

**Flood Control Project Maintenance
Levee Inspections**

**Fall 2013 Levee Maintenance Deficiency Summary Report
Overall LMA & Unit Ratings, including USACE Erosion Survey**

Sacramento River Basin

NA0005 City of Sacramento	Overall LMA Rating	Total LMA Miles						
	A	3.63						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.02			
<i>Supplemental</i>								
USACE Erosion Survey	0.12		0.12	3.31%				
DWR UCIP Field Study					0.11	0.06		
<i>LMA Totals:</i>	0.12	0.00	0.12	3.31%	0.13	0.06	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2013 Levee Inspection Results**

City of Sacramento

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet
Fall 2013 Levee Inspection Results
City of Sacramento**

Waterway	Bank	Unit Miles
Unit No. 01 City of Sacramento	Left	3.63

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	-		10/18/2013 - 10/18/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Doug Henery City of Sacramento		Doug Henery City of Sacramento	
	Jeff Chase City of Sacramento		Jeff Chase City of Sacramento	
	William Roberts City of Sacramento		William Roberts City of Sacramento	

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Earthen Levee	Operations & Maintenance Manuals	CR	A Ma				20
DWR ID: DWR_NA0005_01_s_2013_20										
2			Earthen Levee	Emergency Supplies & Equipment	CR	A Ma				22
DWR ID: DWR_NA0005_01_s_2013_22										
3			Earthen Levee	Flood Preparedness & Training	CR	A Ma				23
DWR ID: DWR_NA0005_01_s_2013_23										
4	0.06	0.06	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:9666 EP_NO: 14527 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine condition of crossing and last inspection date FIELD_STRUCT_DESC: 12-inch diameter pipeline under channel through levee, 44 feet below the crown. Southern Pacific Pipe Lines. (Permit No. 14527, Southern Pacific Pipelines, Inc.-1987). FS Date: 3/6/2013	38.589864 ° -121.505128 °	38.589864 ° -121.505128 °	24 Y
DWR ID: DWR_NA0005_01_f_2013_24										
5	0.14	0.14	Earthen Levee	Encroachments	WSA/W	BU : Building En	Inspector Comments: Fenced area around State (DWR) recorder can.	38.588715 ° -121.504885 °	38.588715 ° -121.504885 °	1 Y
DWR ID: DWR_NA0005_01_s_2012_1										
6	0.22	0.22	Earthen Levee	Encroachments	WSA/W	BU : Building En	Inspector Comments: Historical building.	38.587592 ° -121.504892 °	38.587592 ° -121.504892 °	2 Y
DWR ID: DWR_NA0005_01_s_2012_2										
7	0.37	0.73	Earthen Levee	Encroachments	CR A/W	BU : Building Ob	Inspector Comments: This is the Old Sacramento flood wall. This part is a walking inspection.	38.585525 ° -121.505338 °	38.580445 ° -121.506966 °	14 Y
DWR ID: DWR_NA0005_01_s_2012_14										
8	0.42	0.42	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:9685 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only manhole was visible; need to determine condition of crossing; Will need to follow up with the City of Sacramento. FIELD_STRUCT_DESC: 18-inch-diameter storm drain through the levee, 5 feet below the crown. Concrete surge box on the waterward side of the retaining wall. Concrete box spillway. FS Date: 3/6/2013	38.584785 ° -121.505549 °	38.584785 ° -121.505549 °	25
DWR ID: DWR_NA0005_01_f_2013_25										

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

9	0.42	0.42	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9684 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only manhole was visible; need to determine condition of crossing; Will need to follow up with the City of Sacramento. FIELD_STRUCT_DESC: 18-inch-diameter storm drain through the levee, 5 feet below the crown. Concrete surge box on the waterward side of the retaining wall. Concrete box spillway. FS Date: 3/6/2013	38.584785 °	38.584785 °	26	
								-121.505549 °	-121.505549 °		
								DWR ID: DWR_NA0005_01_f_2013_26			

10	0.42	0.42	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9686 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only manhole was visible; need to determine condition of crossing; Will need to follow up with the City of Sacramento. FIELD_STRUCT_DESC: 18-inch-diameter storm drain through the levee, 5 feet below the crown. Concrete surge box on the waterward side of the retaining wall. Concrete box spillway. FS Date: 3/6/2013	38.584755 °	38.584755 °	27	
								-121.505559 °	-121.505559 °	Y	
								DWR ID: DWR_NA0005_01_f_2013_27			

11	0.78	0.78	Earthen Levee	Encroachments	CR A/W	BU : Building En	Inspector Comments: Embassy Suites	38.579712 °	38.579712 °	4	
								-121.507347 °	-121.507347 °	Y	
								DWR ID: DWR_NA0005_01_s_2012_4			

12	1.15	1.69	Earthen Levee	Vegetation	WSA/W	V7 : Trees / Woody Vegetation Ma		38.574780 °	38.568757 °	13	
								-121.510191 °	-121.515930 °	Y	
								DWR ID: DWR_NA0005_01_f_2012_13			

13	1.23	1.23	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9727 EP_NO: 5140 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine more details pertaining to crossing, coordinate with City of Sacramento. FIELD_STRUCT_DESC: 30-inch diameter condensing water pipe sleeved through 40-inch diameter pipe 5 feet below the crown, annular space grouted. Anchor blocks on both ends, concrete pipes under pads over pipe under railroad. Cap on the waterward end. A 1.5 foot thick by 8 foot high by 8 foot wide reinforced concrete headwall supported on a 2 foot thick by 5.5 foot wide by 12 foot long concrete footing. An 8 foot high by 64 foot wide apron constructed around the waterward end of the pipe at the waterward shoulder of the levee. (Permit No. 5140, State of California-Department of General Services-1967) FS Date: 3/6/2013	38.573981 °	38.573981 °	28	
								-121.510948 °	-121.510948 °		
								DWR ID: DWR_NA0005_01_f_2013_28			

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	1.23	1.23	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9742 EP_NO: 5140 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine more details pertaining to crossing, coordinate with City of Sacramento. FIELD_STRUCT_DESC: 30-inch diameter condensing water pipe sleeved through 40-inch diameter pipe 5 feet below the crown, annular space grouted. Anchor blocks on both ends, concrete pipes under pads over pipe under railroad. Cap on the waterward end. A 1.5 foot thick by 8 foot high by 8 foot wide reinforced concrete headwall supported on a 2 foot thick by 5.5 foot wide by 12 foot long concrete footing. An 8 foot high by 64 foot wide apron constructed around the waterward end of the pipe at the waterward shoulder of the levee. (Permit No. 5140, State of California-Department of General Services-1967) FS Date: 3/6/2013	38.573981 ° -121.510948 °	38.573981 ° -121.510948 °	29 Y
DWR ID: DWR_NA0005_01_f_2013_29										
15	1.32	1.39	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011 - One new tree has fallen. 2012: No observed change. [2012 Site ID: SAC_58-5_L]	38.573069 ° -121.512166 °	38.572277 ° -121.513063 °	11 Y
DWR ID:										
16	1.35	1.35	Earthen Levee	Encroachments	CR A/W	En	EQ : Equipment Inspector Comments: The two box cars have now replace the sheds. Since the last inspection two more box cars have been added. The total is four now.	38.572587 ° -121.512383 °	38.572587 ° -121.512383 °	3 Y
DWR ID: DWR_NA0005_01_s_2012_3										
17	1.41	1.41	Earthen Levee	Encroachments	WS A/W	En	PI : Pipe	38.572008 ° -121.513017 °	38.572008 ° -121.513017 °	5 Y
DWR ID: DWR_NA0005_01_s_2012_5										
18	1.41	1.41	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9743 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Significant subsidence located on LS berm, unable to tell whether damage is associated with crossing. Issue has been provided to inspector for reporting purposes. FIELD_STRUCT_DESC: 3 of 3: 72-inch sewer line through the levee at low elevation. Slide gate in concrete well on the waterward slope. FS Date: 3/6/2013	38.572018 ° -121.513081 °	38.572018 ° -121.513081 °	30
DWR ID: DWR_NA0005_01_f_2013_30										

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

19	1.41	1.41	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9746 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Significant subsidence located on LS berm, unable to tell whether damage is associated with crossing. Issue has been provided to inspector for reporting purposes. FIELD_STRUCT_DESC: 3 of 3: 72-inch sewer line through the levee at low elevation. Slide gate in concrete well on the waterward slope. Manhole located on landward berm. FS Date: 3/6/2013	38.572018 ° -121.513081 °	38.572018 ° -121.513081 °	31 Y
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DWR ID: DWR_NA0005_01_f_2013_31

20	1.41	1.41	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9732 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Significant subsidence located on LS berm, unable to tell whether damage is associated with crossing. Issue has been provided to inspector for reporting purposes. FIELD_STRUCT_DESC: 3 of 3: 72-inch sewer line through the levee at low elevation. Slide gate in concrete well on the waterward slope. FS Date: 3/6/2013	38.572018 ° -121.513081 °	38.572018 ° -121.513081 °	32
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DWR ID: DWR_NA0005_01_f_2013_32

21	1.41	1.41	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9733 EP_NO: N/A Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to coordinate with City of Sacramento to determine if crossing is active. Urgent was issued for this crossing due to the subsidence evident on landward berm. FIELD_STRUCT_DESC: 2 of 3: 8-inch cast iron pipe through levee, 8 feet below the crown. FS Date: 3/6/2013	38.571976 ° -121.513060 °	38.571976 ° -121.513060 °	33
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DWR ID: DWR_NA0005_01_f_2013_33

22	1.41	1.41	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9734 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Significant subsidence located on LS berm, unable to tell whether damage is associated with crossing. Issue has been provided to inspector for reporting purposes. FIELD_STRUCT_DESC: 3 of 3: 72-inch sewer line through the levee at low elevation. Slide gate in concrete well on the waterward slope. FS Date: 3/6/2013	38.572018 ° -121.513081 °	38.572018 ° -121.513081 °	34
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DWR ID: DWR_NA0005_01_f_2013_34

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
23	1.41	1.41	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9735 EP_NO: N/A Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to coordinate with City of Sacramento to determine if crossing is active. Urgent was issued for this crossing due to the subsidence evident on landward berm. FIELD_STRUCT_DESC: 2 of 3: 8-inch cast iron pipe through levee, 8 feet below the crown. FS Date: 3/6/2013	38.571976 ° -121.513060 °	38.571976 ° -121.513060 °	35
DWR ID: DWR_NA0005_01_f_2013_35										
24	1.41	1.41	Earthen Levee	Erosion / Bank Caving	LS	C Ma	E1 : Note and monitor erosion site. Inspector Comments: Area on landside easement has settled around what appears to be pipe.	38.571945 ° -121.513092 °	38.571945 ° -121.513092 °	15
DWR ID: DWR_NA0005_01_s_2013_15										
25	1.43	1.43	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9751 EP_NO: 12196 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Vault located on levee crown (bike path) and siphon breaker located on waterward shoulder. Coordinate with City of Sacramento to determine the condition of this crossing and last inspection. FIELD_STRUCT_DESC: 2 or 2: 42-inch RCP wash water intake pipe through levee at approximately 10 feet below crown. Line extends approximately 145 feet waterward from the reservoir to the outfall structure at the waterward shoulder of the levee. Pipe is skewed approximately 12 degrees upstream. Water Intake structure with screen. Waterward slope is armored by rock slope protection. Rock slope protection perimeter exists at river intake. (Permit No. 12196, Sacramento Regional County Sanitation District-1981). Permit 16611 was issued in 1996 to reline the inside of the pipe. FS Date: 3/6/2013	38.571790 ° -121.513323 °	38.571790 ° -121.513323 °	36 Y
DWR ID: DWR_NA0005_01_f_2013_36										

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

26	1.43	1.43	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9749 EP_NO: 12196 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Vault located on levee crown (bike path) and siphon breaker located on waterward shoulder. Coordinate with City of Sacramento to determine the condition of this crossing and last inspection. FIELD_STRUCT_DESC: 2 or 2: 42-inch RCP wash water intake pipe through levee at approximately 10 feet below crown. Line extends approximately 145 feet waterward from the reservoir to the outfall structure at the waterward shoulder of the levee. Pipe is skewed approximately 12 degrees upstream. Water Intake structure with screen. Waterward slope is armored by rock slope protection. Rock slope protection perimeter exists at river intake. (Permit No. 12196, Sacramento Regional County Sanitation District-1981). Permit 16611 was issued in 1996 to reline the inside of the pipe. FS Date: 3/6/2013	38.571790 °	38.571790 °	37
								-121.513323 °	-121.513323 °	

DWR ID: DWR_NA0005_01_f_2013_37

27	1.43	1.43	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9748 EP_NO: 12196 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Vault located on levee crown (bike path) and siphon breaker located on waterward shoulder. Coordinate with City of Sacramento to determine the condition of this crossing and last inspection. FIELD_STRUCT_DESC: 2 or 2: 42-inch RCP wash water intake pipe through levee at approximately 10 feet below crown. Line extends approximately 145 feet waterward from the reservoir to the outfall structure at the waterward shoulder of the levee. Pipe is skewed approximately 12 degrees upstream. Water Intake structure with screen. Waterward slope is armored by rock slope protection. Rock slope protection perimeter exists at river intake. (Permit No. 12196, Sacramento Regional County Sanitation District-1981). Permit 16611 was issued in 1996 to reline the inside of the pipe. FS Date: 3/6/2013	38.571771 °	38.571771 °	38
								-121.513318 °	-121.513318 °	

DWR ID: DWR_NA0005_01_f_2013_38

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
28	1.43	1.43	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:9747 EP_NO: 12196 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Check with City of Sacramento to determine last inspection and condition of crossing. Vegetation on waterward and landward slope makes it difficult to inspect and identify any potential leaks visible from surface. FIELD_STRUCT_DESC: 1 of 2: 120-inch RCP outfall pipe extends approximately 117 feet waterward from the reservoir to a reinforced concrete outfall valve structure located in the levee crown. Waterward slope is armored by rock slope protection. Rock slope protection perimeter exists at outlet. (Permit No. 12196, Sacramento Regional County Sanitation District-1977). (Permit No. 12196, Sacramento Regional Sanitation District-1981). FS Date: 3/6/2013	38.571771 ° -121.513318 °	38.571771 ° -121.513318 °	39
DWR ID: DWR_NA0005_01_f_2013_39										
29	1.43	1.43	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:9750 EP_NO: 12196 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Check with City of Sacramento to determine last inspection and condition of crossing. Vegetation on waterward and landward slope makes it difficult to inspect and identify any potential leaks visible from surface. FIELD_STRUCT_DESC: 1 of 2: 120-inch RCP outfall pipe extends approximately 117 feet waterward from the reservoir to a reinforced concrete outfall valve structure located in the levee crown. Waterward slope is armored by rock slope protection. Rock slope protection perimeter exists at outlet. (Permit No. 12196, Sacramento Regional County Sanitation District-1977). (Permit No. 12196, Sacramento Regional Sanitation District-1981). FS Date: 3/6/2013	38.571776 ° -121.513364 °	38.571776 ° -121.513364 °	40 Y
DWR ID: DWR_NA0005_01_f_2013_40										
30	1.47	1.47	Earthen Levee	Encroachments	CR	M En	DE : Debris	38.571385 ° -121.513848 °	38.571385 ° -121.513848 °	41 Y
DWR ID: DWR_NA0005_01_f_2013_41										
31	1.73	1.96	Earthen Levee	Encroachments	CRA/W	En	EQ : Equipment Inspector Comments: Levee is oversized with railroad tracks and paved parking. This area is Miller Park.	38.568172 ° -121.516042 °	38.564882 ° -121.516265 °	6 Y
DWR ID: DWR_NA0005_01_s_2012_6										
32	1.75	1.75	Earthen Levee	Encroachments	CRA/W	Ma	PI : Pipe	38.567821 ° -121.516091 °	38.567821 ° -121.516091 °	144 Y
DWR ID: DWR_NA0005_01_s_2012_144										

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector		
Unit No. 01 City of Sacramento				Left	3.63	10/18/2013 10/18/2013	John Williamson		
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
33	1.96	2.34	Earthen Levee	Encroachments	CR A/W En	EQ : Equipment Inspector Comments: Railroad tracks run on crown of levee, paved roadway runs along toe on waterside. This is Miller Park Marina area.	38.564900 ° -121.516253 °	38.559460 ° -121.515085 °	7 Y
							DWR ID: DWR_NA0005_01_s_2012_7		
34	2.04	2.04	Earthen Levee	Encroachments	CR A/W Ma	PI : Pipe Inspector Comments: The pipe has been repaired by the LMA. The pipe was installed by the Railroad Museum and is in talks with the CVFPB. No permit was issued for them.	38.563720 ° 38.563720 °	-121.515890 ° -121.515890 °	145 Y
							DWR ID: DWR_NA0005_01_s_2012_145		
35	2.40	2.40	Earthen Levee	Encroachments	LS C En	DE : Debris	38.558632 ° -121.514543 °	38.558632 ° -121.514543 °	17 Y
							DWR ID: DWR_NA0005_01_s_2013_17		
36	2.45	2.45	Earthen Levee	Vegetation	LS A/W Ma	V4 : Elderberries are blocking visibility and flood fight capability.	38.557937 ° -121.514237 °	38.557937 ° -121.514237 °	8 Y
							DWR ID: DWR_NA0005_01_s_2012_8		
37	2.46	2.76	Earthen Levee	Vegetation	WSA/W Ma	V8 : Environmental Requirements.	38.557828 ° -121.514193 °	38.553710 ° -121.512863 °	21 Y
							DWR ID: DWR_NA0005_01_s_2012_21		
38	2.84	2.89	Supplemental	USACE Erosion Survey	WS M Ma	Inspector Comments: 1997 - Erosion at pump station, concrete debris and plastic showing. 2000 - Separation scour of bank due to poor transition. 2004 - New large tree pop out; city dumped fill dirt/rock into hole. 2006 - Minor new erosion at top of bank. 2010 - Some new rock placed in tree pop-out. 2011 - A large tree has fallen and flood fighting was performed by the city on the upper levee slope. 2012: No observed change. [2012 Site ID: SAC_56-6_L]	38.552268 ° -121.512590 °	38.551578 ° -121.512336 °	12 Y
							DWR ID:		
39	2.89	2.89	Earthen Levee	Encroachments	LS C En	DE : Debris	38.551938 ° -121.511952 °	38.551938 ° -121.511952 °	18 Y
							DWR ID: DWR_NA0005_01_s_2013_18		
40	2.90	2.90	Earthen Levee	Encroachments	CR A/W En	BU : Building	38.551810 ° -121.511838 °	38.551810 ° -121.511838 °	10 Y
							DWR ID: DWR_NA0005_01_s_2012_10		
41	2.96	2.96	Earthen Levee	Erosion / Bank Caving	WS C Ma	E1 : Note and monitor erosion site.	38.551052 ° -121.511668 °	38.551052 ° -121.511668 °	19 Y
							DWR ID: DWR_NA0005_01_s_2013_19		
42	3.22	3.22	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	38.547353 ° -121.510253 °	38.547353 ° -121.510253 °	16 Y
							DWR ID: DWR_NA0005_01_f_2012_16		
43	3.29	3.29	Earthen Levee	Encroachments	CR M En	EQ : Equipment	38.546302 ° -121.510197 °	38.546302 ° -121.510197 °	9 Y
							DWR ID: DWR_NA0005_01_f_2013_9		

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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
View of levee crown at crossing--sign visible on landward side near freeway underpass.	
UCIP_12178.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.14
End Levee Mile	0.14
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of the I Street recorder can.	
johngw_f_20130924_952.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Historical Building with foundations and ramps on upstream and downstream sides. Fall 2011	
johngw_f_20130924_953.jpg	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	6
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A view of the south side of the building. Fall 2011	
johngw_f_20130924_954.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.37
End Levee Mile	0.73
Location	Crown
Category	Earthen Levee
Item	Encroachments
Photo looking downstream from the Delta King in Old Sacramento.	
johngw_f_20130924_972.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.37
End Levee Mile	0.73
Location	Crown
Category	Earthen Levee
Item	Encroachments
The wooden boardwalk in Old Sacramento on top of the flood wall. Fall 2011	
johngw_f_20130924_973.jpg	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	7
Start Levee Mile	0.37
End Levee Mile	0.73
Location	Crown
Category	Earthen Levee
Item	Encroachments
The buildings are on top of the flood wall and extend out over the river. Fall 2011	
johngw_f_20130924_974.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.42
End Levee Mile	0.42
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study
View of landward side close to railroad museum.	
UCIP_12212.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Crown
Category	Earthen Levee
Item	Encroachments
Embassy Suites	
johngw_f_20130924_957.jpg	



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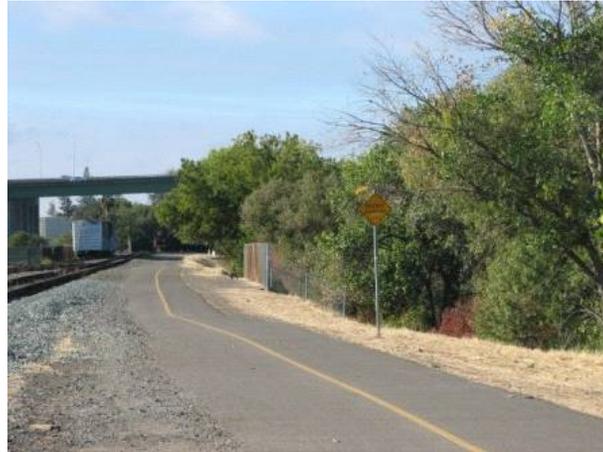
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	12
Start Levee Mile	1.15
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Trees and brush are larger then 2 inches but does not effect visibility. Photo fall 2012.	
johngw_f_20130924_971.jpg	



Levee Mile Report Line	12
Start Levee Mile	1.15
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Monitor the trees and woody vegetation along the rivers edge. Fall 2013	
johngw_f_20131021_165.JPG	



Levee Mile Report Line	12
Start Levee Mile	1.15
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Monitor the trees and vegetation along the rivers edge. Fall 2013	
johngw_f_20131021_166.JPG	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	14
Start Levee Mile	1.23
End Levee Mile	1.23
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
Headwall with 1 crossing capped off.	
UCIP_12181.jpg	



Levee Mile Report Line	15
Start Levee Mile	1.32
End Levee Mile	1.39
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2013_SAC_58-5_L_1.jpg	



Levee Mile Report Line	15
Start Levee Mile	1.32
End Levee Mile	1.39
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2013_SAC_58-5_L_2.jpg	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	15
Start Levee Mile	1.32
End Levee Mile	1.39
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2013_SAC_58-5_L_3.jpg	



Levee Mile Report Line	16
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Crown
Category	Earthen Levee
Item	Encroachments
The number of box cars are the same and still in the same location Spring 2013	
johngw_f_20130924_956.JPG	



Levee Mile Report Line	16
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking upstream at the train cars. Fall 2013	
johngw_f_20131021_167.JPG	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	16
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking downstream at ht e trains parked on the crown. A total of 8 cars are there now. Fall 2013	
johngw_f_20131021_168.JPG	



Levee Mile Report Line	17
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments
The screw gate is the positive closure for the pipe. Fall 2011	
johngw_f_20130924_958.jpg	



Levee Mile Report Line	19
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
View of landward side--tall grass along slope limit inspection.	
UCIP_12184.jpg	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	25
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study
Walkway present on waterward shoulder.	
UCIP_12187.jpg	



Levee Mile Report Line	29
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study
View of landward side--fenced area, walkway, and bldg structure on landward toe.	
UCIP_12195.jpg	



Levee Mile Report Line	30
Start Levee Mile	1.47
End Levee Mile	1.47
Location	Crown
Category	Earthen Levee
Item	Encroachments
Railroad ties are left on the crown of the levee. Fall 2013	
johngw_f_20131021_169.JPG	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	31
Start Levee Mile	1.73
End Levee Mile	1.96
Location	Crown
Category	Earthen Levee
Item	Encroachments
Miller Park at Broadway, railroad track and parking area on levee.	
johngw_f_20130924_959.jpg	



Levee Mile Report Line	32
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Crown
Category	Earthen Levee
Item	Encroachments
A pipe on the landside shoulder crosses under the railroad tracks. Fall 2011	
johngw_f_20130924_983.jpg	



Levee Mile Report Line	32
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Crown
Category	Earthen Levee
Item	Encroachments
This appears to be a drain pipe under a driveway. It is a different pipe then the other photo for this issue. Fall 2011	
johngw_f_20130924_984.jpg	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	33
Start Levee Mile	1.96
End Levee Mile	2.34
Location	Crown
Category	Earthen Levee
Item	Encroachments
<p>Railroad tracks are on levee crown. The street is to the boat ramp.</p>	
<p>johngw_f_20130924_960.jpg</p>	



Levee Mile Report Line	33
Start Levee Mile	1.96
End Levee Mile	2.34
Location	Crown
Category	Earthen Levee
Item	Encroachments
<p>The railroad cars remain on the levee crown. Spring 2013</p>	
<p>johngw_f_20130924_961.JPG</p>	



Levee Mile Report Line	34
Start Levee Mile	2.04
End Levee Mile	2.04
Location	Crown
Category	Earthen Levee
Item	Encroachments
<p>The pipe is a french drain under the railroad tracks. Was in the USACE report has not been resolved. Photo fall 2012.</p>	
<p>johngw_f_20130924_985.jpg</p>	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	37
Start Levee Mile	2.46
End Levee Mile	2.76
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This area is a revegetation site, photo taken spring 2012.

johngw_f_20130924_981.jpg



Levee Mile Report Line	37
Start Levee Mile	2.46
End Levee Mile	2.76
Location	Water Side
Category	Earthen Levee
Item	Vegetation

A photo of the revegetation site taken spring 2012.

johngw_f_20130924_982.jpg



Levee Mile Report Line	38
Start Levee Mile	2.84
End Levee Mile	2.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_56-6_L_1.jpg



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	38
Start Levee Mile	2.84
End Levee Mile	2.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2013_SAC_56-6_L_2.jpg	



Levee Mile Report Line	38
Start Levee Mile	2.84
End Levee Mile	2.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2013_SAC_56-6_L_3.jpg	



Levee Mile Report Line	40
Start Levee Mile	2.90
End Levee Mile	2.90
Location	Crown
Category	Earthen Levee
Item	Encroachments
City of Sacramento pump station on the waterside of the crown of the levee.	
johngw_f_20130924_964.jpg	



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

Levee Inspection Report By Mile - Fall 2013

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	10/18/2013 10/18/2013	John Williamson

Levee Mile Report Line	42
Start Levee Mile	3.22
End Levee Mile	3.22
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

There are several tree stumps in this area. The district have been monitoring and spraying the stumps. Photo fall 2012.

johngw_f_20130924_976.jpg



Levee Mile Report Line	43
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Crown
Category	Earthen Levee
Item	Encroachments

Trains cars are stored on the crown of the levee. Fall 2013

johngw_f_20131021_170.JPG



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