe at the LS toe (Automatic Board Order (ABO) issued as Permit No. 8661, 1972 - Jesse Marks). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 12.2) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/3/2013						

Photo 3 of 3 : UCIP_SP_2018_16143_27240.jpg



Pipe on WS slope.

LM Start	8.20	Rating **	U	Issue No.	17
LM End	8.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.151867 °	38.148711 °
				-121.682201 °	-121.682790 °
DWR ID	DWR_NA0002_02_s_2016_17				
Comment Code					
Inspector Comment					
2010 - Small inlet area behind a man-built spit. Bank is slumping and could possibly be fixed with maintenance. 2011 - Site continues to worsen. 2015: Upgraded to Critical [2015 Site ID: SAC_12-1_L]					

Photo 1 of 1 : SP_2018_NA0002_63_17_20180305_00024.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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	8.31	Rating **	C	Issue No.	106
LM End	8.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.150208 °	38.150208 °
				-121.682130 °	-121.682130 °
DWR ID	DWR_NA0002_02_s_2017_106				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Several fallen trees and prunings on landside slope. Tree left hole on landside slope.					

No Photos

LM Start	8.32	Rating **	C	Issue No.	44
LM End	8.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.150112 °	38.145826 °
				-121.682305 °	-121.682974 °
DWR ID	DWR_NA0002_02_s_2012_44				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense eucalyptus trees along landside slope.					

No Photos

LM Start	8.35	Rating **	C	Issue No.	111
LM End	8.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.149617 °	38.149617 °
				-121.682256 °	-121.682256 °
DWR ID	DWR_NA0002_02_f_2017_111				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landside shoulder.					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	8.40	Rating **	C	Issue No.	116
LM End	8.40	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.148997 °	38.148997 °	
			-121.682448 °	-121.682448 °	
DWR ID	DWR_NA0002_02_f_2017_116				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landside slope.					

No Photos

LM Start	8.44	Rating **	C	Issue No.	117
LM End	8.44	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.148378 °	38.148378 °	
			-121.682580 °	-121.682580 °	
DWR ID	DWR_NA0002_02_f_2017_117				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limb on waterside slope.					

No Photos

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	8.55	Rating **	M	Issue No.	172
LM End	8.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146784 °	38.146784 °
				-121.682780 °	-121.682780 °
DWR ID					
Comment Code					
Inspector Comment					
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 pipeline of an unknown material through the levee, 3 feet below the crown. Gas line marker and vent on the waterside (WS) shoulder. (Permit No. 842, 1940 - PG&E). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/3/2013					

Photo 1 of 2 : UCIP_SP_2018_12886_20946.jpg



Gasline marker and vent to right of JP.

LM Start	8.55	Rating **	M	Issue No.	172 (cont)
LM End	8.55	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_12886_20945.jpg



Gasline marker and vent to right of JP.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	8.65	Rating **	C	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	8.90	Rating **	C	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	8.96	Rating **	U	Issue No.	19
LM End	9.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.141399 °	38.138158 °
				-121.685346 °	-121.686531 °
DWR ID	DWR_NA0002_02_s_2016_19				
Comment Code					
Inspector Comment					
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. 2015: Road foundation and cables exposed. Extremely large tree with exposed roots looks likely to fail and take out a significant portion of the levee. [2015 Site ID: SAC_11-2_L]					

Photo 1 of 1 : SP_2018_NA0002_63_19_20180305_00025.jpg



USACE 2013 Photo #1

LM Start	9.02	Rating **	M	Issue No.	173
LM End	9.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.140391 °	38.140391 °
				-121.685266 °	-121.685266 °
DWR ID					
Comment Code					
Inspector Comment					
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 steel irrigation pipe through the levee, 2 feet below the crown. Pump on the waterside (WS). Concrete riser unit on the landside (LS). (Permit No. 16014, 1993 - Dorothy Funez). FS Date: 5/3/2013					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	9.02	Rating **	M	Issue No.	174
LM End	9.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.140391 °	38.140391 °
				-121.685266 °	-121.685266 °
DWR ID					
Comment Code					
Inspector Comment					
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 of an unknown size					
or material through the levee, 2 feet below the crown. Pump on the					
waterside (WS). Concrete riser unit on the landside (LS). (Permit No.					
16014, 1993 - Dorothy Funez).					
FS Date: 5/3/2013					

No Photos

LM Start	9.24	Rating **	M	Issue No.	118
LM End	9.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.137189 °	38.136837 °
				-121.686302 °	-121.686273 °
DWR ID	DWR_NA0002_02_f_2017_118				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	9.27	Rating **	M	Issue No.	122
LM End	9.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.136814 °	38.136499 °
				-121.686181 °	-121.686162 °
DWR ID	DWR_NA0002_02_f_2017_122				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	9.36	Rating **	M	Issue No.	175
LM End	9.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.135584 °	38.135584 °
				-121.686108 °	-121.686108 °
DWR ID					
Comment Code					
Inspector Comment					
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 corrugated metal riser unit on the landside (LS) shoulder. 9-foot by 5-foot concrete box with slide gate off LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 10.9) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/3/2013					

Photo 1 of 3 : UCIP_SP_2018_40528_21002.jpg



Pipe on WS 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	9.36	Rating **	M	Issue No.	175 (cont)	
LM End	9.36	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.135584 °		38.135584 °
				-121.686108 °		-121.686108 °
DWR ID						
Comment Code						
Inspector Comment						
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 corrugated metal riser unit on the landside (LS) shoulder. 9-foot by 5-foot concrete box with slide gate off LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 10.9) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/3/2013						

LM Start	9.36	Rating **	M	Issue No.	175 (cont)
LM End	9.36	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_40528_21001.jpg



18-inch CMP with 12-inch irrigation pipe sleeved through it.

Photo 3 of 3 : UCIP_SP_2018_40528_21000.jpg



Standpipe and concrete box at LS.

* 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	9.39	Rating **	M	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	9.50	Rating **	M	Issue No.	176
LM End	9.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.133512 °	38.133512 °
				-121.685948 °	-121.685948 °
DWR ID					
Comment Code					
Inspector Comment					
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: Gas line markers on the landside (LS) toe and waterside (WS) shoulder.					
FS Date: 5/3/2013					

Photo 1 of 2 : UCIP_SP_2018_16146_27251.jpg



Gasline Marker on WS shoulder

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

Levee Inspection Report By Mile - Spring 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	9.50	Rating **	M	Issue No.	176 (cont)	
LM End	9.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.133512 °		38.133512 °
				-121.685948 °		-121.685948 °
DWR ID						
Comment Code						
Inspector Comment						
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: Gas line markers on the landside (LS) toe and						
waterside (WS) shoulder.						
FS Date: 5/3/2013						

Photo 2 of 2 : UCIP_SP_2018_16146_27250.jpg



Gasline Marker on LS shoulder

LM Start	9.58	Rating **	U	Issue No.	16	
LM End	9.71	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.132361 °		38.130537 °
				-121.686173 °		-121.686737 °
DWR ID	DWR_NA0002_02_s_2012_16					
Comment Code						
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Untrimmed trees within twenty foot zone on waterside slope.						

Photo 1 of 2 : SP_2018_NA0002_63_16_20180305_00022.jpg



Looking south at dense vegetation (trees) 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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	9.58	Rating **	U	Issue No.	16 (cont)	
LM End	9.71	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.132361 °		38.130537 °
				-121.686173 °		-121.686737 °
DWR ID	DWR_NA0002_02_s_2012_16					
Comment Code						
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Untrimmed trees within twenty foot zone on waterside slope.						

Photo 2 of 2 : SP_2018_NA0002_63_16_20180305_00023.jpg



Looking north at dense vegetation (trees) on waterward slope.

LM Start	9.78	Rating **	M	Issue No.	21
LM End	9.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.129722 °	38.127672 °
				-121.687468 °	-121.688646 °
DWR ID	DWR_NA0002_02_s_2016_21				
Comment Code					
Inspector Comment					
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. 2015: No observed changes. [2015 Site ID: SAC_10-8_L]					

Photo 1 of 1 : SP_2018_NA0002_63_21_20180305_00027.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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	10.26	Rating **	U	Issue No.	107
LM End	11.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.123119 °	38.112414 °
				-121.690488 °	-121.697904 °
DWR ID	DWR_NA0002_02_f_2014_107				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation on waterside slope.					

Photo 1 of 2 : SP_2018_NA0002_63_107_20180305_00082.jpg



Looking south at bamboo and other vegetation on waterward slope. (Fall 2016)

LM Start	10.26	Rating **	U	Issue No.	107 (cont)
LM End	11.10	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_NA0002_63_107_20180305_00083.jpg



Looking south at dense vegetation on waterward slope. (Fall 2015)

LM Start	10.28	Rating **	C	Issue No.	113
LM End	10.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.122904 °	38.122904 °
				-121.690819 °	-121.690819 °
DWR ID	DWR_NA0002_02_f_2015_113				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Bank erosion on waterside shoulder greater than 3" depth but less than 3' in length.					

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 2018

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/05/2018 04/05/2018	Keith Millard

LM Start	10.74	Rating **	M	Issue No.	119
LM End	10.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.116906 °	38.116906 °
				-121.694595 °	-121.694595 °
DWR ID	DWR_NA0002_02_f_2017_119				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0002_63_119_20180305_00097.jpg



Looking northwest at the waterside slope.

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